Brooklyn College

Bulletin

Division of Graduate Studies
2008 - 2009
Division of Graduate Studies
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‘Nil sine magno labore’
The Brooklyn College seal contains the Latin inscription Nil sine magno labore. This phrase means "Nothing without great effort,” a reminder that nothing can be achieved without hard work. This motto symbolizes the dedication and achievement that have always been the hallmark of Brooklyn College students.

Student responsibility
In accepting admission, students assume responsibility for knowing and complying with the regulations and procedures set forth in this Bulletin and in subsequent ones, as appropriate.

Nota bene
This issue of the Graduate Bulletin is published for one year. Students should read the Schedule of Classes and check the online version of this Bulletin each term for the College calendar, changes in College requirements, new course offerings, and other announcements.

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 City University of New York regrets any inconvenience this may cause.

Students are advised to consult regularly with College and department counselors concerning their programs of study.
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About Brooklyn College

Brooklyn College is a constituent part of the City University of New York (CUNY), the nation's leading public urban university. The University comprises eleven senior colleges, six community colleges, the William E. Macaulay Honors College, the Graduate School and University Center, the Graduate School of Journalism, the School of Law at Queens College, the School of Professional Studies, and the Sophie Davis School of Biomedical Education. More than 250,000 students are enrolled at campuses throughout the five boroughs of New York City.

Brooklyn College mission

Brooklyn College’s mission statement embodies the College’s values, mirrors its characteristics, and affirms its basic purposes:

- Brooklyn College provides a superior education in the arts and sciences. Its students will become independent and critical thinkers, skilled communicators, culturally and scientifically literate, and oriented to innovation. Its graduates will be marked by a sense of personal and social responsibility, the knowledge and talents to live in a globally interdependent world, and the confidence to assume leadership roles.

- Brooklyn College encourages and supports its faculty to thrive as high-achieving teacher-scholars, as proficient in their research as in their mentorship of students. It esteems the loyalty and commitment of its staff.

- Together, the Brooklyn College faculty, students, and staff reach out to, work with, and serve their communities.

Brooklyn College today

Brooklyn College is an innovative liberal arts college that awards undergraduate and graduate degrees. From its founding in 1930, the College has offered men and women—many of them immigrants or the children of immigrants, and many of them the first in their families to go to college—an affordable, first-rate education that allows them to build richer lives and productive careers. The Princeton Review ranked Brooklyn College as one of “America’s best value colleges” for the past four consecutive years and, in The Best 345 Colleges (2003), ranked it first in the nation for the beauty of its campus. Brooklyn College is in a period of unprecedented renewal. It has adopted an ambitious strategic plan that will guide its development through 2010. That plan focuses on three overarching goals: (1) to maintain and enhance academic excellence by setting and meeting the highest possible standards, (2) to ensure a student-centered campus by making academic and personal achievement the College’s guiding principle, and (3) to be a “model citizen” in the borough of Brooklyn, alive to its civic responsibilities and unwavering in its educational leadership.

Since 2000, the College has added more than 250 faculty members trained at such universities as Harvard, Oxford, Stanford, and Yale. The faculty includes two Pulitzer Prize winners—Edwin G. Burrows, a member of the Department of History; and former New York Newsday city editor Paul Moses, a Brooklyn College graduate who teaches journalism—and winners of Guggenheim and Fulbright fellowships; Obie, ASCAP, and National Book awards; and the Rome Prize.

The Division of Graduate Studies draws on this record of achievement. For almost seventy years, the division has enabled qualified students of diverse backgrounds to acquire an advanced education of superior quality at a comparatively modest tuition. Today students from almost every state and more than thirty countries are working toward their master's degree at Brooklyn College. The master's degree may be a terminal degree or serve as a stepping-stone to higher degrees and doctorates at many institutions, including the City University of New York Graduate Center (see “City University Ph.D. programs” in the chapter “Support for Academic Success in Graduate School”). The Division of Graduate Studies offers more than sixty master's degree and advanced certificate programs in the arts, education, humanities, sciences, social sciences, and professional studies. Each year hundreds of graduate students embark on professional careers with the assistance of the Magner Center for Career Development and Internships. Fostering a strong sense of community are the Graduate Student Organization, a number of student clubs, a graduate student newsletter, a series of graduate student lectures, and lively social events.

Brooklyn College is in the midst of a major capital improvement program. In 2002, it completed an extensive renovation and expansion of the Brooklyn College Library, now technologically the most advanced in the CUNY system. The West Quad Project, begun in 2003 and scheduled for completion in 2009, will create...
a second verdant quadrangle and a new building that will house student services and state-of-the-art physical education and athletic facilities. Plans are under way for the construction of a $75 million center for the performing arts, which will serve the Conservatory of Music, the Department of Theater, and related disciplines. The College is in the early stages of planning for major new facilities in the sciences to support both cutting-edge research and innovative science education.

As a public institution, Brooklyn College has an important responsibility to the borough of Brooklyn. The College has actively broadened its engagement with the surrounding neighborhood as well as Brooklyn's cultural and social organizations. It highlights campus programs and services available to the public through a regular newsletter distributed in the community.

**Accreditation and registration**

Brooklyn College is accredited by the Middle States Commission on Higher Education (3624 Market Street, Philadelphia, PA; (267) 284-5000; info@msche.org), the Council on Education for Public Health, the American Speech-Language-Hearing Association Council on Academic Accreditation in Audiology and Speech-Language Pathology, the American Dietetic Association, and the National Council for Accreditation of Teacher Education. The College's academic programs are registered by the New York State Department of Education (see the chapter “Inventory of Registered Programs” in this Bulletin).

**Brooklyn College Alumni Association**

Upon graduation, alumni begin a lifelong relationship with the College. Many participate as mentors, internship or scholarship sponsors, and career advisers in programs designed to assist students while they are still in college. The primary charge of the Brooklyn College Alumni Association (BCAA) and the Brooklyn College Office of Alumni Affairs is to foster, maintain, and enhance the alumni connection to the College. They provide activities, services, and programs for regional chapters, graduating classes, and professional and cultural affiliate groups. Throughout the year, the BCAA sponsors events that highlight the Brooklyn College experience and recognize alumni accomplishments. It selects and honors an Alumna and an Alumnus of the Year and confers various awards to alumni of the College.

The Office of Alumni Affairs, (718) 951-5065, maintains a database of more than 89,000 alumni and keeps biographical files with news clippings, information on awards, and other materials. Alumni are issued an ID card that enables them to use selected resources of Brooklyn College. Other services available include an online alumni community; a long-term health care option; home, automobile, and term life insurance; and a Bank of America affinity credit card.

**The Brooklyn College Foundation, Inc.**

Established in 1958, the Brooklyn College Foundation raises funds to promote the academic purposes of Brooklyn College and the educational welfare of its students, faculty, alumni, and the community. The foundation is incorporated in New York State, registered as a 501(c)(3) not-for-profit corporation, and listed by the New York State Office of Charities Registration.

A board of trustees directs the foundation's operations. The trustees, chosen for their professional expertise and generous support of the College, are elected for three-year terms and serve without compensation. The foundation provides funding in support of numerous scholarships and awards, helping to attract the best and most ambitious students to Brooklyn College. Information and applications for foundation-sponsored scholarships are available through the Scholarship Office. The foundation also administers more than two hundred funds that enable the College to recognize and honor faculty distinction in teaching and scholarship and to offer stipends for sabbaticals and travel expenses that allow faculty to pursue their scholarly endeavors. It supports academic programs by providing funds to augment classroom instruction with special lectures, conferences, workshops, and distinguished guest speakers.

Gifts from alumni and friends to the Brooklyn College Foundation underwrite needs that cannot be funded by state assistance, tuition, or fees. The annual campaign raises funds for scholarships, faculty development initiatives, special seminars, equipment for classrooms and laboratories, and facilities.

The Brooklyn College Foundation may be reached at (718) 951-5074 or via its website, www.brooklyncollegefoundation.org.
Support for Academic Success in Graduate School

Brooklyn College provides numerous resources that support graduate students’ academic success and help them navigate the procedures and processes of the College more easily. Many are described in this Bulletin; below are highlights of resources that graduate students should be familiar with.

Note: Many student services offices will move to the new West Quad building, scheduled for completion in spring 2009. Contact information for services located in the new building will be available on the College websites and annual publications when that move occurs. URLs may also change as the College continues to upgrade its Web resources.

Websites

The College has two major Web resources. The main College site, www.brooklyn.cuny.edu, is designed primarily for external audiences, including prospective students. For accepted and enrolled students, another resource, the BC WebCentral portal, https://portal.brooklyn.edu, contains customized information about College life and access to many online services.

The WebCentral portal has many resources that students can use quickly and easily to manage their enrollment, determine their academic progress, and obtain key information about their graduate status. It is a gateway to students’ academic needs and provides personalized access to all Brooklyn College Web applications and services in one place. Once students create a WebCentral ID, they will be able to access the portal from any Internet-enabled computer on and off campus. Students without Internet access at home may access the portal from one of the many computer facilities on campus (see “Information Technology Services” in the chapter “Additional Campus Services and Facilities”).

E-mail is the principal way the College communicates with students about on-campus events. The Graduate Investment Program, for example, sends e-mails about such opportunities planned specifically for graduate students as workshops for professional development, funding for conferences and research expenses, and special internships. When students register for the portal, they are asked to supply a preferred e-mail address. To make sure information reaches them, this e-mail address must be current, checked regularly, and updated if changed.

The WebCentral portal has information that helps students avoid having to visit multiple offices to manage their education. Content includes each semester’s course schedule and College calendar, students’ grades and progress toward degree completion, and PDF forms needed to conduct business in the Graduate Division. Using the WebSIMS system in the portal, students have easy access to online course registration, bill payment via credit card, official transcripts, financial aid information, and personal information updates (address, e-mail, and phone number). They can search for scholarships, access the library catalogue and the Blackboard course management system, and much more. The information in the portal is updated regularly to expand the e-services available for Brooklyn College graduate students.

Enrollment Services Center

Designed to provide students with “one-stop shopping,” the Enrollment Services Center (ESC), 0100A Boylan Hall, enables students to accomplish routine tasks quickly and efficiently. The ESC is the home of the registrar’s information counter, tuition and fees payment processing, photo ID services, check distribution functions, and general financial aid information. (For financial aid counseling, visit the Financial Aid Office, 1306 James Hall.) For hours of operation or other information about the ESC, call (718) 758-8150 or e-mail esc@brooklyn.cuny.edu.

Important publications

The Schedule of Classes is a key document published in the fall and spring semesters and in the two summer sessions. It contains information on courses being offered, their times and locations, and tuition and fees. Most importantly, the Schedule of Classes lists critical dates for academic deadlines such as the last day to add and drop courses, register for comprehensive exams, and file for graduation. All master’s students are responsible for knowing these dates and adapting their academic schedule to them. Exceptions to these dates are made only under extenuating circumstances. The Schedule of Classes is available both in print, distributed at the ESC and outside the Registrar’s Office,
online, on both of the College websites. The College also runs a winter intersession in January that includes some graduate classes that lend themselves to a short, intensive presentation; classes for the winter intersession are included in the fall edition of the Schedule of Classes.

The Graduate Bulletin contains comprehensive information about the rules and procedures of the City University of New York and Brooklyn College, in addition to descriptive material about academic and cocurricular aspects of College life. Students should familiarize themselves with the Graduate Bulletin when they first arrive at Brooklyn College and refer to it throughout their academic career here. The Graduate Bulletin is published every three years. It is important for students to monitor the other information sources already described for changes in tuition and fees, program requirements, academic policies, and location and contact information. The College curriculum is dynamic: new courses and programs are added every year; existing programs are modified or withdrawn. For general information on how changes in academic programs and other requirements affect already enrolled students, see “Applicable Bulletin” in the chapter “Academic Regulations and Procedures.”

Graduate deputies and program heads
Each graduate program has a faculty member responsible for advising graduate students and handling academic transactions for the program. In all departments except the School of Education, these individuals are called graduate deputies. In the School of Education, there is a graduate deputy for the department and separate program heads in each program. The graduate deputies and program heads provide personalized academic advising, course permissions, and approvals required at the departmental level. Regular consultation with them is a key factor in graduate career success at Brooklyn College. Contact information for graduate deputies and program heads is available online on the College website, www.brooklyn.cuny.edu; click on “Academics,” then “Graduate Programs and Advisers,” then “Graduate Advisers.”

Office of the Dean of Research and Graduate Studies
The Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall (718-951-5252; grad@brooklyn.cuny.edu), provides general academic advisement and assistance in support of such academic issues as waivers and exemptions; comprehensive exams and theses; and student petitions to the faculty committee that monitors compliance with the College’s academic regulations. The office assists students who are on academic probation in becoming academically more successful, leading to attainment of a master’s degree. The staff in this office work directly with graduate deputies and program heads to assist students in all the College’s master’s programs and advanced certificates.

City University Ph.D. programs
Most graduate study at Brooklyn College leads to master’s degrees and advanced certificates. The Graduate Center of The City University of New York, however, offers and administers more than thirty doctoral programs. A list of the CUNY doctoral programs is available online at www.gc.cuny.edu. Depending on the field, doctoral courses are given at either the Graduate Center or the senior colleges of CUNY.

A student may apply to a CUNY doctoral program upon completion of a bachelor’s or a master’s degree. A maximum of 30 acceptable graduate credits taken prior to admission to the doctoral program at the City University may be applied toward the degree, provided the courses were completed with a grade of B or higher within an appropriate period preceding the time of application. Should applicants wish to apply credits they earned at an institution other than CUNY, the courses they took must be equivalent to comparable courses at the City University.

Information about CUNY’s doctoral programs and the many areas of specialization within each discipline may be found on the Graduate Center website, www.gc.cuny.edu. The Bulletin of the Graduate Center is available at www.gc.cuny.edu/current_students/bulletin/index.htm. Applications may be obtained from the Office of Admissions or downloaded from the Graduate Center website, www.gc.cuny.edu/admin_offices/admissions/index.htm.
Admission

This section addresses admission requirements relating to academic qualifications and provides important information on admission status, the admission process, and New York State health law. It also explains additional admission requirements for international applicants. This material can also be found in the most up-to-date form on the website for graduate admissions at www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students.”

Admission status

All applicants must meet the general academic admission requirements cited below in the section “Applying to Brooklyn College.” The department or program determines the admission status of accepted applicants. Any subsequent change in status is determined by the department. The Office of Admissions sends official notification of the department’s decision to the applicant.

Graduate students may be enrolled in matriculated, matriculated with conditions, nonmatriculated, nondegree, or provisional status. Students enrolled as matriculated or matriculated with conditions are formally admitted to pursue a degree; those enrolled in the remaining three categories are not matriculated and thus not yet formally admitted to pursue a degree.

Matriculated

Applicants who fully meet the departmental and the general academic admission requirements are placed in matriculated status, that is, they are formally admitted to pursue a degree or an advanced certificate.

Matriculated with conditions

Students in this status are formally admitted to pursue a degree but must meet certain additional conditions as set by the department. It is recommended that the admission condition(s) be met within one year.

Nonmatriculated

Students who demonstrate academic potential but who need substantial academic preparation in order to meet the program’s requirements may be admitted by the department as nonmatriculated. Nonmatriculated students are not formally admitted to a degree program until they satisfy all requirements specified by the department. The department will make recommendations for courses and/or other requirements necessary for a student to become matriculated. Nonmatriculated students may complete no more than 15 credits in this status and must maintain a grade point average (GPA) of at least 3.00. When 15 credits are completed, a bar to further registration will be placed on the student’s record, and the student may not take additional courses without special permission. Nonmatriculated students will be recommended for promotion to matriculated status when they meet the requirements of the department. (See the section “Matriculation promotion,” below, for additional information.)

Nondegree

Students in this status do not intend to pursue a degree. Applicants who wish to take courses for personal or professional reasons without pursuing a degree may choose to apply for nondegree status; they must still be academically qualified and admitted by a specific department or program that will oversee their course selection and academic progress. The applicant must sign a declaration acknowledging that a maximum of 15 credits completed in nondegree status may be applied toward a degree if the student ever be accepted as a degree candidate. Nondegree students may file for a change to matriculated status with the Office of Admissions. For some programs, students may be required to supply additional supporting materials. Even though only 15 credits taken in nondegree status may be applied toward a master’s degree, nondegree students may take courses beyond the 15-credit limit provided that they maintain a GPA of 3.00 or higher and have the approval of their program and the dean of research and graduate studies.

Provisional

Students in this status are admitted to a program temporarily, pending completion of their application. Applicants who file after the priority deadline and/or file an incomplete application may be considered for provisional admission provided that the department, in consultation with the Office of Graduate Admissions, agrees. Provisional students will be barred from registration after the first semester if they have not complied with all admission requirements.
Matriculation promotion
Students admitted in nonmatriculated status are candidates for promotion to matriculated status. The department in which a student intends to earn a degree determines which course and other requirements must be met in order for him or her to be promoted to matriculated status. Nonmatriculated students are reviewed and, if eligible, promoted by their department. Departments review each nonmatriculated student every semester and forward the names of those meriting matriculated status to the Office of the Registrar, which notifies students of their change in status.

Promotion to matriculated status is expected to occur by the time 15 credits are completed. Students who do not meet the requirements of matriculated status—a GPA of 3.00—will not be allowed to continue in their program beyond the 15-credit limit.

When a student is promoted to matriculated status, courses taken in nonmatriculated status are calculated in the GPA in the same manner as courses taken in matriculated status (see “Calculation of the GPA” in the chapter “Academic Regulations and Procedures”). In most cases, upon matriculation only courses in the major are considered and calculated in the GPA.

Note: Matriculation requirements specific to students admitted in the School of Education programs are stated under “Education” in the chapter “Programs of Study.”

The admission process
The following sections describe the procedures and the general academic requirements for admission to the Division of Graduate Studies.

Brooklyn College requires all applications for graduate study to be done online. Applications for admission are available at www.brooklyn.cuny.edu; click on “Admissions,” then “Apply,” then “Graduate Admissions Application.” For assistance, contact the Admissions Information Center (AIC), 1103 James Hall, (718) 951-5001. The AIC is open Monday through Friday during the day and two evenings during the week.

If students are found to have submitted false or deliberately incomplete supporting materials in application for admission, CUNY policy on admissions imposes penalties including rejection of admission, expulsion from a program, and withdrawal of a degree earned. See “Policies on submission of fraudulent or incomplete admissions materials” in the chapter “Student Rights and College and University Rules.”

Academic qualifications
Admission decisions are based on review of a complete application as specified below. Decisions are issued by the academic department that offers the degree program specified on the application. Students are advised to discuss issues and questions about requirements for graduate study directly with departmental representatives. Information on deputies and program heads responsible for master's and advanced certificate programs may be found on the Brooklyn College homepage, www.brooklyn.cuny.edu; click on “Academics,” then “Graduate Programs and Advisors”; and on the WebCentral portal, https://portal.brooklyn.edu; click on “Academics.”

Degrees required for admission. Applicants for admission to master's degree or advanced certificate programs must have completed an approved undergraduate program of study and graduated with a minimum of an acceptable baccalaureate degree or its equivalent from an accredited institution. In certain unusual circumstances, students may be admitted for graduate study even if they do not possess a traditional bachelor's degree or may already possess a master's degree. In such cases, students should discuss their credentials for admission with the prospective department or program as early as possible. Some advanced certificate programs require the prior completion of a master's degree in an approved program of study from an accredited institution.

Grade point average (GPA) required for admission. In most majors, a minimum grade point average of 3.00 in the undergraduate major and a minimum overall GPA of 2.70 are required. Students with degrees that do not use a 0.00–4.00 grading scheme must be able to show how their academic performance relates to this grading standard. In determining the admission of students who do not have the required undergraduate averages, grades in appropriate graduate courses completed in an approved institution may be considered.

Graduate Record Examination (GRE). Graduate Record Examination scores are required in some programs. Examination requirements, if any, are stated under a program's admission requirements in this Bulletin and
Admission on the College website (www.brooklyn.cuny.edu; click “Admissions,” then “For Graduate Students,” then “Application Requirements”), which has the most up-to-date information on the admissions requirements for each program.

Information on how to register for the GRE online, by phone, or by mail, including information for non-U.S. test takers and test takers with disabilities, may be found in the GRE section of the Educational Testing Service (ETS) website, www.ets.org. Arrangements to take nonstandard versions of the GRE must be made with ETS; contact information may be found by clicking the GRE link on the ETS website.

Applicants who have taken the examination should arrange to have the scores sent by ETS directly to the Brooklyn College Office of Admissions, 2900 Bedford Avenue, Brooklyn, NY 11210. The Brooklyn College code is 2046. GRE scores must be received by the application deadlines specified on the College website, www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students,” then “Application Requirements.”

**How to apply for admission and readmission**

Applicants for admission to the Division of Graduate Studies must apply to the Office of Admissions using the online application at www.brooklyn.cuny.edu; click on “Admissions,” then “Apply,” then “Graduate Admissions Application.”

For students seeking matriculated status (that is, those intending to earn a master’s degree or an advanced certificate), a nonrefundable fee of $125 is payable when the application is filed. The application fee may be paid online by credit card, or a check or money order made out to Brooklyn College may be mailed to the Office of Admissions, Brooklyn College, 2900 Bedford Avenue, Brooklyn, NY 11210. For applicants for nondegree status, the application fee is payable when the student first registers for course work.

New applicants or candidates for readmission should inform the Office of Admissions of any change in the name that appears on the admission application. Official documentation is required to substantiate a name change (for example, a marriage certificate or court document). Credentials submitted with an application become the property of Brooklyn College and will not be returned to the applicant.

**Application packet**

In addition to the online application, materials that constitute a complete application for matriculated students include transcript(s) from all postsecondary institutions, letters of recommendation, and other requirements as specified by individual programs. See the graduate admissions website for specifics required by each program: www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students,” then “Application Requirements.”

Nondegree applicants must submit an application to a specific program as well as a copy of a transcript showing attainment of a bachelor’s degree; this does not need to be an official transcript, although it may be. No additional supporting documents are required.

Additional requirements for international applicants, who in all cases may attend only as matriculated students, are specified below.

All completed applications received in the Office of Admissions by the announced deadlines will be given priority in processing and review over incomplete or late applications.

**Transcripts.** For applicants for matriculation, a complete and official transcript from each postsecondary institution must accompany the application. Nondegree students may submit official or unofficial transcripts; for the latter, the transcript must be on the institution’s letterhead or transcript paper. The transcript must include the student’s personal information, courses, grades, GPA, and graduation degree notation. Internet and fax copies of transcripts are not suitable. For students with undergraduate or graduate degrees from Brooklyn College, the Office of Admissions will obtain an official copy of Brooklyn College transcripts for the applicant. All other transcripts must be mailed directly to the Office of Admissions. For information on transcripts for international students, see “Additional admission requirements for students with international credentials,” below.

Upon admission to the Division of Graduate Studies, applicants who are completing their final undergraduate semester must arrange to have a final official transcript
indicating that the bachelor’s degree has been awarded submitted to the Office of Admissions within the first semester. Failure to supply proof of the undergraduate degree before the end of the first semester in attendance will result in a bar on further registration.

Letters of recommendation. All applicants for matriculation to the Division of Graduate Studies must submit two letters of recommendation. The letters must be from faculty members familiar with the applicant’s academic achievement and plans for graduate study. In some cases, letters of recommendation from other professionals may be acceptable, but letter writers should support the applicant’s academic or professional qualifications for graduate study. Applicants who want to submit letters of recommendation from professionals other than faculty members should contact the department of major study for permission. References should mail letters of recommendation directly to the Office of Admissions. Applicants for nondegree status may submit letters of recommendation, but they are not required.

Other materials. Some programs have requirements in addition to the above, including statements of purpose and, in the fine or performing arts, portfolios, writing samples, auditions, or interviews. For information on these additional requirements, see the graduate admissions website: www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students,” then “Application Requirements.”

**Application deadlines**

To ensure consideration for admission, it is the applicant’s responsibility to make sure that the application and all supporting credentials are received by the Office of Admissions by the stipulated dates. Although there are admissions for both fall and spring semesters, not all programs admit for the spring. For up-to-date information on programs that admit new students for the spring semester, see the graduate admissions website, www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students,” then “Application Requirements.”

For the M.F.A. programs in art, creative writing, acting, theater history and criticism, dramaturgy, and performance art management; the M.S. in speech-language pathology; and the M.A. in mental health counseling, complete applications should be filed by February 1 for fall admissions. These are highly selective programs that normally fill their classes soon after the application deadline. For all other programs, priority will be given to complete applications filed by March 1 for the fall semester and by November 1 for the spring semester for those programs that admit for both spring and fall. Students who plan to attend in the fall may attend in the preceding summer if courses that fit their program are offered. Some programs have rolling admissions and will consider applications from students who apply after the formal deadlines if space is available in the program. Details on application and processing deadlines may also be found at www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students,” then “Application Requirements.”

Students may register for summer classes in nondegree status even if they are not interested in taking classes in the fall. Students who are interested in attending summer classes should apply by mid-May, or as soon as the Schedule of Classes for the summer terms is published, normally in mid-April. Students from other CUNY schools may register as visiting students for the summer session (see the section “Visiting students,” below).

**Deadlines for students with international credentials.** Because of the extra time needed to verify credentials for students with an international bachelor’s degree, students submitting foreign credentials for any status of graduate study must file applications by February 1 for the fall semester and by October 1 for the spring semester. Students admitted for the fall may take classes in the preceding summer as matriculated students if appropriate classes are scheduled. For program-specific deadlines and requirements, students are advised to consult the Brooklyn College website, www.brooklyn.cuny.edu; click on “Admissions,” then “For Graduate Students,” then “Application Requirements.”

Applications received after these deadlines will be considered if space is available in the program of interest, but students with an international bachelor’s degree will not be admitted without a formal review of their credentials, which can take several months.

Late and/or incomplete applications. Applicants whose application and/or official documentation arrives after the application deadline may be accepted in a provisional status, provided their materials arrive in time to be reviewed by the program to which they have
applied and they are not students applying with F-1 or J-1 visas. (On the latter, see the section “Additional admission requirements for students with international credentials,” below.) In such cases, an official or unofficial transcript indicating that a baccalaureate degree or its equivalent has been awarded must accompany the application. Applicants whose application materials are incomplete may be placed in provisional status provided that both the department and the applicant indicate this choice to the Office of Admissions. There is no additional fee beyond the basic $125 application fee associated with late or incomplete filing.

Provisionally accepted applicants must sign a declaration in which they a) state that the information supplied is complete and accurate; b) agree to complete the full application process by the next regular deadline during the first semester of study; and c) acknowledge and accept that if they do not register, fail to complete the application process (including submission of all required official documents) during the first semester of study, or are denied admission following such application, they will be barred from further registration.

Provisionally accepted applicants are classified as nonmatriculated students (for a complete explanation, see the section “Admission status,” above). For that reason, F-1 and J-1 students may not be admitted as provisional students. Matriculated status, which indicates the intent to earn a master’s degree or advanced certificate, is contingent upon a completed application packet and final approval by the academic department and may occur prior to initial registration if the application is completed by that time.

Additional admission requirements for students with international credentials

1. As mentioned above in the section “Application deadlines,” all applicants with international credentials should file their applications one month prior to the specified deadline. This is necessary to facilitate the special process required for evaluating international documents. Students with F-1 and J-1 visas may apply only for full-time matriculated status (see the section “Admission status,” above). There is a helpful online tutorial on applying to Brooklyn College as an international student at www.brooklyn.cuny.edu; click on “Admissions,” then “For International Students,” then “Online Tutorial.”

2. The international applicant’s undergraduate degree must be the equivalent of a U.S. baccalaureate degree, that is, it must encompass the required professional and liberal arts training necessary for that degree in the United States. Official transcripts, degree certifications, and diplomas in their original language must be mailed to the Office of Admissions at Brooklyn College. They must bear the original impression of the institution’s seal or the original signature of the registrar or other designated school official. All documents not issued in English by the official institution must be accompanied by certified English translations. In addition, all applicants educated outside of the United States must have their transcripts evaluated by an external agency that does a course-by-course analysis which indicates the type of degree received and graduation date, the equivalency of the diploma or degree, and a cumulative grade point average. More information about this requirement, including information on the approved agencies, may be found at www.brooklyn.cuny.edu; click on “Admissions,” then “For International Students,” then “Graduate Application Requirements.”

3. International applicants whose native language is not English or who were educated in a country where English is not the official language must take the Test of English as a Foreign Language (TOEFL) and arrange to have official score reports sent to the Office of Admissions. The minimum acceptable TOEFL score is 500 (or 173 in the computer-based version, or 61 in the Internet-based version), although some programs require significantly higher scores. Information on applying to take the TOEFL may be found on the ETS website, www.ets.org; link there to the TOEFL homepage as well as for information on phone, mail, and e-mail contact with ETS about the TOEFL. The code for reporting TOEFL scores to Brooklyn College is 2046.

4. Applicants who will require F-1 and J-1 visas to enter the United States for study at Brooklyn College must complete the Confidential Declaration and Certification of Finances. Supporting financial documentation must be submitted in order to obtain the I-20 Certificate of Eligibility from the College. International students admitted to the College are required to subscribe to a health insurance plan and to arrange for their own housing. The College's
Office of Personal Counseling, (718) 951-5363, provides some assistance for students searching for off-campus housing. See also www.brooklyn.cuny.edu; click on “Campus Life,” then “Living in Brooklyn.”

5. Soon after their arrival in New York, international students should check in with the International Student Services Office, 1600 James Hall. Immediately following, they should report their local address to the Office of Admissions, 1105 James Hall.

6. Matriculating students with TOEFL scores close to the minimum required by their academic program on any version of the TOEFL are strongly advised to take English 600, Advanced Writing Workshop for ESL Graduate Students or other ESL classes available on campus.

Admissions decisions
After a completed application packet has been received, the academic department or program to which the student has applied will review it. Once the department has conducted its review, the Office of Admissions sends official notification of the department’s admission decision to the applicant. Though the department or program may contact the student about admission, the College letter is the official indication of acceptance.

Change of program
If a student intends to change from one degree or advanced certificate program to another, he or she must indicate the intent to officially withdraw from the first program by filing a Change of Curriculum Form in the Office of Admissions and must then file a new application for admission to the second program. This application will be reviewed by the program to which the student wishes to move. No additional fees are required when students change from one program to another one in the same department. Students requesting to change from a program in one department to one in a different department are required to file a new application, including a new application fee. Students changing programs should consult with the Office of Graduate Admissions about any additional application materials required by the new program.

Transfer credit
Information about transfer credit may be found in the chapter “Academic Regulations and Procedures.”

Visiting students
Students visiting from other CUNY colleges
Students from other CUNY colleges who wish to take courses at Brooklyn College must, prior to registration, submit a CUNY permit request from their home college to the Office of the Registrar. This may be done in person or online using the CUNY e-permit system by logging onto the CUNY portal, www.portal.cuny.edu; click on “Current Students,” then “Course Permits.” Note that permission to take a permit course is not the same as registration for that course. The permit registration is not completed until the student pays at the home campus and completes the registration process at Brooklyn College. All three steps—the permit request at Brooklyn College, payment at the home campus, and registration at Brooklyn College—must be completed, or the student is not officially registered for the course at Brooklyn College.

Brooklyn College students may take courses at other CUNY schools. A parallel permit procedure applies to them.

Students visiting from non-CUNY schools
Students in attendance at colleges other than CUNY colleges may be admitted as visiting students. They must file a Visiting Student Application Form and submit to the Office of the Registrar an official letter certifying that they are in good academic standing at their home college and have permission to take course work at Brooklyn College. The Visiting Student Application Form may be downloaded from the College website, www.brooklyn.cuny.edu; click on “Admissions,” then “For Visiting Students.” Visiting graduate students must obtain approval of the appropriate graduate deputy or program head before they are allowed to register for classes. Visiting student status is valid for only one semester and includes a nonrefundable $50 application processing fee.

Auditing courses
Students may register to audit graduate courses for no academic credit by presenting an audit form approved by the relevant graduate deputy or program head to the ESC during the first week of classes. Courses
audited may not be repeated for credit. Students may obtain an application form in the Office of the Registrar, 1118 Boylan Hall, or online on the WebCentral portal. Students auditing a course must pay applicable tuition and fees. Consult the Schedule of Classes for further instructions. Unofficial auditing is not permitted.

Registration for courses
Students are expected to complete registration during the College’s official registration period. Information on critical dates for a specific semester as well as course schedules may be found in the Schedule of Classes or on the College website, www.brooklyn.cuny.edu; click on “Academics,” then “Course Information and Schedules.” A print version of the Schedule of Classes may be obtained at the Enrollment Service Center (ESC), 0100A Boylan Hall. It is highly recommended, and in some programs required, that students consult with their graduate deputy or program head prior to registration, as many graduate classes require that express permission from the program’s administration be entered into the registration system. Entering students should bring copies of their undergraduate transcripts to the graduate deputy or program head. Continuing students should present a copy of their up-to-date Degree Progress Report, obtainable on the College portal, https://portal.brooklyn.edu; click on the “My Info” tab, then “My Degree Progress.”

New York State health law requirements
New York State law requires students registered for 6 or more credits in any term to submit documentation proving immunity to measles, mumps, and rubella. The following constitutes proof of immunity: two doses of measles vaccine and one dose each of mumps and rubella; or blood test results showing immunity to each disease.

Students who do not receive a Student Immunization Record as part of their admission packet may obtain one in the Health Programs/Immunization Requirements Office, 0710 James Hall, (718) 951-4505. Forms may also be found online at www.brooklyn.cuny.edu/bc/offices/studlife/hpo.html.

While certain students may be exempt because of age, medical reasons, or religious belief, they must still submit documentation of exemption before registering.

Students who are not exempt must submit proof that they have received one dose each of measles, mumps, and rubella vaccine before registering; they have thirty days to submit proof of the second dose of the measles vaccine.

After thirty days, students who have not submitted complete documentation will be prohibited from attending classes and will receive a grade of WA (withdrew for failure to satisfy immunization requirements; no academic penalty) in all courses for the semester. Tuition will not be refunded, and there may be consequences with regard to financial assistance.

New York Public Health Law 2167 requires students to submit a Meningococcal Meningitis Vaccination Response Form signed by the student or student’s parent or guardian to the Health Programs/Immunization Requirements Office. Students who fail to return this form within thirty days from the beginning of the semester may not attend classes. The form acknowledges the receipt of mandatory meningococcal disease and vaccination information. Vaccination is not required.
Tuition and Fees

Tuition and fees for graduate students listed in this Bulletin and in all registration material issued by Brooklyn College are set by the Board of Trustees of the City University of New York and are subject to change without notice. If tuition or fees are increased, payments already made are counted as partial payment. Students will be notified of the additional amount due and of the payment deadline.

Tuition for New York State residents
Students residing in New York State who are enrolled for 12 or more credits per semester are classified as full-time students. For them, tuition is $3,200. Students who are enrolled for fewer than 12 credits per semester are classified as part-time students. All courses taken by part-time graduate students are billed on a per-credit basis. Part-time students residing in New York State pay tuition at $270 a credit. For courses in which the number of hours a class meets each week exceeds the number of credits, part-time students pay $270 a credit plus $65 for each additional class hour. Some departments have noncredit thesis research and supervision courses that are billed as three-hour, 3-credit courses.

New York State residency requirements. To be classified as a New York State resident, an applicant must be a citizen or permanent resident of the United States and must have resided in the state of New York for the twelve-month period preceding the first day of classes of the term in which the applicant enrolls. Students classified by the director of admissions and the registrar as out-of-state residents must pay tuition as nonresident students. They may apply to have their status changed to New York State resident by filing a City University residence form in the Office of the Registrar, 1118 Boylan Hall; the form is available on the WebCentral portal. The following documents must accompany this form: a copy of a lease and rent receipts or canceled rent payment checks for the period of one year before the term in which the student claims to meet state residency requirements, a certified copy of the most recent New York State or federal income tax return, and utility company bills. Applicants for residency who are under eighteen years of age must submit certified copies of a parent's or guardian's federal and state income tax forms. Students who were admitted to Brooklyn College with an immigration permanent resident card must submit the card at the time of filing. Additional information and requirements are contained on the City University residency form.

Students must provide all documents proving residency status no later than the end of the second week of classes of the semester in which that status would take effect. Documentation provided after that time will delay the new residency status until the following semester.

An applicant for residency who does not provide the registrar with the required information or documentation may be classified as an out-of-state resident. Students denied resident status by the registrar may appeal the decision within ten days of the date of notification.

Tuition for nonresidents and international students
There is no full-time tuition rate for nonresidents and international students. Regardless of the number of credits, all courses taken by nonresident students are billed on a per-credit basis at the rate of $500 per credit. For courses in which the number of hours a class meets each week exceeds the number of credits, students pay $500 a credit plus $85 for each additional class hour. Some departments have noncredit thesis research and supervision courses that are billed as three-hour, 3-credit courses.

Maintenance of matriculation
Master's students must be in a matriculated status to complete degree requirements. This includes resolving INC grades, taking comprehensive examinations, and filing theses as final requirements in preparation for graduation. Students must also be registered during the semester in which they intend to graduate. If they are not registered for any credit-bearing classes that are acceptable in their program with their deans as they plan their schedules near the point of graduation.
Graduate students taking undergraduate courses

Graduate students who take undergraduate courses to satisfy graduate degree prerequisites, corequisites, conditions of admission, or other requirements pay tuition rates set for undergraduate part-time matriculated students. If the undergraduate courses are not required by the student's master's program, then tuition is based on the part-time undergraduate nondegree rate. These rates may be found in the Schedule of Classes and the Undergraduate Bulletin.

Undergraduate students taking graduate courses

Credit for an undergraduate or graduate course may be applied either toward an undergraduate degree or a graduate degree, but not both. Brooklyn College undergraduate students who take graduate courses for graduate credit pay applicable resident or nonresident tuition rates set for graduate students and are subject to the maximum tuition rate set for undergraduate students. Graduate Division tuition rates are listed in this Bulletin and in the Schedule of Classes. If the courses are used toward a graduate degree, the student must be rebilled at the graduate tuition rate.

Undergraduate students who take graduate courses for undergraduate credit pay applicable tuition rates set for undergraduate students.

Tuition waiver for employees of the City University of New York

After six months of service, full-time employees of the City University of New York may be granted a waiver of tuition for up to 6 credits in graduate courses each term. Employees must meet standards and requirements of the College and be accepted by the Division of Graduate Studies. They may be admitted as matriculated or nondegree students, but courses may not be taken during an employee's working hours. Exemption from payment of tuition does not include exemption from payment of noninstructional fees. Information and applications may be obtained in the Personnel Office, 1219 Boylan Hall.

Fees

Graduate students pay a Student Activity Fee and a CUNY Consolidated Services Fee each semester and summer session in which they enroll. This fee covers the funding of student government, student organizations, College newspapers, and other student activities; funding to support the Early Childhood Center; and services and maintenance of the Student Center. The entire fee must be paid at registration. No part of the fee is refundable. The amount is the same for full- or part-time enrollment.

Fall and spring semesters

Student Activity Fee:
- Student Center $32.50
- Student activities 21.75
- Health Clinic 10.00
- University Student Senate 0.85
  Total Student Activity Fee $65.10

CUNY Consolidated Services Fee $15.00

Summer 1 and summer 2 sessions

Student Activity Fee:
- Student Center $32.50
- Student activities 7.50
- Health Clinic 10.00
- University Student Senate 0.85
  Total Student Activity Fee $50.85

CUNY Consolidated Services Fee $15.00

Students registered at the College must also pay a fee to cover the costs of equipment and technology used in teaching. The Technology Fee is $100 for full-time students, enrolled for 12 or more credits a semester, and $50 for part-time students, enrolled for fewer than 12 credits a semester. Graduate students taking either summer session must pay the part-time Technology Fee each session they register.

Special fees

Application $125
Application for readmission $10
Duplicate diploma $15
Duplicate record $5 for each duplicate of any receipt or similar item
**Special fees (continued)**

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Late payment</td>
<td>$15 for students who are delinquent in paying tuition and fees by the deadlines indicated in the Schedule of Classes and on the tuition bill</td>
</tr>
<tr>
<td>Late registration</td>
<td>$25</td>
</tr>
<tr>
<td>Library fines</td>
<td>Students should consult the library for the policy on fines</td>
</tr>
<tr>
<td>Makeup examination</td>
<td>$25 for the first examination; $5 for each additional examination</td>
</tr>
<tr>
<td>Material fees</td>
<td>Some courses entail a fee to cover the costs of special materials, film rental charges, transportation, field trip expenses, or other non-instructional costs. Material fees are subject to change and are nonrefundable. Details may be found in each semester's Schedule of Classes.</td>
</tr>
<tr>
<td>Program change</td>
<td>$18 for adding a course, changing from one course to another, or changing from one section to another if changes are made at one time</td>
</tr>
<tr>
<td>Recreation and athletics</td>
<td>$18.60 for use of athletics facilities (optional)</td>
</tr>
<tr>
<td>Replacement of ID card</td>
<td>$5</td>
</tr>
<tr>
<td>Reprocessing</td>
<td>$15 for a check returned by bank as uncollectible</td>
</tr>
<tr>
<td>Speech and Hearing Center</td>
<td>$200 for speech-language diagnostic evaluation; $175 for audiological evaluations; $770 for fourteen forty-five-minute individual speech therapy sessions (per semester) one time per week; $1,400 for individual speech therapy sessions two times per week; $150 per semester for aphasial group. Brooklyn College students, staff, and faculty with valid College ID receive a 40 percent discount.</td>
</tr>
<tr>
<td>Transcript</td>
<td>$7 (waived for transcripts sent to the admissions offices of other units of the City University)</td>
</tr>
<tr>
<td>Visiting student</td>
<td>$50 processing fee (non-CUNY students only)</td>
</tr>
</tbody>
</table>

**Payment of tuition and fees**

**Registration Statements (bills)**

Each time students register, a Registration Statement (or bill) is generated. The bill contains students' name, address, a few digits of their Social Security number, and their student status (e.g., undergraduate or graduate, matriculated or nonmatriculated, resident or nonresident). It lists the courses for which they are registered, the total amount of tuition and fees for these courses, and the balance due. The Registration Statement lists any financial aid or grants they have applied for and are eligible to receive and/or third-party payments. If the balance due on the bill is zero, no tuition is owed for the semester for which they are registering. If the balance due is not zero and any expected financial aid or other tuition support is not credited on the Registration Statement, students should contact the Financial Aid Office immediately.

Failure to pay tuition and fees within the required time period can lead to cancellation of registration. Students whose registration is canceled for nonpayment in the first weeks of the semester risk being closed out of classes if they do not pay before the last day to add classes. If they fail to register and pay before this final deadline (see Schedule of Classes for the dates each semester), they will not be permitted to register for that semester.

Students who register online may view and print their Registration Statement in WebSIMS, which provides the most current view of the amount owed for the semester's tuition. Depending on when students register, Registration Statements may also be mailed to home addresses as listed in WebSIMS. Students are responsible for checking their balance due in WebSIMS and paying by the deadline indicated. Failure to receive a mailed Registration Statement does not absolve the student from the responsibility of paying by the due date.

**Payment due dates**

Each semester, payment due dates are published in the Schedule of Classes and online on the WebCentral portal, https://portal.brooklyn.edu. If the account is not properly settled by the last specified due date, registration will be canceled and students will be barred from attending classes for the semester.
Payment options
Tuition may be paid online, by mail, in person, or under the terms and conditions of the CUNY TuitionPay Monthly Payment Plan. Brooklyn College does not accept telephone or faxed payments.

Online. Bills may be paid online in WebSIMS with major credit cards. The latest information about credit card payment may be found on the WebCentral portal, https://portal.brooklyn.edu.

Mail. Bills that are received in the mail or printed from WebSIMS may be returned to the Office of the Bursar, Brooklyn College, 2900 Bedford Avenue, Brooklyn, NY 11210. Students may send any combination of credit card, check, and money order payments. All checks and money orders should be made payable to Brooklyn College. Do not mail cash.

In person. Bills are payable in person at the Enrollment Services Center, 0100A Boylan Hall. The balance due may be paid in cash, or by credit card, check, money order, or any combination thereof.

Monthly payment plan. Under the terms of a CUNY-wide program, Brooklyn College students may enroll in the approved budgeted tuition payment plan. To maximize the benefit of this plan, students should complete their enrollment and commence making payments two months before the start of the fall or spring semester. There is no payment plan for summer or intersession terms. The enrollment fee is $18. Interest is not charged, but late payment fees do apply. For more information about this plan, call (866) 267-CUNY or visit www.TuitionPay.com/cuny.

Refund policy
The following refund schedule is subject to change by the Board of Trustees of The City University of New York. Tuition may be refunded as follows:

- 100 percent refund for withdrawal before the official start date of the fall or spring semester;
- 75 percent refund for withdrawal within one week after the scheduled start date of classes;
- 50 percent refund for withdrawal during the second week after the scheduled start date of classes;
- 25 percent refund for withdrawal during the third week after the scheduled start date of classes.

No refund is given if a student withdraws later than the third week after the scheduled start date of classes.

Tuition refunds are also processed for summer sessions and the January intersession. A schedule for these refunds as established by the number of days attended is published in the Schedule of Classes for the summer or January intersession in question. Further information about refunds may be obtained in the Refunds Office, 1147 Boylan Hall, or the Enrollment Services Center, 0100A Boylan Hall.

Unless a student's registration is canceled by the college, or he or she withdraws before the first scheduled day of classes, no portion of the Student Activity Fee or special fees is refunded. Students who enlist in the armed services, Peace Corps, or AmeriCorps and who have not attended classes long enough to qualify for a grade but continue in attendance to within two weeks of induction receive a refund of tuition and all fees, except application fees, as follows:

- 100 percent refund for withdrawal before the beginning of the fifth calendar week (third calendar week for summer session) after the scheduled opening date of the term;
- 50 percent refund for withdrawal thereafter.

Service must be documented with a copy of induction or service orders. No refund is made to a student who has been assigned a grade, whether the grade is passing or failing. To obtain a grade, a student must have been enrolled for approximately thirteen weeks or for five weeks in summer session.
Financing Your Education

Loans, college work-study, scholarships, graduate assistantships, fellowships, and internships are among the opportunities that are available to assist students in financing their education. Several programs and the offices that administer them are described below. Detailed information on programs and how to apply is available on the Brooklyn College website, www.brooklyn.cuny.edu; click on "Admissions," then "Financing Your Education." International students should contact the Office of Scholarships, (718) 951-4796, for additional information about other financial aid programs for which they may be eligible.

Office of Financial Aid

The Office of Financial Aid, (718) 951-5051, offers a variety of federal and state financial aid options designed to assist graduate students in financing their education. For most programs, a student is required to:

- be matriculated;
- enroll for at least 6 credits;
- be a U.S. citizen or permanent resident; and
- maintain satisfactory academic progress.

Applications and additional comprehensive information regarding application procedures, eligibility requirements, and rights and responsibilities of recipients may be obtained from the Office of Financial Aid.

In order to apply for federal or state financial aid, the student must complete a Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov. Students are urged to complete the FAFSA and submit any loan applications at least five months before the start of the semester for which assistance is desired. This will allow sufficient time for processing by the federal, state, College, and accounting operations.

The following estimates of costs for graduate study for the academic year 2008–09 may help students determine if they need assistance. The estimates are based on full-time study (12 credits) for New York State residents who do not live with their parents while attending school.

<table>
<thead>
<tr>
<th>Category</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and fees</td>
<td>$6,400</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>1,100</td>
</tr>
<tr>
<td>Transportation</td>
<td>1,200</td>
</tr>
<tr>
<td>Housing (rent, utilities, etc.)</td>
<td>6,200</td>
</tr>
<tr>
<td>Food</td>
<td>2,800</td>
</tr>
<tr>
<td>Personal</td>
<td>2,800</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$20,500</strong></td>
</tr>
</tbody>
</table>

Adjustments to a student’s budget are possible by submitting to the Office of Financial Aid a request for a budget adjustment accompanied by a more detailed personal budget of the student.

Federal programs

Federal William D. Ford Direct Loan Programs

Many graduate students at Brooklyn College fund their education through Federal Ford Direct Loan Programs. The loans allow eligible students to borrow money directly from the federal government at terms that are lower than typical consumer rates. Both subsidized and unsubsidized loans are covered. Graduate students should contact the Office of Financial Aid to determine the procedures for filing for such loans. There may be an interest-free grace period before repayment begins. Some loans may be deferred or repaid if the student works in a particular program or government job after graduation.

Under the Federal Ford Direct Loan Programs, a student may borrow up to $20,500, depending on eligibility, for each academic year of graduate or professional-degree study up to a total of $65,000, including any loans for undergraduate study. The loans carry a variable interest rate that currently is capped at 8.25 percent but may be lower.

Repayment of loans begins six months after a student ceases to be enrolled at least half time (6 credits). For information on deferments and other repayment options, the student should contact the Office of Financial Aid.
**Federal Perkins Loan Program**

The Federal Perkins Loan Program is a campus-based aid program designed to provide additional assistance to the neediest students. Students who are in good standing and enrolled for at least 6 credits will automatically be considered for a Perkins Loan based on the timely completion of the Free Application for Federal Student Aid (FAFSA). Eligible students may borrow up to a total of $30,000, including undergraduate Perkins Loans. Awards are based on the availability of funds and the financial need of the applicant. The average Perkins Loan awarded at Brooklyn College is $1,500 per year.

Repayment and accrual of interest on the unpaid balance do not begin until six months after a student ceases to be enrolled at least half time (6 credits). Interest on the loan is 5 percent and repayment may be extended over ten years, depending on the size of the loan. Borrowers who enter certain fields of teaching or specified military duty may qualify for partial or full cancellation of the loan. For more details on repayment, deferment, or cancellation options, contact the Office of Financial Aid.

**Federal Work-Study Program**

The Federal Work-Study Program is an employment program that pays eligible students in good academic standing an hourly wage for work done for the College or public or other nonprofit agencies. A student may work up to twenty hours a week while enrolled full time. Information on this program may be obtained in the Work-Study Office, 1308 James Hall.

**Veterans Administration educational assistance**

Information about Veterans Administration education benefits under the GI Bill and for post-Vietnam-era veterans may be obtained from any Veterans Administration office and from the Brooklyn College Veterans Affairs and Counseling Center, 0303 James Hall, (718) 951-5105. Educational benefits are described in VA pamphlet 20-67-1, which may be obtained from the Veterans Administration, 810 Vermont Avenue N. W., Washington, D.C. 20420.

**New York State programs**

**Tuition Assistance Program (TAP)**

The New York State Tuition Assistance Program is an entitlement program for students who meet all eligibility requirements. The maximum annual graduate award is $550; the minimum award is $100.

To receive payment under this program, a student must be:
- a U.S. citizen or a qualifying noncitizen,
- a legal resident of New York State,
- enrolled full time (12 credits),
- within the income limits of TAP eligibility,
- matriculated,
- in good academic standing,
- charged tuition of at least $200 per year, and
- clear of defaults on any federal student loans.

The New York State Higher Education Services Corporation produces specific award schedules each year. Academic progress and pursuit standards for state awards are printed in the Schedule of Classes each semester. Copies may be obtained in the Office of Financial Aid.

**City University programs**

**Graduate assistantships**

A small number of graduate assistantships are available in some departments and are awarded to graduate students on the basis of academic qualifications. The duties of graduate assistants may include teaching, research, laboratory work, graduate program administration, and similar assignments as specified by the academic department. Students should contact their graduate deputies about such assistantships.

**Fellowships**

As a graduate fellow, a student teaches, does research, or engages in other related activities. Some appointments are made possible by College funds, others by research grants from outside agencies. Application should be made to the department of major study.
There are also external fellowship opportunities for support both during the course of study and following completion of the degree or advanced certificate. Such programs include the Fulbright Scholars Program. Information on external fellowship opportunities is available in the Office of Research and Sponsored Programs, 2158 Boylan Hall, (718) 951-5622, and the Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall, (718) 951-5252.

**Internships**

Internships are opportunities to learn valuable skills, make professional contacts, and gain real-world work experience. Increasingly, internships lead directly to employment. Brooklyn College provides stipends to support students during their internships. Students may meet with an internship counselor to discuss appropriate internship placements. For more information, contact the Magner Center for Career Development and Internships, 1303 James Hall, (718) 951-5774, http://career.brooklyn.cuny.edu, or click on the “Careers” tab on the WebCentral portal.

**CUNYCAP: A graduate internship program**

The City University of New York Counseling Assistantship Program (CUNYCAP) aims to provide graduate students who have CUNY undergraduate degrees with the opportunity to intern in college offices. The program includes more than two hundred students CUNY-wide. At Brooklyn College, CUNYCAPs work in such offices as Admissions, Undergraduate Studies, Student Development, Athletics, and Student Affairs. Students receive $10 per hour for up to twenty hours a week and 6 credits of in-state CUNY tuition. The experience acquired from working within administrative offices is invaluable. The networking and support help students both academically and professionally. For an application or further information, contact the Office of the Dean of Student Affairs, 2113 Boylan Hall, or the CUNY Central Office, (212) 290-5709.

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**Scholarships, Awards, and Prizes**

**Brooklyn College scholarships, awards, and prizes**

Scholarships, awards, and prizes are given each year to Brooklyn College graduate students. Friends of the College, including trustees of the Brooklyn College Foundation, Inc., have joined to support the College’s continuing academic excellence through the establishment of endowed funds to support the education of qualified students.

Graduate students are encouraged to apply for Brooklyn College scholarship funding. Applications are available beginning in September for the following fall semester. For scholarship applications, scholarship listings, and information about how to apply for scholarships, awards, and prizes, visit http://scholarships.brooklyn.cuny.edu, or click on the “Careers” tab on the WebCentral portal.

The selection of recipients is based on criteria that may include academic performance, financial need, field of study, community service, extracurricular activities, career plans, and/or other stipulations established by the donor. Scholarships and awards range from partial to full tuition for the academic year. Some scholarships are restricted by academic departments or schools or, in some cases, by designated committees and are awarded to students in specific areas of study or special programs. Holding a scholarship usually does not adversely affect any federal or state financial aid a student may receive.

Each year several new scholarships and awards become available. The dollar amounts and availability of scholarships and awards listed are subject to change based on account activity, varying interest rates, and other factors.
External scholarships

There is information about an extensive array of external scholarships on the Internet. Students may search for scholarships online by using such key words as graduate scholarships, fellowships, or financial aid. Some sites allow registration that will report scholarships fitting a student's profile. Searching the Internet for scholarships is free; please check with the Office of Scholarships before contacting any external scholarship agency that is requesting a fee for its services.

In addition to the Internet, external scholarships may be located through places of employment, religious organizations, community and civic organizations, and libraries.

Donors of external scholarships should be instructed to send checks to the Scholarships Office. Checks should include the name of the scholarship, the term(s) for which the award is made, and the student's complete legal name and Social Security number. If the donor does not provide instructions otherwise, the amount of the scholarship check will be divided and applied to the student's account equally for the fall and spring semesters.

Conditions of scholarship and award receipt

Scholarships and awards are applied directly to a student's Brooklyn College account. Any funds that exceed the current semester charges are refunded by mail or direct deposit via the Bursar's Office unless otherwise instructed by the donor. Some types of financial aid may need to be adjusted prior to refunds being distributed. Students whose checks from external organizations require a signature will be contacted by the Scholarships Office.

Special Programs and Opportunities

Graduate Investment Program

The Graduate Investment Program (GIP) is dedicated to improving the quality of the graduate experience at Brooklyn College through a variety of programs and opportunities designed to enhance students' professional development. Programs include travel grants to permit students to attend and present at domestic and international professional conferences, and research grants that fund supplies and materials to support students' research and scholarship.

GIP also supports free intersession and academic-year workshops on grant writing, computer applications, professional communication, and professional writing, including helping with completion of master's theses. The free GIP Graduate Writing Assistance program funds staff in the Learning Center to provide one-on-one assistance in writing, editing, formatting, and other techniques in graduate-level writing for course assignments and the master's thesis. Each semester, more activities and services are added in response to student need and interest. Students should be sure that their current e-mail address is registered on the WebCentral portal in order to be kept up-to-date on these and other GIP activities. For more information about the Graduate Investment Program, contact the Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall, (718) 951-5252.

The New York City Louis Stokes Alliance for Minority Participation (NYC-LSAMP)

The NYC-LSAMP in science, technology, engineering, and mathematics (STEM) is an alliance of sixteen CUNY colleges and the CUNY Graduate Center. The goal of the program is to ensure a long-term capacity to produce significantly greater numbers of individuals from groups underrepresented in STEM careers through lasting changes achieved at participating institutions. The program offers financial support for undergraduate and graduate education and opportunities to be part of faculty-supervised research teams at Brooklyn College.
Eligible students must:

- be U.S. citizens or permanent residents admitted to full-time study at Brooklyn College;
- be a member of a group underrepresented in science research, including but not limited to African Americans, Native Americans, and Hispanics;
- major in a STEM discipline; and
- have a GPA of 3.00 or higher.

For more information, visit the LSAMP website, http://projectstem.net, or contact the program activity coordinator, 141 Ingersoll Hall Extension, (718) 951-4346. Deadline for summer and fall application is May 1; deadline for spring application is December 1.

**CUNY NIH Bridges to the Doctorate Program**

Brooklyn College is a partner in the CUNY Bridges to the Doctorate Program, a two-year transition program to the Ph.D. for talented CUNY students matriculated in master's programs in the sciences who intend to pursue doctoral study at CUNY that leads to careers in the biomedical sciences. The program provides tuition remission, mentoring, research opportunities, salary for work in a research laboratory, financial support for research supplies, opportunity to participate in local and national science conferences, and the opportunity for advanced admission into a CUNY doctoral program, among other benefits. The program aims to increase the number of biomedical researchers who come from groups currently underrepresented in the sciences. All participants in the program must:

- be U.S. citizens or permanent residents;
- be a member of a group underrepresented in the sciences, including but not limited to African Americans, Hispanics, Native Americans, and Pacific Islanders;
- be a matriculated student in a CUNY master's program in biochemistry, biology, chemistry, computer science, physics, psychology, or speech and hearing sciences; and
- have research, not clinical, interests and professional goals.

For further information, including applications, which are accepted throughout the year, contact the program director, Dr. Gail Smith, at gsmith@gc.cuny.edu.

**Latin/Greek Institute**

In the summer Latin/Greek Institute, Brooklyn College and the City University Graduate Center offer college-level work in language and literature. Master's students are eligible to apply. No previous knowledge of Latin or Greek is required. The Latin curriculum consists of study of forms and grammar, reading and analysis of representative texts from archaic remains through the Renaissance, and study of classical or medieval Latin literature. The Greek curriculum consists of language study and reading and analysis of representative texts in Attic, Ionic, and Koine Greek. Information and application forms may be obtained in the Department of Classics, 2408 Boylan Hall, (718) 951-5191, or at the Latin/Greek Institute Office, 365 Fifth Avenue, New York, New York 10016 (telephone: 212-817-2081). Further information is available on the institute's website, http://web.gc.cuny.edu/Classics/lg.htm.

**Professional Advancement and Continuing Education (P.A.C.E.)**

The Professional Advancement and Continuing Education program offers an opportunity for lifelong learning. New skills or careers may be acquired and talents developed in a congenial, professional atmosphere. P.A.C.E. offers noncredit courses for professional development and career enhancement as well as courses for personal development. Catalogs and information may be obtained at the P.A.C.E. office, 1439 Ingersoll Hall, (718) 951-4141, or by visiting the website, http://academic.brooklyn.cuny.edu/adulted.
Academic Regulations and Procedures

This chapter outlines academic regulations and procedures. Part I explains how to plan a program of study; part II discusses registration, grades, and transfer credit; part III describes academic requirements that must be met to qualify for a degree or advanced certificate as well as miscellaneous other matters. Administration of academic regulations and procedures is the responsibility of the Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall, (718) 951-5252.

Academic counseling for students in each program is available from the graduate deputy or program head in each department. Students should discuss their program of study and academic progress toward program completion with their graduate deputy or program head each semester either in person or by e-mail. For general academic advice and information, students may contact the Office of the Dean of Research and Graduate Studies. Students in the School of Education may contact the Office of the Dean of the School of Education, 2111 James Hall, (718) 951-5214.

I. Planning the program of study

At the beginning of course work, and no later than the first week of the semester, all graduate students should prepare a program of study with the appropriate departmental graduate deputy or program head. In order to keep track of academic program requirements, current students should maintain regular contact with their graduate deputy or program head. They may also consult the degree progress system through the WebCentral portal, https://portal.brooklyn.edu; click on the tab “My Info,” then choose “My Degree Progress.”

Matriculated students are responsible for meeting all requirements in their degree or advanced certificate program. Students should consult the appropriate sections of this Bulletin for all official information regarding requirements for their degree or advanced certificate as well as general College requirements. Degree requirements for each program may also be found on the College website, www.brooklyn.cuny.edu; click on “Academics,” then “Graduate Programs and Advisers,” then on the name of the program of interest.

Length of time to complete degree or advanced certificate

A master’s degree or advanced certificate must be completed within seven years inclusive of any official leave of absence, beginning with the student’s initial registration for graduate courses in a program at Brooklyn College in any status: matriculated, matriculated with conditions, nonmatriculated, nondegree, or provisional. (See the chapter “Admissions” for definitions of each.)

Academic residency

At least 60 percent of the credits required for a degree must be earned at Brooklyn College. Departments and/or programs may have additional academic residency requirements. See the section “Rules about transfer courses and credits,” below, for more information.

II. Registration, grades, and transfer credit

Registration for courses

Students are notified by mail and e-mail of dates for WebSIMS registration and where and when they may obtain a Schedule of Classes. These dates are available on the WebCentral portal. Students who have not been notified or who have questions should inquire in the Enrollment Services Center (ESC), 0100A Boylan Hall. Students may also consult the College website, www.brooklyn.cuny.edu, for registration information; click on “Academics,” then on “Course Information and Schedules.” The Schedule of Classes, published each semester, also contains complete instructions for telephone/Web registration, the College calendar, and other important information.

Students are expected to complete registration during the official registration period. Registration after the first three weeks of the semester, that is, after the end of the “late add” period, is not permitted. Students who are dropped for nonpayment will not be allowed to reregister for the dropped classes after the end of the “late add” period under any circumstances.

Limitation on credits per semester

Full-time status at the graduate level is defined as taking at least 12 credits. Master’s students may not register for more than 15 graduate credits a semester or more than 6 graduate credits in either of the two summer
sessions without special permission from the department and the Office of the Dean of Research and Graduate Studies. It is recommended that students with full-time employment or other major time commitments carry a maximum course load of no more than 6 to 9 credits each semester. Students on F-1 and J-1 visas must carry a full-time load unless a lower load is approved by the Office of International Student Services.

**Registration limitations for nonmatriculated and nondegree students**

Some graduate courses and programs do not admit nonmatriculated or nondegree students. Nonmatriculated and nondegree students should seek permission from their department before attempting to enroll in graduate courses.

**Adding, dropping, and withdrawing from courses**

A program change consists of adding, dropping, or withdrawing from a course; changing from one course section to another; or making any other alteration after registration is completed. Procedures for these transactions are described in the Schedule of Classes and in the online resources. A student may add a course only during the first three weeks of classes; the procedures for dropping, adding, and withdrawing depend on when they are done. In the second and third weeks, the adding of classes requires permission of the instructor and the department chairperson. Complete information about program changes, including deadlines and penalties, is in the Schedule of Classes.

The academic consequences of withdrawing from classes depend on when the official withdrawal takes place. A student may drop courses without academic penalty through the third week of classes and no record of the course or courses will appear on the student’s transcript. A student may withdraw from courses without academic penalty after the first three weeks of the semester until the conclusion of the tenth week; a grade of W will be assigned and will appear on the student’s transcript. W withdrawals may be made in person at the ESC or online on the WebCentral portal, https://portal.brooklyn.edu.

A student who attended a minimum of one class session and stopped attending but did not officially withdraw will receive a grade of W U, equivalent to a failure. A student who never attended a course but did not officially withdraw will receive a grade of W N, equivalent to a failure. In some cases, if the work is satisfactory and there is sufficient justification, a student may be permitted to withdraw from courses late without academic penalty. A petition for withdrawal must be filed with the Office of the Dean of Research and Graduate Studies. A student must give valid reasons supported by documented evidence of extenuating circumstances responsible for the withdrawal. A grade of W F denotes an official withdrawal initiated by the student or the College, indicating that the student was failing at the time of withdrawal.

Students should note that there are financial implications for courses dropped after the first day of classes, as specified in the Schedule of Classes and in “Refund policy” in the chapter “Tuition and Fees.” A student who withdraws from a course after the third week of the term receives no refund of tuition.

**Grades in courses**

Students receive a final letter grade in every course. Note that there is no “D” grade in the Graduate Division. The following grading system is used:

- **A+, A, A-**
- **B+, B, B-**
- **C+, C**
- **F** Failure
- **AUD** Auditor
- **FIN** Failure, for not resolving INC grade
- **INC** Term’s work incomplete
- **NC** No credit, applicable only to specifically designated courses
- **P** Passed, given for acceptable thesis and some research classes
- **PEN** Used in cases where there is an ongoing investigation connected to the Academic Integrity Process
- **SP** Satisfactory progress in thesis research
- **W** Withdrawn officially (no academic penalty)
- **WA** Withdrawn administrative (immunization requirements not fulfilled)
- **WF** Withdrawn with a failing status (counts as failure)
- **WN** Never attended (counts as failure)
- **WU** Withdrawn unofficially (student attended at least one class session; counts as failure)
A+ grade. The grade of A+ indicates a truly exceptional performance and is rarely given.

INC grade. A student who receives an INC grade for absence from the final examination in a course must apply for permission to take a makeup final examination or equivalent from the Office of the Dean of Research and Graduate Studies. The student must present an acceptable reason for the absence from the final examination, with supporting documentation. The makeup final examination or equivalent must be completed by the end of the semester following the term in which the course was taken. A fee of $25 is charged for one makeup examination. If the student fails to file for an absentee examination or if permission is denied, the grade will be changed to FIN (equivalent to an F); the date for the conversion from INC to FIN, depending on when the course was taken, appears in the Schedule of Classes.

A student who receives a grade of INC for failure to complete one or more requirements of a course, other than the final examination, must complete the required work within a period to be set by the instructor but not to exceed a period specified in the Schedule of Classes, starting from the end of the term in which the course was taken. If the student fails to do so, the grade will be changed to FIN (equivalent to an F). The date for this conversion from INC to FIN, depending on when the course was taken, appears in the Schedule of Classes. Students who have officially withdrawn from the College and have INC grades may be exempted from the above limitations.

PEN grade. The PEN grade is a temporary grade awarded when the disposition of the final grade requires further evaluation and when the incomplete grade is inappropriate. PEN is also used to facilitate the implementation of the Procedures for Imposition of Sanctions whereby the College must hold a student's grade in abeyance pending the outcome of the academic review process. Final determination of a grade will depend on final evaluation by the instructor or the outcome of the College's academic review process.

**Calculation of the GPA**

The grade point average is computed on a scale in which:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
<th>Credits</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
<td></td>
<td>36.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
<td>x 9</td>
<td>34.30</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
<td>x 3</td>
<td>9.90</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td>x 3</td>
<td>9.00</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>x 3</td>
<td>6.00</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td>x 3</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Total 24 72.00

The GPA is 72.00 ÷ 24 = 3.00.

The general rule for calculating the GPA. Grades earned in all courses acceptable toward the degree or advanced certificate are included in the calculation of the GPA. In particular, this includes 1) all 700-level courses in an academic department in which the student has taken one or more courses acceptable for the degree, and 2) all 600-level courses in an academic department in which the student has taken one or more 600-level courses acceptable for the degree. A student may not choose from among the courses that will be counted in calculating the GPA.

Calculation of the GPA when a student repeats a course. Credit cannot be earned twice for the same course. When a student repeats a course (or its equivalent) in which a grade of C or higher was earned, no credit is given for the repeated course. The grade for that course will appear on the transcript, preceded by an asterisk (*), but is not included in computing the grade point average. This rule applies when a student repeats courses taken at Brooklyn College or when a student completes courses at Brooklyn College that are equivalent to those taken at other CUNY institutions and that appear on his or her academic record.
Calculation of the GPA when a student changes programs. When a student changes degree programs without having earned a degree in the first program, the GPA is calculated in accordance with the requirements of the new program. Only those courses from the prior record that are applicable to the new degree program become part of the GPA calculation. (See “Change of program” in the chapter “Admission.”)

Calculating the GPA for a nondegree student who later becomes a degree candidate. Although a maximum of 15 credits earned in nondegree status may be applied to a degree, for a student who moves from nondegree to matriculated status in a program, all courses taken in nondegree status that would apply to the degree for a matriculated student must be included in calculation of the GPA. Students may not pick and choose which of these credits will be included in the GPA. This rule applies to both 700-level and 600-level courses. Additional information on nondegree status is in the chapter “Admission.”

F-Grade Replacement Policy. A graduate student who receives certain failing grades (F, FIN, W, N, or WU, but not an F resulting from an academic integrity violation) in a Brooklyn College course and who retakes that course at the College and earns a grade of C or higher may have the failing grade excluded from the calculation of the GPA and replaced by the passing grade by filing a request for F-grade replacement with the registrar. The original failing grade remains on the transcript, preceded by a pound sign (#) to indicate that the course grade is not included in the computation of the GPA. Students should monitor their transcripts in the WebCentral portal. If the F-grade replacement is not included on the transcript, students should check with the registrar in the ESC.

Use of the F-Grade Replacement Policy is limited to a total of 6 credits for the duration of a student's graduate career in any of the institutions of the City University of New York. A student who has used, for example, 4 credits of the 6-credit total may replace only a failed 2-credit course. After 6 credits have been used, the F-Grade Replacement Policy no longer applies; a student who fails a course and later repeats it will have both courses included in calculation of the GPA.

In order to take advantage of the F-Grade Replacement Policy, students must repeat the course at the same college where they originally received the failing grade. An F grade earned at Brooklyn College may not be made up by a course at another CUNY or non-CUNY school, and an F grade earned at another CUNY or non-CUNY school may not be made up at Brooklyn College. Note also that the F-grade Replacement Policy may not be used to replace an F or FPN grade resulting from a violation of CUNY's policy on academic integrity.

Rules about transfer courses and credits

Degree and advanced certificate candidates may apply for transfer credit for courses taken before enrollment at Brooklyn College and may apply to take graduate courses at non-CUNY institutions for transfer credit after enrolling at Brooklyn College. After enrollment at Brooklyn College, courses may also be taken at other CUNY colleges under a permit procedure.

Regardless of whether a student is matriculated or not, transfer credit is not granted for courses taken more than five years before a student's initial registration for graduate courses at Brooklyn College. The number of transfer credits granted for a course may not exceed the number of credits of an equivalent course at Brooklyn College. A maximum of 6 credits may be accepted as transfer credit (called “blanket credit”) for courses for which there are no direct equivalents at Brooklyn College.

The College limits the total number of transfer credits that can be counted toward a degree, whether the courses are from CUNY or non-CUNY schools. Students may receive transfer credit for up to 40 percent of the credits required for a degree. These credits must be transferred from other accredited graduate institutions, approved by the appropriate Brooklyn College department, and taken within the specified time limit. See below for special considerations about how transfer and permit grades taken outside of Brooklyn College are factored into the GPA.

To be allowed to count courses completed at other institutions prior to students' matriculation at Brooklyn College toward Brooklyn College degrees, students must file an application for transfer credit. The application may be obtained in the Enrollment Services Center, or on the WebCentral portal, https://portal.brooklyn.edu. Students must include with the application the catalog
of the college attended or a photocopy of the course description for each course submitted for transfer credit. An official transcript from the college attended must be forwarded to the Office of Transfer Evaluation Services. The application must be approved by the graduate deputy or chairperson of the major department. If the course was completed in a department other than the major department, approval of the graduate deputy or chairperson of the appropriate Brooklyn College department is also required. In teacher education programs, approval of the graduate deputy or the dean in the School of Education is required.

To be allowed to take and count toward the degree courses taken at other institutions while they are matriculated in a Brooklyn College master's program, students must apply to their program for permission, regardless of whether the courses will be taken at a non-CUNY school or a CUNY institution. However, the specific procedures for receiving permission for transfer credit differ depending on the institution where the courses will be taken.

For non-CUNY colleges. Currently matriculated students must apply in person to their graduate deputy or program head for permission to use transfer credits. Permission is obtained using the transfer credit application that may be obtained in the ESC. The form is also available online on the WebCentral portal, https://portal.brooklyn.edu. If the course to be taken is in a department other than the major department, approval of the deputy chairperson or chairperson of the appropriate Brooklyn College department is also required. For programs in the School of Education, approval of the deputy for graduate studies is required. With the application, students must include the catalog of the college where they plan to attend or a photocopy of the course description for each course they plan to take. Students who take a course at another college that has not been approved in advance may be denied transfer credit for the course.

For CUNY colleges. Currently matriculated students may apply in person, as described above, or online using the CUNY permit system. Instructions for filing a permit request electronically (an "e-permit") are posted on the registrar's page and accessed through WebCentral portal, https://portal.brooklyn.edu. Note that receiving permission is not the same thing as actually registering. To complete the permit process, students must pay for the course or courses through Brooklyn College and then register for the approved courses on the other campus.

Special considerations for transfer courses from non-CUNY institutions. Courses taken at non-CUNY institutions to be transferred must have been completed with a grade of B or higher; a grade of B- is not acceptable. The courses may not have been applied toward a degree earned previously. Grades in courses taken at non-CUNY institutions and accepted for transfer credit at Brooklyn College are not included in the calculation of a student's GPA.

Special considerations for courses taken by permit at other CUNY institutions. As of fall 2004, courses taken by Brooklyn College students at other CUNY colleges under the CUNY permit procedure are included in the calculation of a student's GPA and become part of the students' record, regardless of the grade earned.

**Attendance in courses**

The instructor may consider attendance and class participation in determining the term grade, although a student is not denied credit for a course solely on the basis of the attendance record. It is the student's responsibility to turn in all assignments on time. A student late for class may be excluded from the classroom.

To obtain a grade for a course that was not completed due to enlistment in the armed forces, Peace Corps, or VISTA, a student must have been enrolled for approximately thirteen weeks during the fall or spring term or five weeks during the summer term.

**Appeal of final grade**

An instructor may not raise a student's grade in a class by accepting additional work after the end of the semester, except in cases of INC grades (see the section "Grades in courses," above). A change can only be made if the instructor certifies that an error was made in entering or calculating a grade. Such a change is made on a Change of Grade Form that must be signed by the instructor and the department chairperson, and approved by the Office of the Dean of Research and Graduate Studies.

A student who thinks a final grade is incorrect should consult the instructor immediately after learning the grade. If the instructor does not recommend a
change of grade, a student may request a review by
the Departmental Grade Appeal Committee or the
department chairperson, who will convene a review
committee. If the committee and the instructor do
not come to an agreement on a grade change, the
student may make a final appeal to the Faculty Council
Committee on Graduate Admissions and Standards.
Grade appeals to this committee should be made
within thirty days of the decision of the departmental
committee; they may not be initiated later than two
years from the end of the term in which the course
was taken. Appeals older than two years will not be
considered unless there are legitimate, cogent, and
documented reasons for the student's not taking
action sooner.

III. Academic requirements
and procedures
This section explains general academic requirements
and procedures for graduate degree and advanced
certificate programs, including minimum GPA requirement;
academic probation and dismissal; comprehensive
examination, thesis, and language examinations; and
applying for graduation. See the chapter "Programs of
Study" for degree requirements in particular departments
or programs.

Academic residency
At least 60 percent of the credits required for a degree
must be earned at Brooklyn College. Departments
and/or programs may have additional academic
residency requirements.

Minimum GPA requirement
To receive a graduate degree or an advanced certificate,
a candidate must maintain and graduate with a minimum
GPA of 3.00. Individual departments may, with the
approval of Faculty Council, set higher grade requirements
in certain specified courses or groupings of courses
accepted toward the degree or advanced certificate.

Academic probation and dismissal
Students matriculated in degree and certificate
programs are expected to make appropriate academic
progress toward completion of the program. That
includes courses that are explicitly approved components
of the student's degree or certificate program or other
courses approved by the graduate deputy. Other markers
of satisfactory academic progress include completion of
all degree requirements within seven years after initial
registration and completion of such other milestones as
comprehensive examinations and theses. All students,
regardless of status—matriculated and nonmatriculated
as well as nondegree—must maintain an appropriate
grade point average; students with a GPA lower than
3.00 will be placed on academic probation. Students
on academic probation may not take the comprehensive
examination, submit a thesis, or earn a graduate degree
or advanced certificate unless specific approval is
granted by the Committee on Graduate Admissions
and Standards.

Academic probation is viewed as a warning, the purpose
of which is to alert the student that his or her academic
standing is in jeopardy so that appropriate steps can
be taken to correct the situation. Failure to do so will
make the student subject to dismissal from the degree
or certificate program; notification of dismissal is sent
by the registrar. Students on academic probation
because of a low GPA must increase their GPA to 3.00
or higher with courses creditable to the degree; they
may not improve their GPA by taking courses outside
of the program, unless these courses are approved in
writing as counting toward the degree by the graduate
deputy or program head.

A student on academic probation will be notified of
this action by the Office of the Dean of Research and
Graduate Studies, which will consult with the student's
graduate deputy or program head. Future registration
will require direct consultation with the graduate deputy
or program head and the Office of the Dean of
Research and Graduate Studies before being approved.

When a student is placed on academic probation for
any reason, a "stop" is placed on registration by the
Office of the Dean of Research and Graduate Studies. The
probation stop bars the student from registration
until appropriate academic advising takes place. Students
with probation stops should consult with their graduate
deputies or program heads. A written plan of action
to correct the situation leading to academic probation
must be developed and submitted by the deputy or
program head to the Office of the Dean of Research
and Graduate Studies. Once the Dean's Office has
agreed that an appropriate plan is in place, it will lift the
probation stop temporarily so that the student may
register for the current term.
The probation stop will remain in place, however, for any future registration until the cause for academic probation has been corrected. Students in academic difficulty are encouraged to discuss their status with the coordinator of graduate studies, 3238 Boylan Hall, who works with the deputies and program heads to assist students in achieving satisfactory academic standing. When a student is no longer on academic probation, the stop will be removed and he or she will be able to register in the normal manner.

Note that the probation stop is only one of several stops that can prevent successful registration. For example, unpaid bills for tuition or library fines will also block registration, as will failure to comply with immunization requirements.

**Comprehensive examinations, thesis, and language examinations**

To qualify for a master’s degree, candidates in most programs are required to pass a written comprehensive examination and/or submit an acceptable thesis or major research paper. An oral examination may also be required. Requirements for each program are specified in this Bulletin and on the BC WebCentral portal, https://portal.brooklyn.edu; click on “Academics,” then “Academic Information.”

When there is a choice between a comprehensive examination and a thesis, a student who fails a comprehensive examination may not then choose to write a thesis, nor may a student who has submitted an unacceptable thesis then choose to take a comprehensive examination.

Comprehensive examinations are designed to assess how well students have mastered the curriculum in their degree program and are taken near to the end of a student’s work in the program. Students who choose or are required to take a graduate comprehensive examination in their program must:

- be matriculated,
- have a GPA of at least 3.00,
- have no outstanding admissions or matriculation conditions, and
- be scheduled to complete all course requirements for the degree by the end of the semester in which the examination is taken.

Departmental exceptions to this rule are stated in the chapter “Programs of Study.”

Comprehensive examinations are given in the fall and spring semesters on dates stated in the calendar in the Schedule of Classes. Students in liberal arts programs should file applications to take the comprehensive examination with the Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall. Students in programs sponsored by the School of Education should file with the Office of the Dean of the School of Education, 2111 James Hall. The first date for filing an application for a comprehensive examination is the first day of classes of the semester in which the examination is to be taken. Applications must be submitted within thirty days of this date. An application must be filed each time a comprehensive examination is taken.

A comprehensive examination may not be taken more than twice. In extraordinary circumstances, exceptions may be granted by the Faculty Council Committee on Graduate Admissions and Standards; students may obtain information on filing a petition to this committee in the Office of the Dean for Research and Graduate Studies, 3238 Boylan Hall.

Thesis. A student in a liberal arts or sciences program who chooses or is required to write a thesis must consult with the graduate deputy before registering for any required thesis research course. A student in a School of Education program who plans to write a thesis must consult with the appropriate program head.

Instructions for writing and filing a thesis may be obtained in the Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall. Some programs provide supplemental instructions. Unless otherwise noted in the department requirements, a student registers for the thesis research course only once. The grade of SP (satisfactory progress) is assigned until the thesis is accepted. Thesis research credit is assigned and a grade of P (pass) is entered on the record when the thesis is accepted.

Language examinations. In some programs, students are required to pass one or more foreign language examinations given by the department or the Educational Testing Service. Language requirements, if any, are stated under a program’s degree requirements in this Bulletin and on the WebCentral portal, https://portal.brooklyn.edu.
Applying for graduation and the diploma
During the term in which students expect to graduate, they must complete the Declaring Your Candidacy for Graduation form and submit it to the Office of the Registrar. The registrar will do a full review of the student's academic record to determine whether all the degree requirements have been or will soon be completed. This form should be filed no later than the end of the third week of the semester in which graduation is expected. Failure to meet this deadline may delay graduation. Applications for graduation may be filed in the Enrollment Services Center or on the WebCentral portal at https://portal.brooklyn.edu; click on “WebSIMS.” Students may also call the Office of the Registrar, (718) 951-5491. All degree and advanced certificate requirements and all forms and procedures related to those requirements must be completed by the end of the term in which the student expects to graduate. Students who previously filed for graduation but did not graduate must file again.

Maintenance of matriculation
As required by the University, a nonrefundable maintenance of matriculation fee must be paid by students who do not register for degree-related courses in a given semester but 1) wish to take a comprehensive examination, submit a thesis, or resolve an INC grade; 2) expect to graduate in that semester; or 3) wish to use the academic facilities of the College during that semester. This fee may not be waived.

Applicable Bulletin
A candidate for a degree or advanced certificate may complete the program requirements as stated in any single Bulletin in effect during the time of the student’s continuous attendance in a department or program, including any official leaves of absence. If continuous attendance is broken for any other reason, the Bulletin requirements will be those in effect when the student reregisters. The student may not select particular requirements from different Bulletins.

Readmission
After a semester of absence, students who wish to register must apply for readmission in the Enrollment Services Center, 0100A Boylan Hall. Those who wish to matriculate in a different program must file an application to that program in the Office of Graduate Admissions, 1602 James Hall. The application will be reviewed by the graduate program that the student has applied to; admission to a different program is not automatic.

Official leave of absence
A degree or advanced certificate candidate whose GPA is at least 3.00 may be granted an official leave of absence for up to a cumulative maximum of two years. Official leave of absence forms may be obtained in the Office of the Dean of Research and Graduate Studies, 3238 Boylan Hall, or the Enrollment Services Center, 0100A Boylan Hall. The form is also available on the WebCentral portal, https://portal.brooklyn.edu. The length of an official leave of absence does not affect the deadline for completion of the requirements for the master's degree or advanced certificate. The seven-year time limitation includes all periods of nonattendance for any reason except service in the armed services, Peace Corps, or VISTA.

Change of name
A change of name must be made in person, with supporting documentation, in the Office of the Registrar, 1118 Boylan Hall.

Change of address
A change of address may be made in person at the Enrollment Services Center or on the WebCentral portal, https://portal.brooklyn.edu; click the tab “My Info,” then “Personal Info.”

Veterans' benefits
Veterans claiming benefits must complete application forms each term after registration in the Veterans Affairs and Counseling Center, 0303 James Hall.
Student Rights and
College and
University Rules

As a public institution of higher education that is part of the City University of New York and governed by both state and federal rules, the College and its students, faculty, and staff are enjoined by various policies on conduct and by set procedures. All members of the Brooklyn College community are expected to be familiar with these regulations and to comply with them. Those currently in effect are summarized below with links to relevant websites for the complete text of each, subject to change by the appropriate authorities.

Policies concerning standards of behavior for the College community

Maintenance of public order
The tradition of the University as a sanctuary of academic freedom and center of informed discussion is long-honored and must be guarded vigilantly. The principle of intellectual freedom, rights of professors to teach and engage in scholarly research, and rights of students to learn and express their views free from external pressures and interference are deeply held values of institutions of higher education, including Brooklyn College. CUNY's regulations to secure these benefits and ensure the academic freedom for all in this educational community and the penalties for violations may be found on the CUNY website, www.cuny.edu; click on the tab “Current Students,” then “Regulations for the Maintenance of Public Order” under “Student Life.”

Nondiscrimination and equal opportunity
The City University of New York, located in a historically diverse municipality, is committed to values and policies that enhance respect for individuals and their cultures. The University believes that, in order to benefit from this diversity, it must foster tolerance, sensitivity, and mutual respect among all members of its community. Efforts to promote diversity and to combat bigotry are an inextricable part of the educational mission of the University. The University does not condone and will not tolerate discrimination in employment or in its educational programs and activities. It continues to recognize the importance of maintaining at each campus equal access and opportunity for qualified students, faculty, and staff from all ethnic and racial groups and from both sexes. More information about the University's nondiscrimination policy may be found on the CUNY website, www.cuny.edu; click on the tab “Current Students,” then “CUNY Nondiscrimination Policy” under “Policies.”

To this end, it is Brooklyn College's policy that its educational and employment programs will be administered without regard to age, carrier status, citizenship status, color, disability, gender, genetic predisposition, marital status, military status, national origin, race, religion, Sabbath observance, sexual orientation, transgender, veteran status, victim of domestic violence, or other factors irrelevant to productive participation in the programs of the College. Further, in keeping with local, state, and federal mandates and recognizing the many benefits that accrue from a community of diverse experience and cultural heritage, the College pledges to act affirmatively in providing employment opportunities for qualified women, racial and ethnic minorities, Vietnam-era veterans, and individuals with disabilities. All Brooklyn College employees—administrators, members of the faculty, and staff—and students are expected to cooperate fully in meeting these legal and ethical mandates.

CUNY policy and New York State and federal law require that the College provide qualified individuals with disabilities the opportunity to participate in programs, activities, and employment. CUNY's statement on “Disability Accommodation Procedures” may be found on the CUNY website, www.cuny.edu; click on the tab “Faculty & Staff,” then the relevant section under “Personnel Policies and Procedures.” More information on College services for students with disabilities appears in the chapter “Additional Campus Services and Facilities” of this Bulletin.

Inquiries or complaint-related matters pursuant to any of the equal opportunity laws, including Executive Order 11246, Title VII of the Civil Rights Act, the Rehabilitation Act of 1973, the Vietnam Era Veterans' Readjustment Act of 1974, the Americans with Disabilities Act, Title IX of the Education Amendments, and others, may be addressed to the Office of Affirmative Action, Compliance, and Diversity, 2147 Boylan Hall, (718) 951-4128.

Students with disabilities may wish, in the first instance,
to contact the director of the Center for Student Disability Services, 138 Roosevelt Hall, (718) 951-5538.

**Workplace violence**
The City University of New York Workplace Violence Policy and Procedures prohibits violence in the workplace. Violence, threats of violence, intimidation, harassment, coercion, and other threatening behavior toward people or property will not be tolerated. Complaints involving workplace violence will be given the serious attention they deserve. Students may file a complaint in the Office of the Dean of Student Affairs, 2113 Boylan Hall, or in the Office of Campus and Community Safety Services, 0202 Ingersoll Hall. The full text of the policy is available in both of these offices and on the CUNY website, www.cuny.edu; click on the tab “Faculty & Staff,” then “Workplace Violence Prevention” under “Policies and Procedures—General.”

**Sexual harassment**
It is the policy of CUNY to promote a cooperative work and academic environment in which there exists mutual respect for all University students, faculty, and staff. Harassment of employees or students based upon gender is inconsistent with this objective and contrary to the University’s nondiscrimination policy. Sexual harassment is illegal under federal, state, and city laws, and will not be tolerated within the University. The complete text of the CUNY sexual harassment policy may be found on the CUNY website, www.cuny.edu; click on the tab “Current Students,” then “Policy against Sexual Harassment” under “Policies.”

The University’s policy against sexual harassment is carried out at Brooklyn College through the Sexual Harassment Awareness and Intake Committee, which consists of students and members of the faculty, administration, and staff who review all complaints of sexual harassment and undertake to resolve complaints, using both formal and informal means. Any student or other member of the College community may report allegations of sexual harassment on an informal, confidential basis to any member of this committee. Information on the College’s procedures for dealing with complaints about sexual harassment is available online on the WebCentral portal, https://portal.brooklyn.edu; click on the tab “Campus Info,” then “Rights and Regulations;” then “Brooklyn College Policies.” Specific information on the College’s procedures and the names and contact information for the panel members may be found at the link for “Policies and Procedures against Sexual Harassment at Brooklyn College.”

**Hate crimes**
All members of the Brooklyn College community are subject to New York State law on hate crimes. The law applies to criminal acts involving violence, intimidation, and destruction of property based upon bias and prejudice. In such crimes, victims are intentionally selected, in whole or in part, because of their race, color, national origin, ancestry, gender, religion, religious practice, age, disability, or sexual orientation. Information on the law and examples of the hate crimes that are prohibited may be found on the WebCentral portal, https://portal.brooklyn.edu; click on the tab “Campus Info,” then “Rights and Regulations;” then “Brooklyn College Policies.” Follow the links there to “Hate Crime Act of 2000” and “Offenses under the Hate Crimes Statute.”

**Smoke free policy**
The Board of Trustees of The City University of New York has declared all buildings at CUNY, including those at Brooklyn College, to be smoke free. Smoking is prohibited in all facilities owned, leased or operated by CUNY.

**Drug, alcohol, and tobacco use**
The New York State Legislature has made the possession or purchase of certain drugs without authorization a crime, including the selling or giving of alcohol to any “visibly intoxicated person.” The possession and consumption of alcohol is illegal under state law for those under twenty-one years of age, as is the selling of tobacco products to anyone under age eighteen. All members of the Brooklyn College community are expected to comply with these laws. No member of the academic community who may be liable for criminal prosecution and conviction will receive special consideration due to his or her status within the College. The police and other law enforcement agencies are required to investigate violations of the law wherever these may occur. Search warrants may be obtained and undercover agents placed on the campus without College approval or knowledge. Disciplinary proceedings will be instigated against any member of the academic community who uses, sells, or transfers illegal drugs on campus.
The College recognizes the personal difficulties and complexities that are associated with drug and alcohol use. Members of the College community seeking help are invited and encouraged to use the confidential therapeutic and counseling services that are available. Professional substance-abuse counselors together with trained students have proved of great assistance over the years in drug and alcohol rehabilitation. An appointment for these services may be obtained by calling the Personal Counseling Office, 0203 James Hall, (718) 951-5363. More information about the Brooklyn College and CUNY policies on drug, alcohol, and other substance abuse and resources for assistance with abuse problems may be found on the WebCentral portal, https://portal.brooklyn.edu; click on the tab “Campus Info,” then “Rights and Regulations,” then “Brooklyn College Policies,” then “Drug and Alcohol Education—Policies and Procedures Booklet.”

Policies concerning students and faculty

Policies on submission of fraudulent or incomplete admissions materials
The submission of such documents in support of applications for admission as transcripts, diplomas, test scores, references, or the applications themselves that are forged, fraudulent, altered from the original, materially incomplete, obtained under false pretenses, or otherwise deceptive (collectively referred to as fraudulent documents) is prohibited by CUNY and may be punishable by a bar on applying for admission, suspension, and/or expulsion. The term “applications for admission” includes transfer applications. Materially incomplete applications include applications that fail to include all prior post-high school college-level courses, regardless of whether the courses were taken in the United States or abroad, whether the applicant received a degree or the courses were taken for credit, or whether the applicant is changing academic majors or fields. The complete text for this policy may be found on the CUNY website, www.cuny.edu; click on the tab “Current Students,” then “Application Documents” under “Policies.”

Student complaints about faculty
The University and its colleges have a variety of procedures for dealing with student-related issues, but those procedures generally do not cover student complaints about faculty conduct in the classroom or other formal academic settings. The University respects the academic freedom of the faculty and will not interfere with it as it relates to the content or style of teaching activities. At the same time, however, the University recognizes its responsibility to establish procedures for addressing student complaints about faculty conduct that is not protected by academic freedom and not addressed in other procedures. CUNY’s policy on student complaints about faculty may be accessed at www.cuny.edu; click on the tab “Current Students,” then “Student Complaints” in the section “Policies.”

Academic integrity
The CUNY Board of Trustees has adopted a policy on academic integrity that applies to all students at Brooklyn College. Academic dishonesty is prohibited and is punishable by penalties, including failing grades, suspension, and expulsion. Cheating is the unauthorized use or attempted use of material, information, notes, study aids, or devices or communication during an academic exercise. Plagiarism is the act of presenting another person’s ideas, research, or writing as one's own. Internet plagiarism includes submitting downloaded papers or part of term papers, paraphrasing or copying information from the Internet without citing the source, and cutting and pasting from various sources without proper attribution. The full text of the CUNY Academic Integrity Policy may be found on the CUNY website, www.cuny.edu; click on the tab “Current Students,” then “Academic Integrity” in the section “Policies.” Brooklyn College’s procedures for implementing the CUNY policy and other explanatory material may be found on the WebCentral portal, https://portal.brooklyn.edu; click on the tab “Campus Info,” then “Rights and Regulations,” then “Brooklyn College Policies.”

Acceptable use of computer resources
The computer resources of Brooklyn College and the City University of New York must be used in a manner that is consistent with the University's educational purposes and environment. CUNY recognizes that there is a concern among the University community that because information created, used, transmitted, or stored in electronic form is by its nature susceptible to disclosure, invasion, loss, and similar risks, electronic communications and transactions are particularly vulnerable to infringements of academic freedom. CUNY's commitment to the principles of academic
freedom and freedom of expression includes electronic information. Therefore, whenever possible, CUNY will resolve doubts about the need to access CUNY computer resources in favor of a user's privacy interest.

However, the use of CUNY computer resources, including the use for electronic transactions and communications, like the use of other University-provided resources and activities, is subject to the requirements of legal and ethical behavior. This policy is intended to support the free exchange of ideas among members of the CUNY community and between the CUNY community and other communities, while recognizing the responsibilities and limitations associated with such exchange. The full text of the CUNY Policy on Acceptable Use of Computer Resources may be found on the CUNY website, www.cuny.edu; click on "Faculty & Staff," then "Computer Use Policy" in the section “Policy and Procedures—General.”

All users of computer resources are expected to act in a spirit of mutual respect and cooperation, and to adhere to the regulations for their use set forth below. Users of CUNY computer resources therefore:

- must have a valid authorized account to use computer resources and may use only those resources that are specifically authorized. Accounts may be used only in accordance with their authorized purposes.
- are responsible for safeguarding their computer account. Passwords should be changed frequently and not be disclosed to anyone. All necessary precautions should be taken to protect the account, no matter what type of computer resources are used.
- may not circumvent system protection facilities.
- may not knowingly use any system to produce system failures or degraded performance.
- may not engage in unauthorized duplication, alteration, or destruction of data, programs, or software. Data, programs, or software belonging to others may not be transmitted or disclosed; copyrighted material may not be duplicated.
- may not engage in abusive or improper use of computer hardware. This includes, but is not limited to, tampering with equipment, unauthorized attempts at repairing equipment, and unauthorized removal of equipment components.
- may not use computer resources for private purposes, including but not limited to, the use of computer resources for profit making or illegal purposes.
- may not use computer resources to engage in abuse of computer personnel or other users. Such abuse includes the sending of abusive, anonymous, or unsolicited messages within CUNY or beyond via network facilities.

The use of College computer resources may be subject to College regulations. Everyone is expected to be familiar with these regulations.

The University reserves the right to monitor, under appropriate conditions, all data contained in the system to protect the integrity of the system and to ensure compliance with regulations. Any user who is found to be in violation of these rules shall be subject to the following:

- suspension and/or termination of computer privileges;
- disciplinary action by appropriate College and/or University officials;
- referral to law enforcement authorities for criminal prosecution; and/or
- other legal action, including action to recover civil damages and penalties.

Peer-to-peer file-sharing programs and copyright violations. Peer-to-peer (P2P) file-sharing programs have become a popular way to exchange music, movies, games, and software over the Internet. Academic applications of these programs are also expanding, but their use is not without risk. P2P file-sharing programs are not illegal. However, they can be used for illegal copying or distributing of music, movie, software, and other files. Most material is copyrighted; downloading or distributing such material without permission of the copyright holder is a violation of U.S. copyright law. If students use a P2P program to download, trade, or share files without appropriate permission, they may be liable for money damages and even jail time. This kind of use is also in violation of CUNY’s policy on the use of CUNY computer resources and may subject students to disciplinary action. A statement from CUNY about file-sharing and copyright may be found on the CUNY website, www.cuny.edu; click on the tab “Current Students,” then “File Sharing & Copyright Information” under the section “Student Life.”
Nonattendance because of religious beliefs
The New York State Education Law provides that no student shall be expelled or refused admission to an institution of higher education because he or she is unable to attend classes or participate in examinations or study or work requirements on any particular day or days because of religious beliefs. Students who are unable to attend classes on a particular day or days because of religious beliefs will be excused from any examination or study or work requirements. Faculty must make good-faith efforts to provide students absent from class because of religious beliefs equivalent opportunities to make up the work missed; no additional fees may be charged for this consideration. If classes, examinations, or study or work requirements occur on Friday after 4 p.m. or on Saturday, similar or makeup classes, examinations, or study or work requirements will be made available on other days, where possible and practical. The faculty and the administration will not allow any adverse or prejudicial effects to accrue to students availing themselves of this regulation. If students have complaints about the application of this policy, they are entitled to bring action or a proceeding for enforcement of their rights in the Supreme Court of Kings County.

Nondiscrimination for students with disabilities
Brooklyn College, as a unit of the City University, does not and will not discriminate against qualified students with disabilities in access to its programs and services. Disability, for purposes of this policy, is defined to mean a “physical or mental impairment that substantially limits one or more major life activities,” such as walking, seeing, hearing, speaking, breathing, or learning.

Brooklyn College operates its programs and activities so that these programs and activities will provide meaningful accessibility to qualified students with disabilities and reasonable accommodation in delivery of educational and other services. This commitment is reflected in adjustments to academic and other activities and structural modifications to College facilities if this is required for accessibility and is fiscally reasonable and does not fundamentally alter the program or activity.

Students who need individual accommodations should direct their needs to the Center for Student Disability Services, 138 Roosevelt Hall, (718) 951-5538. If a requested academic adjustment cannot be implemented or if a student believes that he or she is being discriminated against on the basis of a handicap or disability, the student should contact the coordinator of the center. Students may also consult with the Office of Affirmative Action, Compliance, and Diversity, 2147 Boylan Hall, (718) 951-4128, which will, as appropriate, refer the matter to the center, attempt to resolve the dispute among the parties, or accept a formal complaint in accordance with applicable procedures.

Immunization requirements
New York State health law requires students to submit documentation proving immunity to measles, mumps, and rubella as well as a Meningococcal Meningitis Vaccination Response Form. Information on procedure for proving immunity is in the chapter “Admission” in this Bulletin. Information on the New York State Department of Health immunization requirements may be found on the College website, www.brooklyn.cuny.edu; click on “Admissions,” then “Immunization Requirements.” Questions may be referred to the Health Programs/Immunization Requirements Office, 0710 James Hall, (718) 951-4505 or -4266, hpo@brooklyn.cuny.edu.

Medical withdrawal and reentry
As part of its commitment to the academic success and personal growth of its students, CUNY and its constituent campuses are responsible for providing a safe learning and working environment for students, faculty, staff, and other members of the University community. CUNY has a policy that deals with students’ behavior that is attributable to a medical condition and that presents a direct threat of harm to self or others, or substantially disrupts the learning and working environment of others. In such situations, the safety and security of the campus community, including the individual student, is paramount. Besides taking action to protect the security and safety of the campus community, a college may address the student’s conduct to determine whether action under this policy or under the student disciplinary process is appropriate. When a student’s conduct directly threatens or substantially disrupts the learning or working environment of others and appears to relate to a medical condition, the campus may, at its option, address the student’s conduct either in accordance with this policy or through the student disciplinary process. If the student’s conduct constitutes a threat solely to himself or herself, it should be addressed under this policy rather than the disciplinary process.
This policy may be read in full on the CUNY website, www.cuny.edu; click on “Current Students,” then “Medical Withdrawal and Re-entry Policy” in the section “Policies.”

Policies concerning privacy and student records

Access to student records (FERPA procedures)

The College abides by provisions of the Federal Education Rights and Privacy Act of 1974, a federal law regarding the privacy of student records and the obligations of the institution, primarily regarding the release of records and access provided to records. The complete texts of the revised CUNY Board of Higher Education policy as adopted on April 23, 1979, and the Family Educational Rights and Privacy Act of 1974, as amended, are available for review in the Office of the Registrar, 1118 Boylan Hall.

Under these provisions, 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, and of policies for reviewing and expunging student records, procedures for granting access to them and for challenging them, cost charged for copies, and other rights and requirements under the law. Students also have the right to deny access by others without their written consent. Brooklyn College may disclose, without consent, directory information (student's name, address, telephone number, e-mail address, date and place of birth, dates of attendance, major field of study, class, year or date of expected graduation, degrees and awards received, participation in officially recognized activities and sports, photograph, and most recent educational agency or institution attended, and the height and weight of members of athletic teams) to persons having a legitimate interest in this information. Students may keep any or all of the information above from being released without their written consent. Brooklyn College may disclose without consent, directory information (student’s name, address, telephone number, e-mail address, date and place of birth, dates of attendance, major field of study, class, year or date of expected graduation, degrees and awards received, participation in officially recognized activities and sports, photograph, and most recent educational agency or institution attended, and the height and weight of members of athletic teams) to persons having a legitimate interest in this information. Students may keep any or all of the information above from being released without their written consent. Brooklyn College may disclose without consent, directory information (student’s name, address, telephone number, e-mail address, date and place of birth, dates of attendance, major field of study, class, year or date of expected graduation, degrees and awards received, participation in officially recognized activities and sports, photograph, and most recent educational agency or institution attended, and the height and weight of members of athletic teams) to persons having a legitimate interest in this information. Students may keep any or all of the information above from being released without their written consent.

Requests for records in other locations may be oral or written. Requests will be granted or denied within fifteen days of receipt of the request. If the request is denied or not responded to within fifteen days, the student may appeal. Additional information regarding the appeal procedure will be provided to the student if a request is denied.

A student who wishes to inspect and review his or her educational records may make the request to the student records access officer in the Office of the Registrar or to the person in charge of the office who is the official custodian of the record in question, but a request pertaining to records in the custody of a teacher or counselor should be made directly to that teacher or counselor. Requests made to the student records access officer in the Office of the Registrar must be made by completing a request form. Requests for records in other locations may be oral or written. Requests will be granted or denied within fifteen days of receipt of the request.

If the request is granted, the student will be notified of the time and place where records may be inspected. If the request is denied or not responded to within fifteen days, the student may appeal. Additional information regarding the appeal procedure will be provided to the student if a request is denied.

A student may request an amendment of education records that he or she believes are inaccurate or misleading. In this case, the student should write to the College official who is responsible for the record, clearly identify the part of the record that is in question, and specify why it should be changed. If the College decides not to amend the record, the student will be notified of the decision and advised of his or her right to a hearing. When the student is notified, additional information will be provided regarding the hearing procedures.

Policy on withholding student records

According to CUNY Board of Trustee resolution, students who are delinquent and/or in default in any of their financial accounts with the College, the University, or an appropriate state or federal agency for which the University acts as either a disbursing or certifying agent, and students who have not completed exit interviews, as required by the National Direct Defense Student Loan (now Perkins Loan) Program and the Nursing Student Loan Program, are not to be permitted to register or obtain a copy of their grades, financial aid transcripts, transcripts of their academic records, or certificates or degrees, nor are they to receive funds under the federal campus-based student assistance program.
programs or the Pell (Basic) Grant Program unless the Financial Aid Office waives this regulation in writing due to cases of exceptional hardship, consistent with federal and state regulations.

**Freedom of information and process to access public records**

Requests to inspect public records at the College should be made to the records access officer, 1405 Boylan Hall, (718) 951-3118. Public records are available for inspection and copying by appointment only. If a request for access to records is denied, students have a right to appeal to the CUNY general counsel and vice-chancellor for legal affairs. Copies of the CUNY Procedures for Public Access to Public Records and the appeal form are available at the reference desk of the Brooklyn College Library and on the WebCentral portal, https://portal.brooklyn.edu; click on “Campus Info,” then “Rights and Regulations,” then “Brooklyn College Policies,” then “Freedom of Information Law Notice” and “CUNY Procedures for Public Access to Public Records.”

**Sale of term papers**

Title I, Article 5, Section 213-b of the New York State Education Law provides in pertinent part that: “No person shall, for financial consideration, or the promise of financial consideration, prepare, offer to prepare, cause to be prepared, sell or offer for sale to any person any written material which the seller knows, is informed, or has reason to believe is intended for submission as a dissertation, thesis, term paper, essay, report, or other written assignment by a student in a university, college, academy, school, or other educational institution to such institution or to a course, seminar, or degree program held by such institution.”

**Grievance procedures**

Grievance procedures for specific College rules and regulations differ depending on the nature of the complaint. Any student who has a grievance against another member of the College community may receive help with processing an informal complaint or in filing a petition of complaint in the Office of the Dean of Student Affairs, 2113 Boylan Hall.

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**Brooklyn College Student Center**

The Brooklyn College Student Center, as part of the Division of Student Affairs, contributes to students' educational experience at the College through cocurricular programs and student governance and leadership. The Student Center offers meeting and conference rooms, a computer corner, game rooms, art displays, study rooms, and a television room. It houses the Student Center Student Advisory Board, three student government offices, the Inter-Greek Council office, the Academic Club Association, and a Students Engaged in Responsible Volunteer Action (SERVA) reception area. It is home also to the Center for Student Development and Leadership Programs (the processing center for student activity monies allocated to student organizations). The Student Center provides many special services and programs for student organizations as well as the rest of the larger community and frequently schedules local community meetings and conferences in the center, although priority scheduling is granted to the campus community. The Brooklyn College Conference Center, a state-of-the-art meeting complex open to students, faculty, staff, and residents of the borough, is located on two newly renovated floors at the top of the Student Center. It offers flexible meeting spaces with advanced presentation technology, able to accommodate large or small assemblies, conventions, movie screenings, and award ceremonies.

**Graduate Student Organization**

The Graduate Student Organization (GSO), located in 308-309 Student Center, is the student government of the Division of Graduate Studies. Each Brooklyn College graduate student contributes to the graduate student government, which is funded by part of the Student Activity Fee. GSO elections are held annually; any matriculated graduate student in good standing may seek office. Meetings of the organization are open to all students.
The GSO polls members, reports their opinions, and represents them on issues that concern them. It holds colloquia and other meetings on subjects of professional and social interest to the academic community. It sponsors and allocates funds to associations of graduate students in individual academic departments. It publishes a newsletter during the year. Further information may be obtained from the GSO office, (718) 951-5503.

Recreational activities
Recreational activities are open and unstructured; appropriate facilities are available. Schedules for activities are published at the beginning of each semester. The new West Quad building will offer excellent resources for many forms of recreation; until the building is completed, recreational facilities, including a fitness center, basketball courts, and tennis courts, may be found in and next to Roosevelt Hall. To use the facilities, students must present a valid Brooklyn College identification card to the Recreation Center, 125 Roosevelt Hall, (718) 951-5366. The rules for use of recreational facilities when the West Quad building opens will be posted in that building as well as on the WebCentral portal.

Intramural sports
Intramurals provide structured tournaments in a variety of sports for men, women, and coed teams. The program welcomes all students and faculty and staff members regardless of their athletic abilities. Information may be obtained in the Recreation and Intramurals Office, 125 Roosevelt Hall, (718) 951-5366.

Student service and volunteer opportunities
The Students Engaged in Responsible Volunteer Action (SERVA) program, Brooklyn College's volunteer registry, provides recognition for students who provide volunteer service in the community and on campus. Among the on-campus programs are the Brooklyn College Emergency Medical Squad, the Health Programs/Immunization Requirements Office, the Student Center, and service with new-student orientations, campuswide committees, disaster relief, blood drives, and work with those in need. For more information, contact the Peer Education Services Office, 524 Student Center, serva@brooklyn.cuny.edu.

New York Public Interest Research Group, Inc. (NYPIRG)
The New York Public Interest Research Group, Inc. (NYPIRG) is a nonprofit, nonpartisan research and advocacy organization established, directed, and supported by New York State college students. NYPIRG provides the structure through which concerned students may work for social change in such areas as consumer protection, environmental quality, fiscal responsibility, political reform, equal opportunity, and social justice while gaining experience in areas of research, government, and citizenship. The NYPIRG office is in 0302 James Hall, (718) 859-7177.

Student honors
Students are nominated each year for selection to the Dean's Honor List, Division of Research and Graduate Studies. Each graduate department or program is asked to submit names according to strict criteria available in the Office of the Dean of Research and Graduate Studies.

Alpha Epsilon Rho is a national honor society in radio and television. Both undergraduate and graduate students are eligible on the basis of achievement.

Kappa Delta Pi is a national honorary organization in education. Members are selected from undergraduate juniors and seniors and graduate students.

Sigma Xi, the Scientific Research Society, encourages original investigation in the natural sciences, pure and applied. The fields of activity of the society include the physical sciences, the life sciences, the earth sciences, and mathematics. The Brooklyn College Chapter elects students to membership in the society on the basis of research achievement in one of these fields.

Pizer Graduate Student Colloquium
The Pizer Graduate Student Colloquium is a series of lectures and presentations by graduate students, usually based on, but not limited to, their master's thesis research or creative projects. Graduate students are chosen from all departments and programs. The colloquium is sponsored by the Office of the Dean of Research and Graduate Studies.
Academic Resources

Libraries

Brooklyn College Library
http://library.brooklyn.cuny.edu

The Brooklyn College Library provides integrated information support for instructional and research programs. The library is technologically the most advanced in the City University of New York as well as one of the largest in the New York City metropolitan area. Occupying the library's 6.5 acres of space are more than 2,300 seats, 21.5 miles of shelving, eighteen group study rooms, five computer classrooms, and more than five hundred computers for student and faculty access in a beautiful, light-filled setting conducive to study and research. Many seats are configured for computer use, including laptops, and wireless network connectivity is widely available.

The physical collections total more than 1,300,000 volumes, 50,000 print and electronic journals, and about 25,000 audiovisual units (sound recordings, videotapes, and DVDs). The library's substantial digital collections include both electronic subscriptions and works of reference as well as more than 40,000 electronic books. The library's collections are represented in CUNY+, the online catalog of the City University of New York. The library building also houses the Brooklyn College Archives, the New Media Center, and both academic and administrative computing.

Brooklyn College librarians provide extensive in-person and online reference service to faculty and students. The collections support both graduate and undergraduate study in the humanities, social sciences, and sciences. The library also holds important archival and special collections, among which are the Brooklyniana Collection and the Manuscripts Collection.

Walter W. Gerboth Music Library
Second floor, Brooklyn College Library

The music library is named in memory of its principal founder and first librarian, respected teacher and scholar Walter W. Gerboth. It offers facilities for music study, research, and listening. The collection comprises thousands of scores and books about music and dance (classical, popular, world), many of which circulate for home use; sound and video recordings; and journals and other serials, including an important collection of composers' complete works editions and monumental editions. The collection is complemented by that of the H. W. Iley Hitchcock Institute for Studies in American Music, 415 Whitehead Hall.

Specialized libraries

A number of smaller, specialized libraries are housed within academic departments and centers. These include the Meier Bernstein Art Library (Art) and S. Eugene Scalia Memorial Library (Center for Italian American Studies). For more information, refer to specific department chapters in this Bulletin.

Centers and institutes

Africana Research Center
3103 James Hall, (718) 951-5597

The center promotes research in Africana studies and in political, economic, and cultural issues of interest to scholars and the African, Caribbean, and African American communities.

Applied Sciences Institute
3228 Boylan Hall, (718) 951-5252

The Applied Sciences Institute (ASI) comprises seven research institutes at the College: Applied Vision, Aquatic Research and Environmental Assessment, Electrochemistry, Feeding Behavior and Nutrition, Neural and Intelligent Systems, Semiconductor, and workstation. Each has the latest versions of multiple software packages and Internet browsers. Notebook computers, plug-ins for personal laptops, and high-quality laser printers are also available. There are group-study rooms and areas for individual study or reading. Modeled on the style of Internet cafés, the sleek, state-of-the-art facility, with large windows facing a landscaped courtyard providing natural light, is a popular site for computing, study, and student interchange, or merely for having a sandwich, coffee, or soda.
Surfactant Research. Its purpose is to promote significant funded research in a broad range of applied sciences, to promote economic development through interaction with local and regional industry, and to create educational opportunities—including those for women and minorities—that help to increase the technological and scientific workforce needed for the economic health of the city. The ASI seeks to promote and encourage applied research at the College in such fields as applied biomedicine, aquaculture, health and nutrition, information systems and computational science, and others. Directors of the institutes are scientists of international stature who have demonstrated records of attracting substantial grants and contracts from both government and industrial sources. The institutes draw on the skills and efforts of faculty and postdoctoral research associates as well as graduate and undergraduate students at the College.

Archaeological Research Center
0207 Ingersoll Hall, (718) 951-4714
The center supports excavations abroad on sites dating from early Neolithic to medieval times. The center also supports and directs excavations in New York. Evidence is recovered and studied from these and other digs in which faculty members and students participate. The center publishes its findings.

Auditory Research Center
4416 Boylan Hall, (718) 951-5186
The Brooklyn College Auditory Research Center conducts basic and applied research on various topics related to the auditory system. A recent highlight of center activity is a successful investigation of the EarPopper, a nonsurgical device used for the elimination of middle-ear fluid in children. The center has received a number of federally funded research grants in which paid graduate students participate as research assistants. Some of these students have gone on to pursue doctoral degrees at institutions across the country, including the Massachusetts Institute of Technology and the CUNY Graduate School and University Center. The advisory board for the center includes prominent physicians and scientists.

Center for Child and Adult Development
1205 James Hall, (718) 951-5876
The center is sponsored by the School Psychologist Graduate Program of the School of Education. It serves the community and professionals in the fields of education and psychology by providing, through conferences and symposia, information on mental health practices and recent research relevant to child and adult development.

Center for Computer Music
250 Gershwin Hall, (718) 951-5582
The Center for Computer Music, part of the Conservatory of Music, promotes musical and interdisciplinary projects using a variety of computer applications. It focuses on digital audio, synthesis, and digital signal processing. Applications include Protools, MAX-MSP, Kyma, Waves, GRM, Sound Hack, MetaSynth, DP, and others. Annually, the center produces a CD of student and faculty compositions. It also maintains an active visiting composer series. Its recording studio is equipped with sixteen-track digital recording with mixdown capabilities. A variety of high-quality microphones, mixers, tape recorders, and signal processors is available. The center's control room is linked to a medium-sized room for solo and chamber music recordings and to a fully equipped five-hundred-seat theater for larger ensembles.

Since 1990, the Center for Computer Music has hosted an International Electroacoustic Music Festival, with performances of music, video, film, and live electronic works by artists from around the world.

Center for Diversity and Multicultural Studies
3309 James Hall, (718) 951-5766
http://depthome.brooklyn.cuny.edu/diversity
The center promotes a campuswide multicultural academic environment. It is active in strategic planning and diversity policy initiatives, faculty development, public forums, publications, internships, community service, and student clubs to facilitate the multicultural objectives of the College. It works with the University's Office of Faculty-Staff Relations and the Affirmative Action Office.

Center for Health Promotion
4145 Ingersoll Hall, (718) 951-5565 or -5026
The Center for Health Promotion develops, coordinates, and centralizes a variety of outreach programs initiated by faculty members. It organizes workshops, seminars, and conferences on health and nutrition topics. It provides opportunities for students to learn through volunteer work and to serve the community through fieldwork and independent studies on health promotion.
Center for Italian American Studies  
1212 Boylan Hall, (718) 951-5000, extension 6264  
www.brooklyn.cuny.edu/pub/departments/itam_index.htm

The center, established in the 1970s, is under the auspices of the Presidential Advisory Committee on Italian American Affairs. It seeks to stimulate interest in Italian American life and to explore the social, political, and cultural attitudes and behavior patterns of Italian Americans. It serves the students, faculty, and staff of Brooklyn College, as well as the Greater New York community by organizing conferences, lectures, and seminars. The center conducts and sponsors research on the Italian American population. It supports a minor in Italian American studies, which is interdisciplinary in nature. It hosts two student clubs: the Italian Culture Club and the Italian American Student Union. The center houses the S. Eugene Scalia Memorial Library, the Bernard Toscani Library (books in Italian), and the James Periconi Library (an extensive collection of Italian American books in English). Library books and other materials are for use only within the center.

Center for Latino Studies  
1204 Boylan Hall, (718) 951-5561  
http://depthome.brooklyn.cuny.edu/prstudies

The center, an extension of the Department of Puerto Rican and Latino Studies, serves students, faculty, and the community by stimulating interest in Puerto Rican and Latino affairs. It sponsors conferences, workshops, lectures, seminars, internships, and noncredit courses. It encourages curricular development and research on topics related to the Latino experience and fosters educational exhibits as well as artistic and cultural expression. It maintains a facility for special collections, publications, and research.

Center for the Study of Brooklyn  
1209 Ingersoll Hall, (718) 951-5852  
http://csb.brooklyn.cuny.edu

The Center for the Study of Brooklyn is a public policy research center that puts Brooklyn issues first. It promotes the College's strategic goal of being a model citizen of Brooklyn and aims to serve Brooklyn's community, business, nonprofit, educational, and government leaders through timely research and public forums.

Center for the Study of Religion in Society and Culture  
3413 James Hall, (718) 951-5306

The Center for the Study of Religion in Society and Culture (RISC) fosters study and research of religion and its social impact with a particular emphasis on the impact of religious institutions in Brooklyn. It houses the archives of the Program for Analysis of Religion Among Latinos/as, a nationwide survey of Latino leadership in parishes and congregations conducted with funding from the Lilly Endowment and the Ford Foundation. In collaboration with the Program for Studies in Religion, RISC cosponsors events and lectures addressing religious topics.

Center for the Study of World Television  
304 Whitehead Hall, (718) 951-5555

The center is affiliated with the Department of Television and Radio. Its goal is twofold: first, to develop a better understanding of the use of national and international policy for the constructive application of television and related media to the social, cultural, political, and economic needs of various countries and regions; and second, to develop a better understanding of how the diverse global trajectories of television programming are part of the formation of social and cultural identities and practices. The center has conducted and published research, sponsored lectures, developed databases on aspects of international television, and holds symposia in the United Nations in cooperation with the U.N. and the International Council of the National Academy of Television Arts and Sciences.

Children's Studies Center  
3602 James Hall, (718) 951-3192  
http://depthome.brooklyn.cuny.edu/childrensstudies

Founded in 1997, the center aims to promote a unified approach to the study and teaching of children and youth across the disciplines in the arts, education, humanities, law, medicine, and natural and social sciences. Its mission is to participate in national and international research efforts on behalf of children and youth; to help governmental and advocacy agencies, as well as community-based organizations, formulate implementation strategies for helping children and youth; to initiate interdisciplinary symposia, concerts, broadcasts, exhibitions, and films in partnership with other child and youth-related institutions; and to develop resource and
information materials for assisting undergraduate and graduate students in the exploration of careers related to children and youth services.

**Ethyle R. Wolfe Institute for the Humanities**
2231 Boylan Hall, (718) 951-5847
www.brooklyn.cuny.edu/pub/departments/wolfe_index.htm

The Ethyle R. Wolfe Institute for the Humanities supports research, writing, teaching, and public discussion in the humanities and human sciences at Brooklyn College. It seeks to promote faculty initiatives and to ensure excellence in scholarship in these areas. Toward that end, it presents public lectures, symposia, and conferences as well as interdisciplinary faculty study and discussion groups; offers full-year research fellowships in the humanities to Brooklyn College faculty; collaborates with several undergraduate honors programs; and brings leading scholars to campus.

**Graduate Center for Worker Education**
25 Broadway, seventh floor
(Manhattan Campus), (212) 966-4014

The Graduate Center for Worker Education is a full-service newly constructed off-site campus with graduate programs using state-of-the-art distance learning, video conferencing, an auditorium, exhibition gallery, smart classrooms, and computer lab facilities. The labor-oriented center offers master's degrees in urban policy and public administration through the Department of Political Science and in community health through the Department of Health and Nutrition Sciences. It also coordinates a graduate internship program and serves as the home of Working USA: Journal of Labor & Society.

**H. Wiley Hitchcock Institute for Studies in American Music**
415 Whitehead Hall, (718) 951-5655
http://depthome.brooklyn.cuny.edu/isam

The H. Wiley Hitchcock Institute for Studies in American Music (ISAM), part of the Conservatory of Music, is a research center dedicated to the study, preservation, and presentation of a wide spectrum of American music, including jazz, popular, folk, and art music. It sponsors conferences, symposia, and concerts. In recent years, it has focused on contemporary composers in the greater New York area and on musical traditions of immigrant communities surrounding the College. The institute has published more than thirty monographs on various topics in American music as well as bibliographies, discographies, and a semiannual newsletter. Its research collections, including books, periodicals, scores, and recordings, are open to students and scholars by appointment.

**Infant Study Center**
4311 James Hall, (718) 951-5033 or -5610

The center conducts grant-supported research studies on visual and perceptual development in infants and young children. Aspects of both normal and abnormal development are studied. A major interest is the development of new methods for assessing visual functioning in infants and young children. Graduate and undergraduate students assist in the research.
**Additional Campus Services and Facilities**

**Art Gallery at Brooklyn College**
The gallery, affiliated with the Department of Art, mounts several important shows of national and international art each year as well as exhibitions of folk art, history, and local lore. These exhibitions benefit the borough as well as the Brooklyn College community and draw visitors from throughout the New York area. Pending construction of a new space, the gallery has been using the library’s exhibition area and the Student Center as well as off-campus venues. Its major sources of support are the James, ’68, and Anna Fantaci Art Fund and the Donald E., ’40, and Edith Peiser Fund.

**ATM banking**
An automated teller machine (ATM), installed by HSBC Bank, is located adjacent to the Information Booth, 1139A Boylan Hall. Open twenty-four hours a day, the ATM performs all transactions except deposits. The service is free of charge to users with HSBC accounts, but fees are charged to those who have accounts at other banks and whose own bank charges for ATM use.

**Bookstore**
0400 Boylan Hall, (718) 951-5150
brooklyn@bkstore.com
http://brooklyn.bncollege.com
The bookstore stocks new and used required and recommended books, computer software and supplies, greeting cards and magazines, school and art supplies, Brooklyn College memorabilia, and snacks.

**Brooklyn Center for the Performing Arts at Brooklyn College**
154 Gershwin Hall, (718) 951-4600
www.brooklyncenter.com
www.brooklyncenteronline.org
Brooklyn Center is a world-class performing arts center that is a resource for both the campus and the wider community. The center includes the George Gershwin Theater (capacity, 500), W alt W hitman Hall (capacity, 2,400), the Sam Levenson Recital Hall (capacity, 150), and the N ew W orkshop Theater (capacity, 100), a studio facility.

During its annual season, Brooklyn Center presents a variety of outstanding culture and entertainment that rivals Manhattan’s best theaters. More than three hundred music and theater events are presented during the academic year, free or for a small fee, by students and faculty members of the Conservatory of Music and the Department of Theater. Performances include recitals, concerts by the Conservatory Orchestra and the Conservatory Wind Ensemble, Mainstage productions and thesis productions by the Department of Theater, and fully staged productions by the Brooklyn College O pera Theater.

The center’s box office is in Gershwin Hall. Discounted tickets for most performances may be purchased with a valid student ID. Program information may be obtained by calling the box office, (718) 951-4500, or by visiting the website.

**Campus and Community Safety Services**
0202 Ingersoll Hall
Office, (718) 951-5511
Emergencies, (718) 951-5444
www.brooklyn.cuny.edu/bc/offices/security
The Brooklyn College Safety Services staff seeks to ensure that the rights of every member of the campus community are respected and that the campus enjoys a safe and secure atmosphere conducive to the pursuit of educational objectives. Public safety personnel are on duty twenty-four hours a day, seven days a week. Criminal actions or other emergencies on campus should be reported immediately, in person or by telephone, to Safety Services or to any public safety officer on patrol. Reports of crimes may also be made in writing. The College maintains a close working relationship with the New York Police Department and has in place an Emergency Response Plan for dealing with emergencies on campus.

**Emergency medical service hot line**
Emergency medical assistance is offered by the Student Volunteer Emergency Medical Squad, 021 Ingersoll Hall Extension, (718) 951-5858. The squad also provides an ambulance response. A number of public safety officers are certified as EMTs and respond to medical emergencies twenty-four hours a day.

**Anonymous reporting hot line**
A reporting hot line, (718) 951-4628, is available for use by anyone wishing to report suspicious activity anonymously.
Security escort service
Escorts will be provided by public safety personnel to campus parking lots and nearby public transportation (bus and subway) for students, faculty, and staff members who request them. Requests should be made about twenty or thirty minutes before an escort is needed. A security shuttle service operates on Campus Road when the campus is open, providing transportation to and from local bus stops and subway stations. A van is available for students and staff members with disabilities.

Bicycle racks
The Office of Campus and Community Safety Services maintains bicycle racks at Campus Road and East 27 Street and at the West Gate during the hours the campus is open. The enclosures may be used by students, faculty, and staff members upon presentation of a valid Brooklyn College photo identification card. There are also two racks outside Ingersoll Hall on Bedford Avenue, but this location is not staffed by public safety personnel. Bicycles must be properly secured to the rack with sturdy chains or locks. Overnight storage of bicycles is not permitted.

Photo identification cards
All students and members of the faculty and staff are required to carry a Brooklyn College photo identification card on campus and should wear it on campus when the College is closed. The card must be displayed in order to gain access to the campus, the library, and the Student Center. Photo ID card services are located in the Enrollment Services Center, 0100A Boylan Hall.

Students who wish to enter or remain on campus after hours must obtain written permission from the Office of the Dean of Student Affairs or have a twenty-four-hour photo identification card.

Annual security guide
The Office of Campus and Community Safety Services is in compliance with the Jeanne Clery Act (formerly the Campus Security Act of 1990) and publishes an annual security guide each fall. The guide, available on the office website, includes campus crime statistics. A campus log of reported crimes is open to the public in the office.

Center for Assistive Technology
4125 Boylan Hall, (718) 951-3193
The Center for Assistive Technology provides clinical services, including comprehensive identification, evaluation, and treatment, for children and adults with developmental and acquired disabilities who require augmentative communications. Through the use of augmentative communication techniques, seating and mobility, and computers, the center helps individuals with severe speech impairments to develop communication and writing skills. For students majoring in speech-language pathology or education, it provides professional training in clinical practices as well as in the use of state-of-the-art devices, peripherals, adaptations, and software. Facilities include treatment rooms and a demonstration area with one-way vision windows for observation. The center is a joint arrangement between the Brooklyn College Speech-Language Pathology and Audiology Program and Premier HealthCare, a member agency of the Young Adult Institute, which serves individuals with disabilities throughout the New York City metropolitan area.

Center for Student Disability Services
138 Roosevelt Hall, (718) 951-5538
The Center for Student Disability Services serves as the primary program for ensuring the successful integration of students with disabilities into the College community and for making determinations of what will constitute appropriate reasonable accommodations. All accommodations are based on the current nature of the student's disability or disabilities and the supporting documentation. Commonly offered services and accommodations include predmission interviews, preregistration assistance and advising, testing accommodations and arrangements, auxiliary aids (readers, scribes, laboratory assistants); alternate print format; advocacy; and direct liaison with offices providing College services.

In addition, through the center, students have access to the Frank and Mamie Goldstein Resource Center, a special resource center where a wide variety of equipment is available, including Dragon dictate speech-recognition system, a scanner with screen-access software, a text-to-speech synthesizer, magnification systems, CCTV systems, Braille and large-print keyboards, and a Braille printer. Similar equipment is also available at the Brooklyn College Library, the Atrium Computer Lab, and the Topfer Library Café.
Commencement information
www.brooklyn.cuny.edu/pub/commencement.htm
The annual ceremony is held in May or June on the Quadrangle. For detailed commencement information, such as date, time, and ticket availability, visit the commencement website. To ensure eligibility for participation, students must apply for graduation with the Registrar's Office during the last semester of studies. For any questions regarding the ceremony that are not addressed on the site, students may e-mail commencement@brooklyn.cuny.edu.

Office of Communications
2118 Boylan Hall, (718) 951-5882
The office is responsible for responding to press inquiries and media outreach on issues of policy and information; promoting the accomplishments of Brooklyn College students, faculty, and researchers; and managing the content of the College's public website. It also produces a variety of official publications, including the Brooklyn College Magazine, Undergraduate Bulletin and Graduate Bulletin, Schedule of Classes, Student Handbook, Faculty Handbook, Commencement Program, the Arts Calendar, an annual guide to new faculty, the online Monday Morning newspaper, and the student newsletter, Around the Quad. The office staff also writes, edits, and designs numerous recruitment and departmental newsletters, brochures, flyers, and posters to promote special academic programs, cultural events, fundraising, and alumni activities.

Computer Language Instruction Center (CLIC)
4311, 4315, and 4316 Boylan Hall, (718) 951-5231
The Computer Language Instruction Center (CLIC) is an integral part of the Department of Modern Languages and Literatures. It houses well-developed collections of foreign films and videos, educational software, and audio cassettes. The main lab room, 4316 Boylan Hall, is equipped with twenty-four Internet-connected computers running the Windows operating system. Students may access specialized, foreign-language instruction software stored on the center's main server. The Teaching Lab, 4311 Boylan Hall, is used for classroom instruction. It is equipped with twelve Internet-connected computers, a large screen, a projector, and multistandard DVD and VCR players.

Drug and alcohol abuse counseling and information
0203 James Hall, (718) 951-5363
http://pc.brooklyn.cuny.edu
Professional help is provided through counseling and referral at Personal Counseling. Free and confidential services are available to students, staff, and faculty members as well as their families.

Food services
College dining facilities are located on the lower level of Boylan Hall. They include cafeteria service, a kosher dairy bar, a gourmet coffee bar, and a buffet service dining room. The main cafeteria offers bagels, salads, sandwiches, vegetarian and vegan offerings, and expanded vending machine snack choices. The cafeteria is open from morning until evening. Catering is available for receptions and other special events. Vending machines are located in several buildings throughout the campus. Starbucks, in the Library Café, serves hot beverages as well as cold drinks, baked goods, and snacks.

General information line
(718) 951-5000
The campus switchboard is in operation Monday through Thursday, 8 a.m. to 7 p.m., and Friday, until 5:30 p.m. During off-hours, an auto attendant guides callers to individual departments. Specific information, including a directory of telephone numbers, may be accessed from menus.

Health Clinic
114 Roosevelt Hall, (718) 951-5580
The Health Clinic provides evaluation and treatment of acute and chronic medical conditions; offers gynecological care, including family planning options; and provides wellness checkups, evaluation, and counseling on a variety of health issues. Care is delivered by nurse practitioners and physician assistants who have advanced, specialized training in medical diagnosis and treatment. Services are strictly confidential. There is no charge for visits to the Health Clinic. Some laboratory tests are done free of charge; those that require outside analysis are available at greatly reduced fees. Many medications are provided for a nominal fee.
Health Information and Wellness Services and Programs  
www.brooklyn.cuny.edu/bc/offices/studlife/HWConsortium.html

The Health Programs/Immunization Requirements Office, 0710 James Hall, (718) 951-4505, provides information on student health and wellness issues, student immunization requirements, and health insurance. Emergency medical services are provided by a trained volunteer student squad and are available in 021 Ingersoll Hall Extension, (718) 951-5858.

Housing referral  
0203 James Hall, (718) 951-5363

Housing and roommate referrals and information are provided. Listings are also available on the WebCentral portal, https://portal.brooklyn.edu; click on the tab “eServices,” then “Search for Housing.”

Information Booth  
1139A Boylan Hall, (718) 951-4748  
http://studlife.brooklyn.cuny.edu/infobooth.html

The Information Booth’s staff of trained student assistants, provides students with information on campus services and activities, campus maps, event calendars, directions to campus offices, and citizenship and poll worker applications.

Information Technology Services  
ITS Entrance, Brooklyn College Library  
ITS, (718) 951-5861

ITS Public Computing, (718) 951-5787

Brooklyn College’s computing infrastructure is one of the most advanced in CUNY. These systems support applications in all disciplines and are used by students and faculty to access critical administrative data. Information Technology Services provides support to students, faculty, and administration through the Help Desk and on site.

All students may use the College’s public-access computer labs, extensive Web and distance learning systems, and network of BCLink digital information kiosks. Every registered student is provided with an advanced Microsoft Exchange e-mail account that may be accessed on or off campus via the Internet.

Brooklyn College maintains several large-scale public-access computing facilities, supplemented by departmental discipline-specific labs and electronic classrooms. Overall, more than one thousand computers are available to students. Facilities include the ITS Public Computing Labs in the West End Building, the New Media Center and lower-level labs in the library, the 24/7 Morton and Angela Topfer Library Café in W Hitehead Hall, and the Learning Center off the Boylan Hall lobby. The ITS Public Computing Labs, which are open seven days a week, have more than 250 PCs, MACs, and SUN Unix workstations; free black-and-white printing; lounge areas; and food service. The library labs have more than two hundred PCs and MACs; the Library Café more than eighty PCs and MACs. All campus labs have shared network printing, high-speed Internet access, and support staff.

The College supports various computing platforms, including Windows, Apple MAC, and SUN Unix systems linked to Novell, Windows NT, and Unix servers. All of these are available at public-access facilities and are used in various instructional contexts. The College also maintains a sophisticated videoconferencing and multimedia facility that is used in many courses for distance learning and facilitates interaction with students from other CUNY colleges.

An extensive inventory of adaptive computer equipment enables students with disabilities to utilize the computer resources. These facilities and associated technical support are concentrated in the ITS Public Computing Labs, the library, and the Mamie and Frank Goldstein Resource Center in the Center for Student Disability Services.

BC WebCentral portal  
https://portal.brooklyn.edu

Brooklyn College students may use the BC WebCentral portal at https://portal.brooklyn.edu to transact a wide range of academic business via the Web, including registering for courses, paying tuition, viewing their progress toward their degree, applying for scholarships, applying for graduate school, withdrawing from courses, applying for pass-fail, declaring their major, applying for absentee final exams, projecting their GPA based on current grades, signing up to receive grades via e-mail, and much more. WebCentral users have access to WebMail, private calendars, to-do lists, Web favorites, news feeds, and other useful tools. The portal provides information and services customized to each user. A single WebCentral sign-on allows users to access all authenticated services without having to reenter his or her credentials.
Brooklyn College website
www.brooklyn.cuny.edu

The Brooklyn College website provides a wealth of useful information about the College and its programs for prospective and current students, prospective employees, visitors, and guests.

E-mail services

The College provides every registered student with a Brooklyn College Microsoft Exchange e-mail address, accessible via the Web, POP, IMAP, and Outlook. The e-mail account is protected against viruses and allows students to create their own folder structure. Students can create a custom alias for their College account. Those wishing to use a non-College e-mail should submit private e-mail addresses via the BC WebCentral portal, https://portal.brooklyn.edu, if they prefer to receive College mail at that address. Accounts for entering students are created within the first week of the term. The ITS network support line, (718) 677-6180, assists students with using their e-mail.

Wireless network access

Wireless network access (WiFi) is available at many locations on campus, including the Boylan Hall Cafeteria, library, Library Café, Learning Center, Student Center, ITS Public Computing Labs, Honors Academy, and art labs as well as at the Lily Pond and on the Quadrangle. It can be accessed with appropriately configured laptops or PDAs by students with Brooklyn College e-mail accounts. Access requires an 802.11x-compliant secure client and a Brooklyn College e-mail address. Further information and setup instructions are available on the technology tab on the BC WebCentral portal, https://portal.brooklyn.edu.

Services for international students
1600 James Hall, (718) 951-4477

Counseling and other special services are provided for international students enrolled with F-1, J-1, B-1, or B-2 visas, including processing of BCIS and other forms for status change, travel, employment, practical training, transfer of funds, and spouse/dependent visas. Apply at least one week in advance for processing of these requests. International students should visit this office upon arrival and send notice of any change of address or status.

Lay Advocate Program (legal counseling)
139 Ingersoll Hall Extension, (718) 951-5360

The program offers members of the Brooklyn College community basic legal information, counseling by an attorney, and referral to legal-service agencies. Information on College rules and student rights is given by trained undergraduate volunteers supervised by an attorney.

Learning Center
1300 Boylan Hall, (718) 951-5821
http://lc.brooklyn.cuny.edu

The Learning Center offers Brooklyn College students tutoring support for courses across the curriculum. Trained peer tutors work with graduate students on the mechanics of writing, outlining, revising, and developing a format for essays, term papers, and laboratory reports. The Learning Center is open seven days a week. Master's students may schedule appointments with writing tutors especially trained to work on graduate-level writing.

Magner Center for Career Development and Internships
1303 James Hall, (718) 951-5696
http://career.brooklyn.cuny.edu

A wide range of free career programs are available to Brooklyn College undergraduates, graduate students, and alumni. Services include career counseling and assessment, internship preparation and placement, e-recruiting, professional skills training, and graduate and professional school preparation and application advisement. Workshops on résumé writing, interview training, job search skills, dressing for success, academic and career information, and finding the right internship are available in addition to information on full- and part-time jobs, employment recruiters, alumni mentors, and the labor market and occupations. Job and internship fairs are held each semester along with numerous corporate sponsored workshops.

Newspapers and literary magazines

Newspapers written and edited by Brooklyn College students are available in the lobbies of campus buildings. Brooklyn Review, a literary-arts magazine, is published by students in the M.F.A. programs in creative writing and fine arts.
Performing arts facilities
Events in music and theater presented by student performers are open, inexpensively, to Brooklyn College students. Information on performances is published in the calendar of the College’s Arts Council and may be found on the online College calendar in the WebCentral portal. Rehearsal and practice studios for the Conservatory of Music, theater workshops and classrooms for the Department of Theater, and performance spaces for both are in the Brooklyn Center for the Performing Arts at Brooklyn College. Dance studios are in Roosevelt Hall and Roosevelt Hall Extension.

The Conservatory of Music also maintains an extensive library of books and scores; playback facilities for records, tapes, compact discs, and CD-ROMs; and a large collection of musical instruments for instructional use. The Theater Department has access to two stages, three acting studios, a directing studio, dressing rooms, lighting and carpentry areas, a costume construction workshop, instructional audiovisual equipment, and a design lab. It also offers a special library and reading room for theater majors.

The Brooklyn College Preparatory Center for the Performing Arts is the precollege component of the Conservatory of Music and the Department of Theater. It offers community programs in music, theater, and dance for children three to eighteen years of age and for adults. Its Suzuki Program for violin and cello is among the largest and most successful of New York City’s Suzuki schools. Student and faculty recitals are held regularly in Sam Levenson Recital Hall. It is open to all who seek high-quality training by professional artist teachers, from beginners to those preparing for college-level work. Information on admission and tuition is available by calling (718) 951-4111.

Note: Construction of a new performing arts center, which will include a state-of-the-art theater, rehearsal studios, practice rooms, and classrooms, is scheduled to begin in 2009.

Personal Counseling
0203 James Hall, (718) 951-5363
http://pc.brooklyn.cuny.edu
Personal counseling offers individual, couples, family, and group counseling; short-term therapy; crisis intervention; referrals to off-campus services; and a range of life-skills workshops for test anxiety, stress management, etc. Referral to social services is available. All services are free and confidential.

Office of Research and Sponsored Programs
2158 Boylan Hall, (718) 951-5622
The office provides extensive advisement and support for faculty and staff who are engaged in sponsored programs or who are seeking external funding for research projects and other scholarly pursuits. The grants office identifies and disseminates funding opportunities for research, training, curriculum development, and other projects; assists in the preparation, review, and submission of proposals and budgets to government and private agencies; and facilitates the administration of funded projects and interaction between Brooklyn College, the CUNY Technology Commercialization Office, and the Research Foundation of The City University of New York.

Diana Rogovin Davidow Speech and Hearing Center at Brooklyn College
4400 Boylan Hall, (718) 951-5186
http://depthome.brooklyn.cuny.edu/speech/

The center staff consists of licensed and certified speech-language pathologists and audiologists who provide and supervise quality clinical services on a fee basis. Clients with speech, language, voice, fluency, and hearing disabilities are seen for evaluations and remediation, including the dispensing of hearing aids. Students majoring in speech-language pathology and audiology receive supervised clinical experience in conjunction with their academic preparation. Facilities include a complex of sound-treated rooms, audio and video recording equipment, and soundproof audiometric booths containing the latest instrumentation for testing and research.

Student Ombudsperson Services and Peer Ombuds Initiative
www.brooklyn.cuny.edu/bc/offices/studlife/ombuds.html
The Student Ombudsperson Services programs at Brooklyn College, part of the Division of Student Affairs, assist students who are having difficulty gaining access to or help from College services and programs for which they are eligible. Ombudsperson Services provides students with resource information relevant to their situation, discusses options, makes referrals, and, when necessary, personally contacts the appropriate individuals.
The service functions both for the individual student and for the College by working to ensure that the College is responsive to its primary constituent, the student. For further information or to make an appointment (evenings are available), e-mail studentaffairs@brooklyn.cuny.edu or go to 2113 Boylan Hall.

**Television Center**

018 Whitehead Hall, (718) 951-5585

The Television Center provides television production and post-production facilities and technical support to the Department of Television and Radio. Students enrolled in the department's master of fine arts program are employed by the center as part-time production assistants and have an opportunity to participate in all aspects of television production. The center's facilities include a broadcast-quality three-camera studio, nonlinear editing facilities, radio production suites, broadcast-quality digital field-production equipment, and the newly renovated state-of-the-art student radio station, BCR.

**Veterans Affairs and Counseling Center**

0303 James Hall, (718) 951-5105

www.brooklyn.cuny.edu/bc/offices/studaffairs/veterans.html

The center provides orientation counseling; assistance with admission procedures, academic planning, and tutoring; and liaison with the Veterans Administration and other government agencies. It also provides information on federal and state benefits. Peer counselors help veterans file applications for the GI bill and other educational benefits.

**Women's Center**

227 Ingersoll Hall Extension, (718) 951-5777

http://depthome.brooklyn.cuny.edu/womens/center

The center sponsors noncredit programs, workshops, and lectures on a broad variety of women's issues. It offers referrals to therapists, lawyers, social service, and counseling agencies as well as information about new career opportunities, professional women's networks, scholarships, and grants. Services are available to students, faculty and staff members, and community residents.

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**Programs and Courses of Instruction**

Information about programs and courses may be obtained from the chairperson or the deputy chairperson for graduate study of each department.

Programs and regulations in this Bulletin are subject to change without notice. Students are advised to consult regularly with the graduate deputy of their department concerning their program of study.

**Course numbers**

Courses numbered 600-699 are broadly based survey courses that do not require extensive undergraduate preparation. They are intended for students in other disciplines and may not be offered toward a degree by candidates in the field in which they are given.

Courses numbered 700-799 require extensive undergraduate preparation and are intended for candidates for a master's degree or certificate in the field in which they are given. Other students may be admitted only with permission of the chairperson or deputy chairperson.

**Course letters**

Each course number is followed by G, T, or X. The letter G means that the course may be credited only toward a master's degree in liberal arts and sciences programs; T, that the course may be credited only toward a master's degree or an advanced certificate in the Teacher Education Program; and X, that the course may be credited toward a master's degree in either liberal arts and sciences programs or the Teacher Education Program.

In some cases, a student may receive permission to apply credit for a course designated G toward a master's degree in the Teacher Education Program or to apply credit for a course designated T toward a master's degree in liberal arts and sciences programs.

Courses whose number is preceded by the letter U are regular master's courses that may be credited toward a City University doctoral program.
Africana Studies
Office: 3105 James Hall
Telephone: 951-5597, 951-5598
Chairperson: George P. Cunningham
Deputy Chairperson, Division of Graduate Studies and SGS: Bert J. Thomas
Professors: Cunningham, Latortue, Thomas;
Associate Professor: Day;
Assistant Professors: Byam, Cumberbatch, Green.

Founded in 1970, the Department of Africana Studies is an outgrowth of the Africana Research Institute, established in 1969. Offering a multidisciplinary perspective on the study of blacks in Africa, the Caribbean, and the United States, the department offers courses focusing on the histories, cultures, politics, and societies of Africa and its diaspora. In addition to its own core faculty, the department draws on the expertise of its affiliates in the Departments of English, History, Modern Languages and Literatures, and Political Science, as well as the Conservatory of Music.

The department offers a 6-credit study-abroad seminar during the summer, which provides an in-depth experience in a selected country of the African diaspora in cooperation with a host institution in that country. Summer seminars have taken place in Barbados, Brazil, Cuba, Ghana, Haiti, Jamaica, Panama, and Trinidad and Tobago.

The following courses are offered as electives for students in other fields.

Courses

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

700X Black Research Methodology
45 hours; 3 credits
An introduction to methodology used to conduct empirical research in the Black community. The course will include an introduction to the theory of individual and organizational behavior; historical, experimental, and descriptive research methods; introduction to computer usage in conducting research; and discussions of issues relevant to research in the Black community.

715X Black Community Organizations and Participation
45 hours; 3 credits
Study, analysis, and evaluation of the techniques and forms of Black community expression and participation in the inner city. Policy enactment to deal with the problems of the Black community. Case studies reviewed.
Prerequisite: 6 credits of advanced courses in the social sciences, or permission of the chairperson.

730X The Political Economy of the Caribbean
45 hours; 3 credits
An analysis of the political economy of the states in the Caribbean, including Haiti, the Dominican Republic, Cuba, the French and Commonwealth Caribbean. The stated objectives of various development strategies advanced since the 1950s: the relationship between state systems, public policy output, and a response of the various structures/individuals within those systems.

770X Summer Seminar in Africa, the Caribbean, South America, or the United States
90 hours; 6 credits
Lectures, research, and study in selected historical, political, economic, and social aspects of life in a selected country or in a region of the United States. Lectures by Brooklyn College and host country scholars, in cooperation with a university in Africa, the Caribbean, South America, or the United States may be supplemented by fieldwork, and library and empirical research. This course may not be taken more than once.
Prerequisite: completion of 6 graduate credits in the social sciences or the humanities; or permission of the chairperson.

775X Social Change in Africa, 1750-1945
30 hours plus conference; 3 credits
Introduction to social change in sub-Saharan Africa from the era of the slave trade to the end of World War II. Emphasis on internal transformations sparked by industrialization, imperial expansion and colonization, including political innovations, changing market relations as well as transformations in kinship and gender relations. In depth coverage of slavery, women in the economy, the development of an African working class, religious transformations, the emergence of new elites, the growth of modern political activism, and resistance to colonization. This course is the same as History 754.1X.

780X Modern South Africa
30 hours plus conference; 3 credits
Analysis of major political, economic, and social developments in the Republic of South Africa since 1948. A gainst the backdrop of South Africa's recent history, topics examined include: the system of apartheid, White rule and Black challenge, the South African economy, South Africa and the wider world, the Nelson Mandela era, and U.S. South African interests and policies. This course is the same as Political Science 780X.
Anthropology and Archaeology

Office: 3307 James Hall  
Telephone: 951-5507, 951-5509  
Chairperson: H. Arthur Bankoff  
Professors: Bankoff, Perdikaris, Rosenberger;  
Associate Professors: Gustav, Sharman;  
Assistant Professor: Cavanaugh.

In addition to coursework using the four-field approach, which includes cultural anthropology, archaeology, physical anthropology, and linguistics, the Department of Anthropology and Archaeology offers ongoing opportunities for hands-on research in laboratory and fieldwork studies led by full-time faculty members.

A doctorate in anthropology is offered by the City University of New York at the Graduate School and University Center. Information about the program is in the Bulletin of the Graduate School and University Center. General information about CUNY Ph.D. programs is in the “About Brooklyn College” chapter of this Bulletin.

The following courses are offered as electives for students in other fields.

Courses

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

601X Summer Archaeological Field School
15 hours plus 150 hours supervised fieldwork; 6 credits  
Intensive instruction in field methods and techniques of archaeology through participation in every aspect of an excavation; training in archaeological mapping, excavation techniques, and methods of archaeological laboratory analysis. For Summer Archaeological Field School abroad, room and board fees and travel expenses are additional.  
Prerequisite: permission of the chairperson.

610X Special Topics in Anthropology
45 hours; 3 credits  
Subjects of interest in any of the four fields of anthropology that are not treated systematically in the regular curriculum. Topics vary from term to term. Students may take this course twice but may not repeat topics.  
Prerequisite: nine credits in advanced social science from an undergraduate program or permission of the chairperson.

611X Special Topics in Peoples and Cultures of Selected Areas
45 hours; 3 credits  
Study of culture groups or areas, not usually encountered in the departmental offerings; institutions, historical and environmental influences, and/or effects of outside contact on specific ethnographic, or archaeological cultures. Physical, ethnographic, and theoretical analyses of culture groups. Cultural adaptations and retentions. Contemporary issues and problems. Students may take this course twice but may not repeat topics.  
Prerequisite: permission of the chairperson based upon the topic to be offered.

624X Seminar in Zooarchaeology
30 hours lecture, 30 hours laboratory; 3 credits  
Study of animal remains from archaeological sites; methods of recovery, identification, and analysis. Special emphasis placed on natural and social environments, formation processes, subsistence strategies, and paleoenvironments.  
Prerequisite: completion of the core courses in biology, anthropology, and archaeology in the Ph.D. program at the City University of New York Graduate Center, or permission of the chairperson.

752X North American Indians
45 hours lecture; 3 credits  
Patterns of American Indian cultures north of Mexico; cultural and linguistic diversity, cultural adaptations and developments; contemporary Native Americans.  
Prerequisite: credits in advanced social science in an undergraduate program or permission of the chairperson.
Art

Office: 5306 Boylan Hall
Telephone: 951-5181, 951-5182
Chairperson: Michael Mallory
Deputy Chairperson for studio art, Division of Graduate Studies:
Janet Carlile
Deputy Chairperson for Art History, Division of Graduate Studies:
Mona Hadler
Professors: Carlile, Flam, Giusti, Hadler, Mainardi, Mallory, McCoy, Rand;
Associate Professors: Comerford, Cronin;
Assistant Professors: Ball, Kousser, Schwab;
Distinguished Lecturer: Acconci.

M.F.A. in art
HEGIS code 1002; SED program code 02016

The M.F.A. studio program offers concentrations in drawing and painting, sculpture, printmaking, photography, and digital art. Students usually focus on one of these but take courses in other areas and in art history. Periodically, their work is formally reviewed by the full faculty who also individually visit their studios for informal critiques. Graduating students participate in a large M.F.A. thesis exhibition, usually at a Manhattan gallery. The department has a fine arts rather than a commercial orientation and seeks a balance between the traditional and the new in its mix of students, faculty, and course content. The faculty includes internationally recognized artists whose work is found in such prestigious museums as the New York Metropolitan Museum of Art and Museum of Modern Art, and who have garnered numerous prizes, awards, grants, fellowships, and other honors. Many are represented by galleries here and abroad. Being in the heart of the art world, the department draws on New York's vast community of distinguished artists for our faculty and for the many visiting artists, art historians, critics, and curators who regularly lecture and give individual critiques of student work as part of a program that supplements the formal curriculum. In addition, our students have easy access to New York City's great museums and countless galleries.

A large percentage of our graduates are successful artists, many of whom sell their work in commercial galleries. Others have become commercial artists, illustrators, computer graphics designers, architects, art directors, cartoonists, art restorers, and fashion designers— bringing their fine-arts sensibilities to these related fields. A number have won such major honors as the Guggenheim, Fulbright, Pollock-Krasner, and the Prix de Rome.

Matriculation requirements
Applicants must offer at least 36 credits in courses in art history and studio disciplines including a well-balanced distribution of credits in two-dimensional and three-dimensional studies acceptable to the Art Department.

Applicants must submit directly to the department graduate admissions committee a statement of graduate objectives and a selection of work in art emphasizing the intended area of concentration. Slides are acceptable. Materials should be sent to the committee before February 1 for fall admission. Applicants must also submit a completed application to the Brooklyn College Division of Graduate Studies. General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Forty-eight credits are required for the degree.

The following courses are required: Art 702X, 704X, Art 728X, Art 729X, 782.1G, 782.2G, 782.3G, and nine credits in approved advanced art history courses. Art 782.1G, 782.2G, and 782.3G must be taken in sequence, usually beginning in the first term of matriculation. Art 798G may be repeated for credit.

Students must also complete 12 credits in advanced studio art, internship, or independent study electives. Students must also complete 6 credits chosen from graduate level electives outside the department.

Independent creative work developed in Art 782.1G, 782.2G, and 782.3G must culminate in a final exhibition with accompanying written paper that must be reviewed and approved by a thesis committee consisting of two Art Department faculty and one faculty member from outside the department.

Courses in the Art Department offered toward the degree must be 700-level courses.

The program of study, including independent work, and outside cognate electives, must be approved by the deputy chairperson.

Charles G. Shaw Awards
For distinction in painting, the Art Department grants awards each term to a number of graduate students matriculated in the M.F.A. program.

M.A. in art history
HEGIS code 1003; SED program code 02017

The M.A. in art history is taught by a distinguished faculty whose publications have received international recognition and numerous prizes. Areas of study include ancient and medieval art, Byzantine and Islamic art, Renaissance and Baroque art, nineteenth-century European art, and modern and contemporary art and theory. Architecture is taught throughout the curriculum. Most of the faculty are active in the doctoral program at the Graduate Center of the City University of New York and bring the very latest in art historical research and methodologies to their M.A. classes at Brooklyn College.
The program prepares students to take jobs in museums and cultural organizations and also provide a gateway for those interested in pursuing a doctoral degree. Study is facilitated and enriched by the department’s Meier Bernstein Art Library and the program of guest lectures that it sponsors. The College’s main library also houses a large collection of art and art history books, periodicals, and digital materials. The program takes full advantage of New York’s great museums and galleries and its numerous art-related events, lectures, symposia, and other cultural opportunities. Teaching internships are available in the department for advanced students.

Matriculation requirements
Applicants must offer a spread of advanced art history courses, each in a different major period or specialization of art history acceptable to the department.

The department may require an interview.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits are required for the degree.

Students must complete thirty credits in art history. Students are required to take Art 783G. Up to six credits can be taken out of the department, as a substitution for art history credits, provided that the student has the permission of the art history deputy chairperson.

During the first two years, a minimum of one course each term is required. This requirement may be waived by the art history deputy chairperson.

Within the first year, students must pass an examination to determine their general knowledge of art history.

Students must submit a thesis of publishable quality acceptable to the department.

Students must pass a reading examination in French or German. The examination for a required language may be waived for a native speaker with permission of the art history deputy chairperson.

Information about requirements for the thesis is in the section “Academic Regulations and Procedures.”

Courses in the Art Department offered toward the degree must be 700-level courses.

The program of study must be approved by the art history deputy chairperson.

Recommendations
Students should audit courses in related fields in other departments.

For experience in college-level teaching, students may work with the instructor of an undergraduate course in their area of concentration. Collaboration is encouraged in preparing lectures, making up exams, and reading papers.

M.A., art teacher (all grades)
HEGIS code 0831; SED program code 26751
The art education program at Brooklyn College is committed to preparing quality art teachers who are skilled makers of art, insightful observers of visual culture, and articulate advocates for art education in public and independent schools. For students who hold a bachelor's degree from an accredited institution in either art or art education, we offer two master of arts degrees in art education. For students who already hold a master's degree in art or related discipline, we offer a non-degree teaching certificate. The curriculum consists of courses in the School of Education and a sequence of art studio and academic courses and field experiences that are scheduled to accommodate students who have family and/or professional responsibilities. Most students complete the program in two years, however individuals are free to set their own pace for progressing through the program. The courses required by the School of Education vary depending on the entry qualifications of students.

The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the School of Education for the current requirements.

Matriculation requirements
Applicants must offer at least 30 credits in courses in art history and studio art, including basic design workshops (two-dimensional and three-dimensional), drawing and painting, sculpture and crafts, and other advanced courses acceptable to the Art Department.

Applicants must offer (a) or (b) or (c):

(a) New York State Initial Certification in teaching art for all grades.

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching art in all grades; 100 hours of fieldwork; 40 days or 300 hours of student teaching of art in all grades; or one year of full-time teaching of art in all grades; and submission of scores on the Liberal Arts and Science Test (L.A.S.T.).

(c) an undergraduate degree with a major in art or appropriate course work in art, and submission of scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.
International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Art Department.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty to 46 credits are required for the degree.

Students must complete the following 15 credits in the Art Department: Art 733X, 751X, 763X, and 6 credits in advanced courses in studio art or art history. Students must complete 18 to 31 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold.

Students who possess Initial Certification in teaching art must complete 15 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching art or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching art must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I in addition to courses in Groups II and III, below. Students who already have a master's degree but wish Initial Certification must take appropriate courses in Groups I and II, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

Group I:
Education 763.17T, 764.5T, 723.17T, 764.51T.

Group II:
Education 742.3T, 721.17T, 722.17T, 724.17T, 781X.

Group III:
Education 716X, 726.1X, 731.3T, 751.2T, 751.1T, 784.2X, 792.2X, Education 792.4X/English 779X, Education 796X/Theater 741X, Education 799.5X.

The program of study must be approved early in the first semester by the chairperson or the deputy chairperson of the Art Department and the head of adolescence education and special subjects in the School of Education.

CUNY Ph.D.
The City University of New York offers a doctoral program in art history. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” The Art Department offers courses at Brooklyn College in art history that are creditable toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information about the courses, students should consult the art history program adviser of the Art Department and the executive officer of the doctoral program.

Courses
Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

623.1T Introduction to Drawing and Color I
60 hours; 3 credits
Workshop for students who are not art majors and want to continue in art beyond the basic workshop. Practice in drawing. Creative work in color. Discussion of masterworks of the past and present in terms of actual workshop problems. Museum visits. (Not open to students who have completed an introductory course in drawing or painting.)
Prerequisite: a course in basic design.

642T Painting
60 hours; 3 credits
Advanced workshop in various painting media. Discussion of materials and techniques. Lecture.
Prerequisite: matriculation for the M.S. in Ed. in the liberal arts option in art; and Art 623.1T or the equivalent of the course.

645T Photography
60 hours; 3 credits
Prerequisite: matriculation for the M.S. in Ed. in the liberal arts option in art; and Art 623.1T or the equivalent of the course.

651T Sculpture
60 hours; 3 credits
Prerequisite: matriculation for the M.S. in Ed. in the liberal arts option in art; and Art 623.1T or the equivalent of the course.
653T Ceramics
60 hours; 3 credits
Workshop in the development of creative ceramics skills for elementary school teachers. Forming, texturing, and glazing. Firing techniques; use and maintenance of kilns.
Prerequisite: matriculation for the M.S. in Ed. in the liberal arts option in art; and Art 623.1T or the equivalent of the course.

700G Basic Studies in Connoisseurship
30 hours plus conference; 3 credits
Seminar or colloquium. Comprehensive study of art history through examination and evaluation of works of art, of various periods, in museums and private collections. Meetings conducted by faculty and guest speakers. Comprehensive examination.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art, or permission of the deputy chairperson.

702X Workshop in the History of Art
60 hours; 3 credits
Study of past and present art using techniques of art history and the design workshop. Workshop assignments correlated with lecture material to develop historical insight through immediate experience.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art, or permission of the deputy chairperson.

704X Workshop in the Theory and History of Design
60 hours; 3 credits
Historical analysis of basic design concepts. Evolution of handcrafted design from ancient times to the present. Assigned readings. Seminars and workshop demonstrations.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. or permission of the deputy chairperson.

706G Topics in Egyptian and Near Eastern Art
30 hours plus conference; 3 credits
Specific topics are announced one year in advance. Students may take this course twice but may not repeat topics. (Not open to students who have completed the same topic in Art 706.1G.)
Prerequisite: matriculation for the M.A. in art history or permission of the deputy chairperson.

707G History of Photography
30 hours plus conference; 3 credits
Seminar or colloquium. Technical and aesthetic history of photography. Its relation to other arts.
Prerequisite: permission of the deputy chairperson.

708G Problems in Egyptian and Ancient Near-Eastern Art
30 hours plus conference; 3 credits
Seminar or colloquium. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 708.1G, 708.2G, 708.3G.)
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art, or permission of the deputy chairperson or the art history program adviser.

711G The Classical Period in Greek Art
30 hours plus conference; 3 credits
Architecture, sculpture, and painting of the Greek world in the fifth and fourth centuries B.C.,
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art, or permission of the deputy chairperson.

712G Seminar in Art Historical Methodology
30 hours plus conference; 3 credits
Research techniques and methodologies essential to the field of art history. Topics will include studying oeuvre catalogues and doing archival work to conducting interviews.
Prerequisite: matriculation for the M.A. in art history.

718G Foundations of Islamic Art
30 hours plus conference; 3 credits
Exploration of the foundations of Islamic art beginning with the Middle East in the seventh century, following the spread of these artistic developments through North Africa, Europe, and into Central Asia up to the early Ottoman Empire in the sixteenth century. Study of aniconism and iconoclasm, the presentation and collection of Islamic art in Western museums, and the influence of Islam on the intellectual and cultural life of the West.
Prerequisite: matriculation for the M.A. in art history.

720.1G Byzantine Art I: From the Catacombs to Iconoclasm
30 hours plus conference; 3 credits
Catacomb art in fresco and sarcophagi. Church-building activities from Constantine to Justinian. Earliest Bible cycles in manuscript and mosaic. Growing popularity of icons. Art of the imperial capital of Constantinople.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art, or permission of the deputy chairperson.

723G Gothic Art in Europe
30 hours plus conference; 3 credits
Major twelfth-century and thirteenth-century monuments of architecture, sculpture, painting, and metalwork.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art, or permission of the deputy chairperson.
724G Topics in Early Medieval, Romanesque, and Gothic Art
30 hours plus conference; 3 credits
Specific topics are announced one year in advance. Students may take this course for credit three times but may not repeat topics. (Not open to students who have completed the same topic in Art 724.1G or 724.2G.)
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

725G Problems in Early Medieval, Romanesque, and Gothic Art and Architecture
30 hours plus conference; 3 credits
Seminar or colloquium. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 725.1G, 725.2G, or 725.3G.)
Prerequisite: a course chosen from Art 719G through 723G in medieval art appropriate to the selected problem of the term or permission of the deputy chairperson or the art history program adviser.

729X Writing and Practice
45 hours; 3 credits
A seminar taught by an eminent artist, critic, curator, or historian that aims to acquaint students with a broad range of critical thinking and to develop students' skills in verbal and textual analysis. It is intended as a stimulus to art-making and helps to form the critical and conceptual foundation for students to bring back to their studio practice. The course is taken in the third semester and includes artists' writings and the development of the students own thesis proposals.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art or permission of the deputy chairperson.

728X Collaborative Strategies
3 hours; 3 credits
A studio course in which students will work together to create co-authored artworks. Emphasis will be placed on experimental works bringing together disparate media. The role of collaboration in the arts will be discussed, including examples of important collaborative groups and examples of different models for collaboration. Students will be challenged to examine new communicative strategies vis-a-vis other artists. The course is taken in the first semester as an introduction to the ideas and art of all the students in the first year of graduate study.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art or permission of the deputy chairperson.

733X Advanced Drawing Techniques I
60 hours; 3 credits
Advanced work in various drawing media. Emphasis on development of mastery in creative draftsmanship and black-and-white composition. Figure drawing.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A.; and a minimum of two undergraduate drawing courses or permission of the deputy chairperson.

734X Advanced Drawing Techniques II
60 hours; 3 credits
Continuation of Art 733X.
Prerequisite: Art 733X.

743X Advanced Painting Techniques I
60 hours; 3 credits
Advanced creative work in easel painting. Analysis of various techniques. Utilization of a variety of media.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A.; and a minimum of two undergraduate painting courses or permission of the deputy chairperson.

744X Advanced Painting Techniques II
60 hours; 3 credits
Continuation of Art 743X.
Prerequisite: Art 743X.

745X Creative Photography I
60 hours; 3 credits
Advanced creative work in camera and darkroom techniques aimed at developing individual expression and technical mastery. Independent research in contemporary trends. Seminar discussion.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A.; and a minimum of two undergraduate courses in creative photography or permission of the deputy chairperson.

746X Advanced Creative Photography II
60 hours; 3 credits
Continuation of Art 745X.
Prerequisite: Art 745X.

746X Advanced Creative Photography II
60 hours; 3 credits
Continuation of Art 745X.
Prerequisite: Art 745X.

747X Advanced Ceramics
60 hours; 3 credits
Traditional and contemporary methods of form making, decoration, glaze chemistry, firing techniques.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A.; and at least one undergraduate course in ceramics.
750X Workshop in the History of Photography and the Motion Picture
60 hours; 3 credits
Historical survey of the art of the camera from the nineteenth-century daguerreotype through still photography and motion pictures of the present. Workshop assignments correlated with lecture material.
Prerequisite: a minimum of 18 undergraduate credits in art courses or permission of the deputy chairperson.

751X Sculpture I
60 hours; 3 credits
Problems in creative sculpture stressing individual solutions and versatile craftsmanship in different materials and techniques. Discussion of history and theory of sculpture. Lecture.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art.

752X Sculpture II
60 hours; 3 credits
Problems in creative sculpture stressing individual solutions and versatile craftsmanship in different materials and techniques. Discussion of history and theory of sculpture.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art; Art 751X, or a minimum of two undergraduate courses in three-dimensional design and sculpture media, or permission of the deputy chairperson.

755G Renaissance Painting in Florence and Vicinity during the Fifteenth Century
30 hours plus conference; 3 credits
Formation and development of the early Renaissance style in Florentine painting of the fifteenth century.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

757G The High Renaissance and Its Aftermath in Florence and Rome
30 hours plus conference; 3 credits
Inception, fruition, and disintegration of the High Renaissance style in painting and sculpture of central Italy.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

760G Topics in Italian Renaissance Art and Architecture
30 hours plus conference; 3 credits
Specific topics are announced one year in advance. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 760.1G, 760.2G, or 760.3G.)
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

761G Northern European Painting
30 hours plus conference; 3 credits
Stylistic and iconographic characteristics of northern European painting of the fifteenth century.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

762G Problems in Late Gothic and Renaissance Art and Architecture
30 hours plus conference; 3 credits
Seminar or colloquium. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 762.1G, 762.2G, 762.3G.)
Prerequisite: a course chosen from Art 753G through 761G in late Gothic or Renaissance art appropriate to the problem of the term or permission of the deputy chairperson.

763X Printmaking I
60 hours; 3 credits
Advanced work in a wide range of graphic techniques including etching, engraving, dry point, lithography, wood-block printing. Extensive work in drawing. Emphasis on individual creative achievement.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art.

765X Printmaking II
60 hours; 3 credits
Advanced work in a wide range of graphic techniques including etching, engraving, dry point, lithography, and woodblock printing for the experienced printmaker. Emphasis on individual creative achievement.
Prerequisite: matriculation for the M.A. in teaching art or matriculation for the M.F.A. in art; Art 763X, or a minimum of two undergraduate courses in printmaking techniques, or permission of the deputy chairperson.

767G Baroque Art in Italy
30 hours plus conference; 3 credits
Origins and development of the Baroque style in painting and sculpture in seventeenth-century Italy.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

769G Baroque Painting outside Italy
30 hours plus conference; 3 credits
Origins and development of the Baroque style in painting and sculpture in seventeenth-century Spain, France, and the Low Countries.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

772G Topics in Baroque Art and Architecture
30 hours plus conference; 3 credits
Specific topics are announced one year in advance. Students
may take this course twice but may not repeat topics. (Not open to students who have completed the same topic in Art 772.1G.)

Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

773G Problems in Baroque Art and Architecture
30 hours plus conference; 3 credits
Seminar or colloquium. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 773.1G, 773.2G, or 773.3G.)
Prerequisite: a course in Baroque art chosen from Art 767G, 769G, and 771G appropriate to the problem of the term or permission of the deputy chairperson or the art history program adviser.

775G Problems in Near-Eastern and Far-Eastern Art and Architecture
30 hours plus conference; 3 credits
Seminar or colloquium. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 775.1G, 775.2G, or 775.3G.)
Prerequisite: a course in Near-Eastern and/or Far-Eastern art and architecture appropriate to the selected problem of the term or permission of the deputy chairperson or the art history program adviser.

776G Topics in Near-Eastern and Far-Eastern Art
30 hours plus conference; 3 credits
Consideration of the character and development of Persian, Islamic, Indian, Indonesian, Chinese, and Japanese art. Areas of study are selected by the instructor. Students may take this course four times but may not repeat topics. (Not open to students who have completed the same topic in Art 776.1G, 776.2G, or 776.3G.)
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson or the art history program adviser.

777G The Aesthetics of Information
60 hours of workshop; 3 credits
Examination of critical thought about art and technology. Issues of identity construction, interface, performativity, virtuality, and representation. Creative projects as well as short papers are required.
Prerequisite or corequisite: matriculation for the M.A. degree, art teacher (K–12), or matriculation for the M.F.A. degree in art.

778G Advanced Digital Art I
60 hours of workshop; 3 credits
Strategies of media translation, replication, and distribution, with an emphasis on cross-media creative work. Print, video, and net art projects.
Prerequisite or corequisite: matriculation for the M.A. degree, art teacher (K–12), or matriculation for the M.F.A. degree in art.

779G Advanced Digital Art II
60 hours; 3 credits
Techniques of incorporating viewer intervention into a perceptual environment. Interactive art possibilities and venues, including site-specific installations (custom interface design and physical computing) and network based work (VRML or Quicktime VR). This course is the same as Computer and Information Science 753G.
Prerequisite or corequisite: matriculation for the M.A. degree, art teacher (K–12), or matriculation for the M.F.A. degree in art, or Computer and Information Science 741X or 752X.

781T Projects in Creative Art for the Classroom
30 hours plus conference; 3 credits
Initiation and development of projects in creative art in consultation with the instructor. Presentation of an evolving portfolio to both art and education faculty for evaluation. Must satisfy standards of originality and execution consistent with achievement of the advanced degree, and demonstrate and document how personal artistic knowledge translates into classroom practice. (This course is the same as Education 781X).
Prerequisite: matriculation for the M.A. in teaching art.

782.1G Master Seminar and Research
30 hours plus 120 hours of independent work and conference; 6 credits
Evaluative and critical techniques in the visual arts, applying analytical criteria to the student's independent work in a medium. Examination of historical models of style and theory as antecedents of contemporary practice. Emphasis on independent development and exploration within a chosen medium. Preparation of a written prospectus. Review and approval by the graduate faculty committee is required before taking Art 782.2G.
Prerequisite: matriculation for the M.F.A. and Art 782.1G and a minimum of two elective studio courses related to the concentration.

782.2G Master Project I
Minimum of 180 hours of independent work and conference; 6 credits
Independent research, development, and production of creative work in the student's concentration. Written report. Review and approval of work in progress by the graduate faculty committee is required before taking Art 782.2G.
Prerequisite: matriculation for the M.F.A. and Art 782.1G and a minimum of two elective studio courses related to the concentration.
782.3G Master Project II
Minimum of 180 hours of independent work and conference; 6 credits
Continuation of Art 782.2G. An exhibition of work and a written report are reviewed and must be approved by the graduate faculty committee at the end of the term.
Prerequisite: matriculation for the M.F.A. and Art 782.2G.

783G Seminar in Art Historical Methodology
30 hours plus conference; 3 credits
Research, writing techniques, and methodologies essential to the field of art history. Topics include studying oeuvre catalogues, doing on-site archival work, and conducting interviews.
Prerequisite: matriculation for the M.A. in art history or permission of the chairperson.

784G Internship
60 hours; 3 credits
Some undergraduate art teaching. Preparing lessons and instructional materials, and assisting the instructor in presentations and evaluations.
Prerequisite: matriculation for the M.F.A. in art and permission of the instructor.

787G Impressionism and Postimpressionism
30 hours plus conference; 3 credits
Origins and development of Impressionism, Postimpressionism, and Neoimpressionism in European painting from 1850 to 1900.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

789G European Art since 1900
30 hours plus conference; 3 credits
Major trends in European painting and sculpture in the first half of the twentieth century.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

790G Women in Art
30 hours plus conference; 3 credits
Exploration of the changing image and role of women in art from the Renaissance to the present. Major artists including Gentileschi, Delaunay, Modersohn-Becker, Kahlo, O'Keefe, and Sherman will be studied. Issues of gender, race, and contemporary feminist theory will be discussed.
Prerequisite: matriculation for the M.A. in art history, the M.F.A. in art, the M.A. in art education, or permission of the deputy chairperson.

792G Art Theory and Criticism
30 hours plus conference; 3 credits
Perspectives on art from different cultures and periods; interpretation and analysis of works of art through various approaches from art history, art criticism, and art theory. New materials and definitions of contemporary art. Topics include biography, formal analysis, iconography, social history, gender, race, psychoanalysis, modernism, post-structuralism.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art, the M.A. in art education, or permission of the deputy chairperson.

793G Modern Art in America
30 hours plus conference; 3 credits
Development of art in America from 1860 to the present.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

794G American Art from World War II to the Present
30 hours plus conference; 3 credits
Major contemporary painters and sculptors seen in relation to broader trends and developments. Emphasis on the New York school.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

795.1G Modern Architecture to World War I
30 hours plus conference; 3 credits
Origins of the modern movement in stylistic and technological developments of the nineteenth century. Formulation of diverse conceptions of a new architecture before World War I.
(Not open to students who have completed Art 795G.)
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

795.2G Modern Architecture since 1914
30 hours plus conference; 3 credits
Major movements of theory and design in twentieth-century architecture. Modernism.
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

796G Topics in Modern European and American Art and Architecture
30 hours plus conference; 3 credits
Specific topics are announced one year in advance. Students may take this course four times but may not repeat topics.
(Not open to students who have completed the same topic in Art 796.1G, 796.2G, or 796.3G.)
Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art or permission of the deputy chairperson.

797G Problems in European and American Art and Architecture of the Nineteenth and Twentieth Centuries
30 hours plus conference; 3 credits
Seminar or colloquium. Students may take this course four
times but may not repeat topics. (Not open to students who have completed the same topic in Art 797.1G, 797.2G, or 797.3G.)

Prerequisite: a course chosen from Art 785G through 795.1G in American or European art appropriate to the problem of the term or permission of the deputy chairperson or the art history program adviser.

798G, 798.1G Special Problems
30 hours plus conference each term; 3 credits each term
Research supervised by a faculty member in the student's area of concentration. Students may take these courses more than once.

Prerequisite: matriculation for the M.A. in art history or the M.F.A. in art and permission of the deputy chairperson or the art history program adviser.

799X, 799.1X, 799.2X, 799.3X, 799.4X Special Problems in Visual Arts Media
90 hours of independent work plus conference each term; 3 credits each term
Research supervised by a faculty member in media problems related to the student's area of interest in the visual arts. Portfolio and/or paper each term.

Prerequisite: matriculation for the M.F.A. in art or the M.A. in teaching art and permission of the deputy chairperson and instructor.

The following courses are inactive and will be offered only if there is sufficient demand:

- 701G Art and Archaeology of Ancient Egypt
- 703G Art and Archaeology of Mesopotamia and Iran
- 705G Modern Urban Design
- 709G Archaic Greek Art
- 710G The Bronze Age in Greece
- 713G Hellenistic Art
- 715G Roman Imperial State Art
- 717G Problems in Aegean, Greek, and Roman Art and Architecture
- 719G Medieval Art to the Time of Charlemagne
- 720.2G Byzantine Art II: From the Macedonian Renaissance to the Fall of Constantinople
- 721G Romanesque Art
- 753G Early Florentine and Sienese Painting
- 759G Late Gothic and Early Renaissance Sculpture in Italy
- 771G Baroque Architecture in Europe
- 774G Japanese Buddhist Art
- 774.1G Early Chinese Painting
- 785G Neoclassicism and Romanticism
- 791G American Art to the Civil War

**Biology**

Office: 200 Ingersoll Hall Extension
Telephone: 951-5396

Chairperson: Peter N. Lipke
Deputy Chairperson, Division of Graduate Studies, Ph.D. Program: Dan Eshel
Deputy Chairperson, Division of Graduate Studies, M.A. Program: Charlene L. Forest
Professors: Eckhardt, Eshel, Gavin, Lipke;
Associate Professors: Basil, Forest, He, N.ishiura, Polle;
Assistant Professors: Ikui, O. valle, Saxena, Singh, Studamire.

**M.A. in Biology**

HEGIS code 0401; SED program code 01987

This master of arts program offers advanced instruction and research in many areas of biology. The degree program includes lectures, colloquia, seminars, laboratory work, and fieldwork. Thesis research is conducted in one of the department's many laboratories, where faculty and students study cell, molecular, developmental, and behavioral biology. This degree prepares students to work in laboratories in academia as well as in biotechnology, pharmaceutical companies, and government laboratories within agencies such as the EPA or FDA. It also provides master's-level research training for biology teachers. Students receiving this degree are well prepared to go on to earn their doctorate. The CUNY Ph.D. prepares students to teach at the college level and perform independent research in academia as well as in industrial and governmental labs.

**Matriculation requirements**

Applicants must offer adequate preparation in the following, with a grade point average of 3.00 or higher: a minimum of 8 credits of introductory biology; an appropriate general physics course; two terms of organic chemistry; and a minimum of two advanced courses selected from the following areas of study: botany, zoology, microbiology, biochemistry, cell biology, anatomy, ecology, evolution, general physiology, or genetics.

The Biology Department's graduate admission committee selects candidates to be admitted to the program. An interview may be required of applicants.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**

Thirty credits are required for the degree. Students must complete 21 credits in courses in the Biology Department. The following courses are required: Biology U793.02G and 799.1G. Biology U791G and Biology U793.01G are strongly recommended, but not required. No more than 2 credits in Biology U791G may be counted toward the degree.

With permission of the deputy chairperson, the remaining credits required for the degree may be in courses in another science department.
In the second year, students must pass a comprehensive examination.

Students must submit a thesis acceptable to the department.

Students must do one of the following: pass a test, given by the department, of their ability to read scientific literature in French, German, Russian, or another language acceptable to the department; or demonstrate proficiency in a computer language.

Information about requirements for the comprehensive examination and thesis is in the section "Academic Regulations and Procedures."

**M.A., biology teacher (7-12)**

HEGIS code 0401.01; NYS SED program code 26742

Based on the required background in science, this program develops the student's knowledge of biology. Courses from the Department of Biology and the School of Education are required. In the Department of Biology, courses are chosen from the offerings described for the master of arts, biology program. In the Department of Education, coursework is chosen from the following areas of study: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching biology in grades 7-12; and submission of scores on the Liberal Arts and Science Test (L.A.S.T.).

(c) an undergraduate degree with a major in biology or appropriate course work in biology, and submission of scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Biology Department.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling. General matriculation and admission requirements of the Division of Graduate Studies are in the chapter "Admission."

**Degree requirements**

A minimum of 34 credits is required for the degree.

Students must complete 22 credits in biology and related areas. Students must complete 12 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching biology must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching biology or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching biology must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III.

Students pursuing Initial Certification in teaching biology must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III.
Students who already have a master's degree but wish Initial Certification in teaching biology must take appropriate courses in Group I and Group III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

Group I:
ED 742X, ED 792.1X, ED 763.04T, ED 764.5T, ED 723.04T, ED 764.51T.

Group II:
ED 742.2T, ED 722.04T, ED 724.04T.

Group III:
ED 716X, ED 721.04T, ED 726.1X, ED 731.3T, ED 751.2T, ED 784.2X, ED 792.2X, ED 792.4X/ENG 779X, ED 796X/THE 741, ED 799.5X.

Students must pass a comprehensive examination or submit a thesis acceptable to the Biology Department. Information about requirements for the comprehensive examination and the thesis is in the chapter “Academic Regulations and Procedures.”

The program of study must be approved early in the first semester by the chairperson or the deputy chairperson of the Biology Department and the head of adolescence education and special subjects in the School of Education.

Fellowships
Some fellowships are available to qualified students. Inquiry should be made of the chairperson at the time of application.

CUNY Ph.D.
The City University of New York offers doctoral programs in biology and biochemistry. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” The Biology Department offers courses at Brooklyn College that are creditable toward the CUNY doctoral degree. For information about the courses, students should consult the deputy chairperson of the Biology Department and the executive officer of the doctoral program.

Sigma Xi
Sigma Xi, the Scientific Research Society, encourages original investigation in the natural sciences, pure and applied. The fields of activity of the society include the physical sciences, the life sciences, the earth sciences, and mathematics. The Brooklyn College Chapter elects students to associate membership in the society on the basis of academic excellence and marked aptitude for research in one of the fields listed above.

Courses
Prerequisite of admission to all courses is permission of the chairperson.
Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

U711X Biotechnology of Algae
2 hours lecture, 1 hour discussion section; 3 credits
Phylogeny, evolution, habitats, growth cycles, and genetic engineering of algae; biosynthetic pathways of algal products and their metabolic regulation; interdisciplinary topics including designing bioreactors, nutritional value of natural products from algae; the economic aspects of patent and management of companies dealing with algae. A required in-depth discussion of topics pertinent to algal biotechnology will take place following every lecture.
Prerequisite: Biology 29; Chemistry 1 or its equivalent; and permission of the chairperson.

U712.01X Introduction to Recombinant DNA Technology: Lecture
30 hours; 2 credits
This course is an introduction to the molecular biology of the gene and some of the methodologies used for the isolation and cloning of genes.

U712.02X Introduction to Recombinant DNA Technology: Laboratory
120 hours; 4 credits
Laboratory work related to the subject matter of Biology U712.01X
Prerequisite or corequisite: Biology U712.01X.

U714.01G Cell Biology: Lecture
60 hours lecture and conference; 4 credits
Intensive study of major areas of cell biology; integration of cellular ultrastructure; metabolism; transmission of cellular information.

U716X Cells in Culture
60 hours laboratory, 15 hours recitation; 3 credits
A mixed-format course on the use of cells in culture, including laboratory experience and a recitation hour. In the laboratory, students perform a series of planned experiments on cell cultures to become familiarized with research techniques. In addition, students carry out a limited project of their own
design after consultation with the instructor. The recitation hour includes discussions of essential techniques used to culture cells and discussions of representative papers from the research literature.

Prerequisite: permission of the instructor.

**U717X Advanced Cell Culture Techniques**
60 hours laboratory; 15 hours recitation; 3 credits
An advanced course on cell culture techniques in which students are responsible for researching the literature and designing one or two advanced sets of experiments from a common list of project topics after consultation with the instructor. The planning of the projects is to include considerations of cost and sources of supply, timing of purchase, equipment availability, reagent preparation, a written proposal of objectives, detailed experimental protocols, appropriate control experiments, recording of results, potential statistical analysis, hypothesis testing, and final interpretation of results. Each project will be concluded with the submission of a written report and an oral presentation.

Prerequisite: Biology U716X and the permission of the instructor.

**U732.01X Applied Microbiology: Lecture**
30 hours; 2 credits
Applied methods in microbiology. Study of growth, metabolism, and genetics of bacteria and fungi, relating to industrial, environmental, food, and medical microbiology.

Prerequisite: a course in microbiology.

**U750.03X Developmental Biology: Lecture**
45 hours; 3 credits
Physiology of development. Mechanisms of fertilization, changes in the metabolism of a fertilized egg, differentiation, alterations in the metabolism of the developing embryo, organizers and their mode of action. Spring term.

**765X Biology of Estuaries**
45 hours; 3 credits
Survey of estuaries and coastal ecosystems; an introduction to major estuarine processes, habitats, and organisms; factors affecting community structure and function. Three all-day field trips.

Prerequisites: open to biology graduates; with permission of the instructor; open to graduates in geology, chemistry, and engineering.

**U791G Colloquium**
15 hours; 1/2 credit
Discussion of recent contributions and research in progress in biology. No more than 2 credits in this course may be applied toward the degree.

**U792.01G, U792.02G Advanced Study**
30 hours; 2 credits
Tutorial study with a faculty member in an area in which formal course work is not offered. Assigned reading, reports, and laboratory or fieldwork. Weekly discussion and examinations by arrangement with the instructor.

**U793.01G Seminar in Special Topics**
15 hours each term; 1 credit each term
Topical discussion of recent contributions in biology. Course content varies from term to term.

**U793.02G Seminar in Special Topics**
30 hours each term; 2 credits each term
Topical discussion of recent contributions in biology. Course content varies from term to term. Students may not repeat topics.

**U793.03G Seminar in Special Topics**
45 hours; 3 credits
Topical discussion of recent contributions in biology. Course content varies from term to term.

**U794.01X Experimental Biology: Lecture**
45 hours; 3 credits
Experimental approach to problems in biology. Course content varies from term to term.

**U794.02X Experimental Biology: Laboratory**
90 hours; 3 credits
Experimental approach to problems in biology. Course content varies from term to term.

**U795.1X Research Topics in Biology**
45 hours; 3 credits
Lecture in selected areas of modern biology. Course content varies from term to term. Students may take this course twice, but may not repeat topics. (Not open to students who have completed the same topic in Biology 795.2X.)

**799.1G, 799.2G Thesis Research**
45 hours each term; 2 credits each term
Research for master's thesis supervised by a faculty member. No more than four credits may be counted toward the degree. Credit is not earned until the thesis is accepted.

Prerequisite: completion of all graduate laboratory courses recommended by the department graduate studies committee.
The following courses are inactive and will be offered only if there is sufficient demand:

- U700.06X Lectures in Genetics
- U705.05X Evolutionary Biology of Vertebrates
- U714.04G Cell Biology: Laboratory
- U720.01X Animal Physiology: Lecture
- U721.01X Methods in Physiological Research: Laboratory
- U760.01G Ecology: Lecture
- U763G Experimental Parasitology: Lecture
- U772G Biological Electron Microscopy

Chairperson: James Howell
Deputy Chairperson, Division of Graduate Studies: Richard S. Magliozzo

Professors: Ciszowska, Davenport, Howell, Levine, Magliozzo, Sanchez-Delgado;
Associate Professors: Dowd, Greer, Kobrak;
Assistant Professors: Brenner, Contel, Jarzecki, Juszczak.

M.A. in chemistry
HEGIS code 1905; SED program code 02083

The M.A. in chemistry degree program, with its course work and thesis research, is appropriate for individuals wishing to pursue careers in the chemical and pharmaceutical industries in research and development or in quality control positions or as preparation for doctoral studies. Students performing research for a master’s thesis may acquire training in several optical or magnetic resonance spectroscopic techniques; in microscopy; in the design of organic and inorganic catalysts; in enzymology and rapid kinetics techniques; in high-performance chemical computing; advanced electrochemistry; chemical synthesis and general analytical chemistry; and/or the application of the tools of modern biochemistry/biotechnology. Faculty mentors sponsor master’s theses in chemical and biomedical research problems. Students may, however, opt out of laboratory research and complete the degree by passing a comprehensive exam.

Matriculation requirements
Applicants must offer the following: two terms of general chemistry including qualitative analysis; one term of analytical chemistry; two terms of organic chemistry; two terms of physical chemistry; two terms of calculus; and two terms of general physics.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits are required for the degree.

Students must complete 19 credits in courses in the Chemistry Department. The following courses are required:

Chemistry 705.1G, 710G, 750G, 757.1G or 770G, 760G, and 790G or 791G.

The remaining credits required for the degree may be in graduate courses in any department approved by the deputy chairperson.

Students must (a) submit a thesis acceptable to the department or (b) pass a comprehensive examination. Students who elect to write a thesis must take Chemistry 700.1G. Chemistry 790G or 791G must be completed before work is begun on the thesis.

Students must (a) pass a test, given by the department, of
their ability to read scientific literature in French, German, Japanese, Chinese, or Russian, or (b) complete an advanced course in computer science approved by the deputy chairperson.

Information about requirements for the thesis is in the section “Academic Regulations and Procedures.”

Courses in the Chemistry Department offered toward the degree must be 700-level courses.

The program of study must be approved by the deputy chairperson.

M.A., chemistry teacher (7–12)
HEGIS code 1905.01; SED program code 26766

Students taking this program gain in-depth knowledge of modern organic, inorganic, and quantum chemistry, biochemistry, and instrumental analysis. Seminar courses provide exposure to diverse subject matter in areas of current research interest within the department and beyond. The School of Education component prepares students for teaching; the required courses vary depending on the entry qualifications of students. All students should consult with the School of Education for the current requirements.

Matriculation requirements

Applicants must offer courses in chemistry as follows: general chemistry, including qualitative analysis; two terms of organic chemistry; and analytical chemistry.

Applicants must also offer (a) or (b) or (c):

(a) New York State Initial Certification in teaching chemistry for grades 7–12;

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching chemistry in grades 7–12; 100 hours of fieldwork; 40 days or 300 hours of student teaching chemistry in grades 7–12, or one year of full-time teaching of chemistry in grades 7–12; and submission of scores on the Liberal Arts and Science Test (L.A.S.T.);

(c) an undergraduate degree with a major in chemistry or appropriate course work in chemistry; and submission of scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Chemistry Department.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements

A minimum of 30 credits are required for the degree.

Students must complete 12 credits in courses in the Chemistry Department.

Six of the remaining 18 credits required for the degree may be taken in the Chemistry Department or in other science subjects directly related to chemistry.

Students must complete 12 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold.

Students who possess Initial Certification in teaching chemistry must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching chemistry or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching chemistry must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below.

Students pursuing Initial Certification in teaching chemistry must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master’s degree but wish Initial Certification in teaching chemistry must take appropriate courses in Groups I and III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

Group I:

ED 742X, ED 792.1X, ED 763.04T, ED 764.5T, ED 723.04T, ED 764.51T.

Group II:

ED 742.2T, ED 722.04T, 724.04T.

Group III:

ED 716X, ED 721.04T, ED 726.1X, ED 731.3T, ED 751.2T, ED 784.2X, ED 792.2X, ED 792.4X/ENG 779X, ED 796X/ThE 741, ED 799.5X.
Students are required to pass a comprehensive examination. Information about requirements for the comprehensive examination is in the section “Academic Regulations and Procedures.”

Courses in the Chemistry Department or other science departments and the School of Education offered toward the degree must be 700-level courses.

The program of study must be approved early in the first semester by the chairperson or the deputy chairperson of the Chemistry Department and the head of adolescence education and special subjects in the School of Education.

**CUNY Ph.D.**

The City University of New York offers doctoral programs in chemistry and biochemistry. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Chemistry Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Chemistry Department and the executive officer of the doctoral program.

**Sigma Xi**

Sigma Xi, the Scientific Research Society, encourages original investigation in the natural sciences, pure and applied. The fields of activity of the society include the physical sciences, the life sciences, the earth sciences, and mathematics. The Brooklyn College Chapter elects students to associate membership in the society on the basis of academic excellence and marked aptitude for research in one of the fields listed above.

**Courses**

Registration for courses numbered 700 and higher requires permission of the deputy chairperson before registration.

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

**665T Chemistry for Secondary School Teachers**

45 hours; 3 credits

Elementary study of theories of chemistry including organic, inorganic, and physical chemistry. This course is for students who plan to teach science in high school. (Not open to matriculants in the M.A. Teacher Education Program, secondary education in chemistry.)

Prerequisite: two terms of general chemistry.

**700.1G, 700.2G, 700.3G Thesis Research**

Minimum of 45 hours laboratory and conference each term; 2 credits each term

Research for master's thesis supervised by a faculty member. Credit is not earned until the thesis is accepted. Laboratory hours to be arranged.

**705.1G, 705.2G, 705.3G Seminar**

30 hours each term; 2 credits each term

Topics selected from various branches of chemistry. Seminars consist of library research and discussion of literature on selected topics or presentation of experimental methods and results.

**710G Advanced Inorganic Chemistry**

45 hours; 3 credits

Theoretical and experimental fundamentals of atomic and molecular structure. Emphasis on physical interpretation.

Prerequisite: two terms of physical chemistry.

**750G Advanced Organic Chemistry**

45 hours; 3 credits

Fundamentals of organic chemical principles, reactions, structures, and mechanisms.

Prerequisite: two terms of organic chemistry.

**757.1G Biochemistry**

45 hours lecture; 3 credits

Properties and reactions of compounds of biological importance. Enzyme kinetics. Biological membranes. DNA replication and repair.

Prerequisite: two terms of organic chemistry.

**758.1G Advanced Biochemistry**

45 hours lecture; 3 credits


Prerequisite: Chemistry 757.1G.

**760G Quantum Chemistry**

45 hours; 3 credits

Foundations of quantum mechanics with applications to atomic and molecular structure.

Prerequisite: two terms of physical chemistry.

**770G Chemical Thermodynamics**

45 hours; 3 credits

Development of the thermodynamic foundations of chemical processes using classical and statistical-mechanical approaches.

Prerequisite: two terms of physical chemistry.
**780G Special Topics in Chemistry**  
45 hours; 3 credits  
Lectures on selected topics or recent advances.

**790G Basic Laboratory Techniques for Research**  
30 hours lecture, 90 hours laboratory each term; 5 credits each term  
Theories and application of modern approaches to the solution of chemical problems.

**791G Basic Laboratory Techniques for Research**  
30 hours lecture, 90 hours laboratory each term; 5 credits each term  
Theories and application of modern approaches to the solution of chemical problems.

**795.1G, 795.2G, 795.3G Introduction to Laboratory Research**  
60, 90, 120 hours laboratory, respectively; 2, 3, 4 credits, respectively  
For students who want to explore the feasibility of different research problems before choosing a thesis topic. Students may work with one or more research supervisors during the term.

The following courses are inactive and will be offered only if there is sufficient demand:

**731G Surface Chemistry**

**733G Environmental Chemistry**

**737G Polymer Chemistry**

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**Computer and Information Science**

Office: 2109 Ingersoll Hall  
Telephone: 951-5657, 951-5659  
Chairperson: Aaron M. Tenenbaum  
Deputy Chairperson, CLAS: Yedidyah Langsam  
Deputy Chairpersons, Division of Graduate Studies: Keith Harrow (Administrative) and Danny Kopec (Counseling)  
Professors: Arnow, Augenstein, Bar-Noy, Harrow, Kopec, Langsam, Parikh, Parsons, Raphan, Tenenbaum, Weiss, Whitlock, Zachos, Ziegler;  
Associate Professors: Chopra, Cox, Dexter, Jones, Rudowsky, Schnabolk, Sklar, Solomon, Thurm, Yanofsky, Zhou;  
Assistant Professors: Clark, Cogan, Yarmish.

The Department of Computer and Information Science offers a master of arts degree program in computer and information science, and a master of science degree program in information systems.

The master of science degree program in computer science and health science (cosponsored by the Department of Health and Nutrition Sciences) is currently not accepting new students.

The Department of Computer and Information Science also participates in the advanced certificate program in performance and Interactive media arts (PIMA).
and technology, including computer systems software engineer, within the constantly expanding fields of information systems. The program provides preparation for a wide variety of positions in business and administrative operations and issues. The M.S. in information systems is designed for students who elect to focus on the use of computer systems to manage areas, including all of the following: knowledge of a high-level computer language (preferably C++ or Java), knowledge of assembly language and computer architecture, a course in discrete structures, a course in data structures, and a course in calculus. Students who do not have some of these requirements can be accepted with the condition that they complete these courses at the undergraduate level.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits are required for the degree. Students must maintain at least a B (3.00) average.

Students must complete 30 credits in courses numbered 700 and above, including at least three courses labeled with an asterisk (*) and at least one course from each of the following five groups:

1. Computer and Information Science 704X, 705X, 707X, 708X, 709.2X, 719.3X;
2. Computer and Information Science 714X, 714.1X, 715X;
3. Computer and Information Science 716X, 716.5X, 717.1X, 717.2X, 717.5X, 718X, 741X, 757X;
5. Computer and Information Science 742.1X, 743X, 747X, 748X, 749X.

Up to 10 credits in courses in other departments may be substituted, with the permission of the deputy chairperson.

Graphics/Multimedia concentration: Students who wish to have a concentration in graphics/multimedia should take any three of the following courses as part of their program in satisfying the degree requirements: Computer and Information Science 717.5X, 741X, 741.1X, 751X, 752X, 753G, 769X.

Students must complete one of the following: (a) Computer and Information Science 799.1G and a thesis acceptable to the department; no more than 6 credits in thesis research may be counted toward the degree; or (b) pass a written comprehensive examination.

As an exception to the general college rule, the comprehensive examination in the Department of Computer and Information Science may be taken in the term preceding the one in which the student will complete all course requirements for the degree. However, all other college regulations concerning the comprehensive examination still apply. Students are strongly advised to take advantage of this exception and to take the comprehensive examination in the earlier semester.

Matriculation requirements
Applicants are expected to have the equivalent of at least 18 credits in computer and information science and related areas, including all of the following: knowledge of a high-level computer language (preferably C++ or Java), knowledge of assembly language and computer architecture, a course in discrete structures, a course in data structures, a course in calculus, and a course in probability and statistics. Students who do not have some of these requirements can be accepted with the condition that they complete these courses at the undergraduate level.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty-six credits are required for the degree. Students must maintain at least a B (3.00) average.

Students must complete all of the following:

(a) Computer and Information Science 704X, 717.1X, 742.1X, 757X, 763X, 765X. Students who have completed an undergraduate course in the area of one or more of these courses may, with the permission of the department, substitute another 700-level course in the department for each such course.

(b) Two courses chosen from among CIS 709.2X, 716X, 716.5X, 718X, 719.3X, 726.1X and 764X.

(c) One of Computer and Information Science 743X, 748X or 749X.

(d) Either Computer and Information Science 758X or 759X.

(e) One of Computer and Information Science 758X or 759X.

(f) Three additional credits in courses numbered 700 or above in the department; with the permission of the deputy chairperson, these credits may be in other departments (e.g., economics, mathematics, or psychology).

(g) Students must do one of the following:
(1) complete Computer and Information Science 799.1G,
Thesis Research, and a thesis acceptable to the
department; or
(2) pass a written comprehensive examination.

As an exception to the general college rule, the comprehensive
examination in the Department of Computer and Information
Science may be taken in the term preceding the one in which
the student will complete all course requirements for the
degree. However, all other college regulations concerning the
comprehensive examination still apply. Students are strongly
advised to take advantage of this exception and to take the
comprehensive examination in the earlier semester.

M.S. in computer science and health science
HEGIS code 0799; SED program code 86190

The master of science, computer science and health science
program, offered in conjunction with the Department of
Computer and Information Science, focuses on the use
of technology in a wide range of health care and medical
services. This program is currently not accepting new students.

Matriculation requirements

Applicants must offer at least 18 credits in undergraduate or
graduate courses in health and nutrition sciences and/or
health-related fields.

General matriculation and admission requirements of the
Division of Graduate Studies are in the section “Admission.”

Degree requirements

Thirty to 52 credits are required for the degree.

Students must complete courses in Group I and Group II.

Group I: All of the following:
Computer and Information Science 601X, 604.1X, 615X,
622X; and Mathematics 607X and 652X.

Students with some background in computer and information
science and statistics (either academic or professional) may
apply to the Department of Computer and Information
Science for waivers of specific courses. Normally students
with a strong undergraduate background in computer and
information science will be exempt from all courses in Group I.
Students exempt from Group I courses will not be required
to take other courses to make up any specific number
of credits.

Group II: All of the following:
1. One course chosen from Computer and Information
Science 713X, 714X, 763X, 764X, and 765X;
2. Two courses chosen from Computer and Information
Science 710X, 717.1X, and 757X;
3. One additional Computer and Information Science course
numbered 700 or above;
4. Health and Nutrition Sciences 771X, 775.1X, and 791.1X;
5. One additional Health and Nutrition Sciences course
numbered 700 or above;
6. Computer and Information Science 777X or Health and
Nutrition Sciences 777X.
7. Students must also complete one of the following:
a) Computer and Information Science 799.1G and 799.2G
and a thesis acceptable to the Department of Computer
and Information Science; or
b) Health and Nutrition Sciences 780X and a thesis or project
acceptable to the Department of Health and Nutrition
Sciences; or
c) Pass a written comprehensive examination.

B.S.-M.P.S. in economics and computer and
information science
HEGIS code 2204; SED program code 02104

Brooklyn College offers a bachelor of science–master of
professional studies degree program in economics and
computer and information science. The program is described
in the Brooklyn College Undergraduate Bulletin. Entry is at the
undergraduate level.

CUNY Ph.D.
The City University of New York offers a doctoral program
in computer science. General information about CUNY Ph.D.
programs is in the chapter “Support for Academic Success
in Graduate School.” Computer and Information Science
Department courses may be credited toward the CUNY
doctoral degree with permission of the executive officer of
the doctoral program. For information, students should consult
the deputy chairperson of the Computer and Information
Science Department and the executive officer of the doctoral
program.

Courses

Unless a prerequisite is specific, a student may apply graduate or undergraduate courses toward
fulfillment of that prerequisite.

*Students completing the requirements for the
M.A. in computer and information science must
complete at least three courses labeled with an
asterisk, as stated under “Degree requirements.”
The Schedule of Classes published each term
lists courses offered. Not all courses are offered
each term.

601X Intensive Introduction to Computing
Using C++
60 hours; 4 credits

Algorithms, computers, and programs. Writing, debugging, and
testing programs. Loops and conditional control structures.
Functions and parameter passing. Arrays, strings and simple
classes. Sorting, searching and other basic algorithms. Input
and output. Programming applications selected from various
disciplines. History and basic concepts of computer science.
604.1X Assembly Language Programming for Microcomputers  
45 hours; 3 credits  

605X Introduction to Computer Applications  
45 hours; 3 credits  
Introduction to the use of the microcomputer in the modern office. Computer literacy. Electronic spreadsheets, database software, word processing. Examination and evaluation of computer peripherals and software for personal computers.

611X Discrete Structures  
45 hours; 3 credits  
Elementary set theory, functions, relations, and Boolean algebra. Switching circuits, gating networks. Definition and analysis of algorithms. Applications of graph theory to computer science. Related algorithms. Introduction to combinatorial computing and counting arguments. Introduction to error analysis. Prerequisite: Computer and Information Science 601X or an introductory programming course.

615X Advanced Programming Techniques  
60 hours; 4 credits  
A second course in programming. Advanced programming techniques emphasizing reliability, maintainability, and reusability. Module design and multi-file programs. Abstract data types. Objects, classes, and object-oriented design. Storage class and scope. Addresses, pointers, and dynamic storage allocation. Test suites, test drivers, and testing strategies; debugging, assertions, and an introduction to formal techniques. Recursion and function parameters. This course requires a substantial amount of programming. (Not open to students who are enrolled in or have completed Computer and Information Science 622X.) Prerequisite: Computer and Information Science 601X.

622X Data Structures  
60 hours; 4 credits  
Intensive study of advanced non-numerical programming techniques. Data representation, list, tree, and string manipulation algorithms. Data structures in programming languages. Comparative efficiency of algorithms. Storage management algorithms. Sequential file processing. This course requires a substantial amount of programming. (Not open to students who have completed a course in data structures.) Prerequisite: Computer and Information Science 615X.

627X Intensive Introduction to Computer Organization  
45 hours; 3 credits  
Graphical, tabular, and algebraic notations of basic combinational and sequential circuits. Binary-string representations of digits, numerals, and characters. Notations for the description of hardware algorithms. Concept of a bus. Design of a central processor unit; an instruction set, the hardware algorithms for fetching and executing instructions, and graphical designs of a data processing unit and a control unit. Designs of hardwired and microprogrammed control units. Arithmetic algorithms, memory organization, I/O organization. Other advanced topics and alternative machine organizations. Prerequisite: Computer and Information Science 604X or 604.1X, and 611X.

701X Foundations of System Programming  
37 1/2 hours plus conference and independent work; 3 credits  
Programming with the basic resources of the operating system. Process, threads, and the inter-process/thread communication facilities; signals, pipes, sockets, semaphores, and shared memory. Allocation and protection of resources. Process and thread scheduling. Network programming. Prerequisite: a course in data structures.

704X Operating Systems I  
37 1/2 hours plus conference and independent work; 3 credits  
Organization and programming of executive control systems. Batch processing, multiprocessing, multiprocessing and time-sharing systems. File system organization and management. Access and protection control. Resource allocation. Control systems languages. Mathematical models of computer systems. This course requires a substantial amount of programming. (Not open to students who have completed a course in operating systems.) Prerequisite: Computer and Information Science 622X or a course in data structures; and Computer and Information Science 627X or an undergraduate course in computer organization.

*705X Operating Systems II  
37 1/2 hours plus conference and independent work; 3 credits  
Study of the more advanced aspects of operating systems with emphasis on overall design and system structure. Asynchronous operation and interprocess communication. Network operating systems. Debugging and verification. Prerequisite: Computer and Information Science 704X or a course in operating systems.

707X Compiler Construction  
37 1/2 hours plus conference and independent work; 3 credits  
Systems design of higher-level languages and their processors. Comparison and analysis of programming language structures and diction. Syntax description, parsing algorithms and their implementation. Representation of semantics and semantic analysis. Object code generation and optimization. Bootstrapping
37 1/2 hours plus conference and independent work; 3 credits

*708X Programming Languages and Compilers
An advanced course covering the major issues associated with the design and implementation of programming languages: the functional vs. the imperative language, very high-level languages, syntax issues, methods of defining semantics, strong vs. weak typing, extensibility, verification, exception handling, concurrency constructs. The course will not be a survey of existing languages; rather, the emphasis will be on recent and current controversies concerning programming languages in general.
Prerequisite: Computer and Information Science 707X or a course in compilers.

*709.1X Functional Programming Languages
Prerequisite: Computer and Information Science 611X or a course in data structures; and 611X or a course in discrete structures.

*709.2X Object-Oriented Programming
Object-oriented programming concepts and techniques: data abstraction and encapsulation, classes, inheritance, overloading, polymorphism, interfaces. Introduction to and use of one or more object-oriented languages such as C++, Smalltalk, or an introduction to object-oriented design.
Prerequisite: one of the following: Computer and Information Science 704X, 705X, 707X, 708X, or 709X.

*712X Social Algorithms and Social Software
A comprehensive introduction to the mathematical and logical techniques relevant to understanding the structure of social algorithms (social software). The study of social institutions, including electoral systems, including probability game theory, and logic. (This course is the same as Mathematics 612X.)
Prerequisite: Computer and Information Science 611X or its equivalent

*714X Analysis of Algorithms
An introduction to algorithms and their complexity, including models of computation. Review of data structures and techniques of efficient program design. Analysis of algorithms chosen from sorting and searching, graph theory, pattern matching, matrix operations, and combinatorial optimization. Algorithms will be analyzed for their space, time, and other resource requirements. NP-complete problems. Complexity classes.
Prerequisite: Computer and Information Science 622X or a course in data structures; and 611X or a course in discrete structures.

*714.1X Graph and Network Algorithms
Prerequisite: Computer and Information Science 714X

*714.5X Parallel Algorithms
Architectures for parallel machines. Theoretical models for parallel computation. The design of efficient parallel algorithms, including graph algorithms, search algorithms, and algorithms for symbolic computation. Complexity considerations.
Prerequisite: Computer and Information Science 714X or a course in analysis of algorithms.

*715X Algorithms and Complexity
Definitions of P, NP, and P-complete complexity classes and the relationship between these classes. Approximation algorithms and their efficiency. Other complexity classes. Current models and paradigms of computation. The P = NP question is discussed and explored. Advanced topics from contemporary research.
Prerequisite: Computer and Information Science 714X or a course in analysis of algorithms.
716X Artificial Intelligence I
3½ hours plus conference and independent work; 3 credits
Techniques for making machines exhibit intelligent behavior. Topics covered are taken from the areas of problem solving, perception, game playing, knowledge representation, natural language understanding, programs that learn (adaptive programs), expert systems, and programming languages for work in artificial intelligence. This course requires a substantial amount of programming. (Not open to students who have taken an undergraduate course in artificial intelligence.)
Prerequisite: Computer and Information Science 622X or a course in artificial intelligence.

*716.5X Artificial Intelligence II
3½ hours plus conference and independent work; 3 credits
A second-level course in artificial intelligence. Topics discussed will be taken from the areas of knowledge representation, logic and logic programming, pattern-directed inference, reasoning with uncertain or unreliable knowledge, natural language processing, computer vision, machine architecture, and programming languages for artificial intelligence.
Prerequisite: Computer and Information Science 716X or a course in artificial intelligence.

717.1X Database Systems
3½ hours plus conference and independent work; 3 credits
Introduction to database systems. Comparison to file processing systems. Data models. Relational, hierarchical, and network systems. Database design. Normal forms. Study of several real-world database management systems, with an emphasis on microcomputer applications. Database recovery, query and transaction processing, concurrency, distributed and object-oriented databases. This course requires a substantial amount of programming. (Not open to students who are enrolled in or have completed Computer and Information Science 45.)
Prerequisite: Computer and Information Science 622X; and 605X or knowledge of a database management system.

*717.2X Advanced Database Systems
3½ hours plus conference and independent work; 3 credits
Advanced aspects of database systems. Topics are chosen from such advanced topics as dimensional modeling, data warehouse design, data mining, XML integration, geographic information systems, and spatial and temporal data types.
Prerequisite: Computer and Information Science 717.1X or its equivalent.

*717.5X Multimedia Databases
3½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 717.1X or a course in database systems.

*718X Expert Systems
3½ hours plus conference and independent work; 3 credits
Study of systems that apply expertise in specific domains to make analyses and recommendations. The theory, design, and application of such systems will be discussed. Topics include: rule-based systems, inference engines, dealing with uncertainties, user interfaces and knowledge engineering, knowledge acquisition, knowledge representation, induction and learning systems, limits of expert systems. Some current expert systems will be discussed. Students will build a simple expert system as a term project.
Prerequisite: Computer and Information Science 716X or a course in artificial intelligence.

719.1X Logic in Computer Science
3½ hours plus conferences and independent work; 3 credits
Predicate calculus, semantics, models, proof systems and completeness theorems, Herbrand's Theorem, resolution-based theorem proving, applications to automated reasoning, applications to logic programming.
Prerequisite: Computer and Information Science 611X or a course in discrete structures; and 622X or a course in data structures.

*719.2X Logic Programming
3½ hours plus conference and independent work; 3 credits
Elementary formal systems and Post productions, unification algorithms, fixed-point semantics, Prolog interpreters and Prolog-oriented hardware, logic programming systems under development, applications to fifth-generation computing.
Prerequisite: Computer and Information Science 719.1X or a course in mathematical logic.

*719.3X Declarative Programming
3½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 611X, 622X; 704X or 707X or 717.1X.

722X Introduction to Computability and Unsolvability
3½ hours plus conference and independent work; 3 credits
Formal systems, propositional and quantification logic, theorem
proving, equivalent characterizations of effective computability. Turing machines, recursive functions, and sets. Other notions of Godel, Herbrand, Kleene, Church, Post, and Markov. Classification of unsolvable problems.

Prerequisite: an undergraduate course in formal language theory, automata theory, or computability; or Computer and Information Science 714X or a course in analysis of algorithms.

724X Formal Languages and Automata Theory
37½ hours plus conference and independent work; 3 credits
The theory of grammars, regular grammars, context-free and context-sensitive grammars, recognizers. Models of computation, finite state machines, pushdown automata, random access stored program machines. Introduction to notions of category theory and its influences.
Prerequisite: an undergraduate course in formal language theory, automata theory, or computability; or Computer and Information Science 714X or 715X; and Mathematics 652X or a course in probability.

*725X Information and Computation
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 714X or 715X; and Mathematics 652X or a course in probability.

*728X Quantum Computing
37½ hours; 3 credits
Prerequisite: Computer and Information Science 714 and a course in calculus.

*729.1X Cryptosystems
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 722X or 724X.

732.1X Foundations of Cognitive Science
37½ hours plus conference and independent work; 3 credits
Bases for intelligent behavior in humans, animals, and machines. Human and machine intelligence are compared with respect to visual perception, speech perception, language comprehension, learning, and other adaptive mechanisms. This course is the same as Psychology U752.2X.
Prerequisite: a course in probability and statistics; and knowledge of a high-level programming language such as C++, Pascal, PL/I, or LISP.

*733X Natural-Language Processing
37½ hours plus conference and independent work; 3 credits
The study of natural-language processing including linguistic theory, the formal theory of languages, and psycholinguistic investigations into human natural-language processing, both from the point of view of modeling human processing and of developing practical systems for machine processing of natural-language material. This course is the same as Psychology U752.3G.
Prerequisite: Computer and Information Science 622X or a course in data structures.

741X Computer Graphics: Software System Design
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 622X or a course in data structures.
**741.1X Algorithms for Computer Graphics**
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 741X or a course in computer graphics.

**742.1X Computer Architecture**
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 627X or an undergraduate course in computer organization.

**743X Teleprocessing Systems**
37½ hours plus conference and independent work; 3 credits
Teleprocessing systems and concepts, communications terminology, types of networks, transmission properties, modems, types of terminals, codes, error-control procedures, multiplexing and concentration devices, access methods, network design and performance, security and reliability, backup and fault isolation, message routing, message queuing, message editing, intelligent nodes, virtual teleprocessing access methods.
Prerequisite: Computer and Information Science 740X or a course in operating systems; Computer and Information Science 742.1X or a course in computer organization; and Mathematics 652X or a course in probability and statistics.

**744X Parallel and Distributed Systems**
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 704X or a course in operating systems.

**744.1X Programming Parallel Processors**
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 704X or a course in operating systems; and Computer and Information Science 714X or a course in analysis of algorithms.

**746X Distributed System Administration**
37½ hours plus conference and independent work; 3 credits
Installation, configuration, and maintenance of an operating system. Configuration of routers, networks, and subnetworks. Installation, configuration, and maintenance of network utilities such as email, web server, and other services. Use of network diagnostic tools. Identification and repair of network and configuration problems.
Prerequisite: Computer and Information Science 704X or a course in operating systems or permission of the chairperson.

**747X Microprocessors**
24 hours lecture plus conference; 21 hours laboratory plus independent work; 3 credits
Introduction to microprocessor technology. History and applications. Microprocessor architecture: 8- and 16-bit processors. Examples of commercially available processors. Instruction sets and software development. Microprocessor memory sections. I/O sections and interfacing techniques. Interrupt systems. Single-chip microcomputers and bit-slice processors. Hands-on laboratory experiments. (Not open to students who have taken a graduate or undergraduate course in microprocessors.)
Prerequisite: Computer and Information Science 627X or an undergraduate course in computer organization.

**749X Computer Communication Networks**
37½ hours plus conference and independent work; 3 credits
Prerequisite: Computer and Information Science 704X or a course in operating systems; Computer and Information Science 742.1X or a course in computer organization; and Mathematics 652X or a course in probability and statistics.
**751X Multimedia Computer Systems**
37.5 hours plus conference and independent work; 3 credits
Prerequisite: One of the following: Computer and Information Science 704X, 717.1X, 741X, 742.1X, 749X, 752X, 769X.

**752X Multimedia Presentations**
37.5 hours plus conference and independent work; 3 credits
Design and implementation of multimedia presentations. Topics include hardware and software aspects of multimedia systems, standards of multimedia storage, compression techniques, authoring fundamentals, multimedia development and the Internet, and current research topics in multimedia-based applications. Students will build a multimedia application using prescribed authoring software.
Prerequisite: Computer and Information Science 622X or a course in data structures.

**753G Advanced Digital Art**
37.5 hours plus conference and independent work; 3 credits
Techniques of incorporating viewer intervention into a perceptual environment. Interactive art possibilities and venues, including site-specific installations (custom interface design and physical computing) and network based work (VRML or Quicktime VR). This course is the same as Art 779G.
Prerequisite or corequisite: matriculation for the M.A. degree, art teacher (all grades), or matriculation for the M.F.A. degree in art, or Computer and Information Science 741X or 752X.

**757X Introduction to Management Information Systems**
37.5 hours plus conference and independent work; 3 credits
The role of people, computers, and communications in management information systems. Feasibility studies. Analysis of information and processing requirements, processing methods, data management, and implementation strategies for on-line, database, and integrated systems and for control of operations. Models of decision making. Economics of information, methods of evaluating alternative courses of action.
Prerequisite: Computer and Information Science 717.1X.

**758X Information Systems Planning and Policy**
37.5 hours plus conference and independent work; 3 credits
The information system (I/S) unit and function as a component of the overall organization. The use of I/S by organizations to gain competitive advantage. Alternative methods for positioning, structuring, and controlling information systems for effectiveness and efficiency. I/S planning strategies and methodologies; roles for steering committees. Emphasis on the strategic (or long-term) aspects of the I/S function, within the organization, in its dealing with suppliers, competitors, and customers/clients, and in its impact on society.
Prerequisite: Computer and Information Science 757X.

**759X Information Systems Management**
37.5 hours plus conference and independent work; 3 credits
Management of the systems development, maintenance/ enhancement, technical support, telecommunications, and operational functions of I/S, including project planning and control, make: buy analysis, and other methods of evaluating alternative courses of action; information systems portfolio assessment. Emphasis on the tactical (short-term) aspects of I/S.
Prerequisite: Computer and Information Science 757X.

**760X Advanced Microcomputer Applications**
37.5 hours plus conference and independent work; 3 credits
A survey of advanced microcomputer administrative applications. Use and impact of microcomputer hardware and software. Integrated software and programming, networking, and the automated office. Ethical and societal impact of personal computing.
Prerequisite: Computer and Information Science 605X or a course in microcomputer applications.

**761X IT Project Management**
37.5 hours plus conference and independent work; 3 credits
The project and the role of the project manager. Project life cycle and phases of a project. The project management plan, obtaining stakeholder buy-in, integrating business and IT expertise into the design. Managing an ongoing project, change control and scope-creep management. Time management scheduling using time management software—Gantt charts, Critical Path Method (CPM) and Program Evaluation and Review Technique (PERT). Cost estimation, project budgeting and cost control. Quality control tools and techniques. Building, managing and motivating a project team. Monitoring and managing risk. Bringing a project to closure.
Prerequisite: Computer and Information Science 757X.
**763X Software Methodology**
37½ hours plus conference and independent work; 3 credits

Prerequisite: Computer and Information Science 704X or 707X or 713X or a course in operating systems or a course in compilers or a course in searching and sorting.

**764X Topics in Systems Simulation**
37½ hours plus conference and independent work; 3 credits
Techniques for the simulation of complex systems; simulation of computer systems. Random number generation, uniformly distributed random numbers, other distributions, tests of randomness. Statistical issues in simulation. Queuing theory, Poisson arrival process, various queue disciplines, single server and multiserver queues. Survey of simulation languages; GPSS and SIMSCRIPT. Simulation methodology.

Prerequisite: Computer and Information Science 622X or a course in data structures; and Mathematics 652X or a course in probability and statistics.

**765X Systems Analysis and Design**
37½ hours plus conference and independent work; 3 credits
Fundamental concepts of systems, principles of modeling, use of feedback, hierarchical structures, systems complexity and simplification. Database systems concepts, database design, analytical and experimental methods for computer systems analysis, system performance evaluation, throughput determination.

Prerequisite: Computer and Information Science 622X.

**767X Performance Evaluation of Computer Systems**
37½ hours plus conference and independent work; 3 credits

Prerequisite: Computer and Information Science 704X or a course in operating systems; Mathematics 607X or two terms of calculus; and Mathematics 652X or a course in probability and statistics.

**768X Numerical Methods**
37½ hours plus conference and independent work; 3 credits

Prerequisite: a course in linear algebra and an elementary course in differential equations.

**769X Digital Signal Processing**
37½ hours plus conference and independent work; 3 credits
Introduction to discrete time signals and their spectral representation. The concept of sampling and the relationship between continuous signals and their representation on a digital computer. The design of computer algorithms using techniques of digital signal processing for application in digital filter design, digital picture processing, and speech recognition and synthesis.

Prerequisite: Mathematics 607X or two terms of calculus; and Computer and Information Science 714X or a course in analysis of algorithms.

**769.1X Robot Vision**
37½ hours plus conference and independent work; 3 credits

Prerequisite: Computer and Information Science 734X or 769X.

**777X Computer Applications in Health Sciences**
45 hours; 3 credits
Use of computers in health-related fields. Understanding unique theoretical and practical applications to health science research, education, and clinical practice. Course includes projects tailored to the interests of individual students. This course is the same as Health and Nutrition Sciences 777X.

Prerequisite: one 700-level course in health and nutrition sciences and one 700-level course in computer and information science.

**780.1X Seminar in Computer Science I**
37½ hours plus independent work each term; 3 credits each term
Readings, discussions, and reports on topics in computer science.
**Economics**

Office: 218 Whitehead Hall
Telephone: 951-5317, 951-5101

Chairperson: Robert Bell
Deputy Chairperson, Division of Graduate Studies: Emanuel D. Thorne
Deputy Chairperson, Division of Graduate Studies, Accounting admissions: Moishe Zelcer
Deputy Chairperson, Division of Graduate Studies, Business program: Herve Oueane
Deputy Chairperson, CLAS: Hershey H. Friedman
Deputy Chairperson, SGS: Taiwo L. Amoo
Professors: Bell, Clarke, Davidoff, Friedman, Laibman, Sardy, Solomon, Uctum;
Associate Professors: Amoo, Bhattacharya, Fox, Frankenstein, Giladi, H irakubo, Klein, Langbert, López-Pumarejo, McTague, Peng, Q ueane, Stone, Testa, Thorne, W idman;
Assistant Professors: Connell, Fogel, Kass-Shraibmann, Lin, Lynch, Manlow;
Lecturers: Reich, Sauber.

**M.A. in economics**

**HEGIS code 2204; SED program code 01880**

An economics degree can provide students with a variety of career paths ranging from public policy to international finance to banking. The Economics Department offers a 33-credit master of arts degree in economics with two options for specialization: economic analysis or global business and finance. Option one is more flexible and allows students to explore different areas of economics including health economics, government finance, evolution of modern economic thought, and international trade. Option two is more focused and is expressly for students with an interest in global business and finance. It includes courses in global finance and management, international economics and finance, bargaining and conflict resolution, global business environment, and international human resource management.

All applicants must have undergraduate courses in macroeconomics, microeconomics, statistics, and calculus.

**Degree requirements**

A minimum of 33 credits is required for the degree. Students must complete at least 24 credits in the Economics Department. The following courses are required: Economics 710X, 720X, 725.1X, 700X, 721X. With permission of the graduate deputy chairperson, up to nine credits may be taken in appropriate courses in other departments.

With permission of the graduate deputy chairperson, up to 12 credits may be accepted for work done at other institutions.

Students select one of the following options to complete the remaining credits:

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**781.1X Seminar in Computer Science II**
3 1/2 hours plus independent work each term;
3 credits each term
Readings, discussions, and reports on topics in computer science.
Prerequisite: Computer and Information Science 780.1X.

**785.1X, 785.2X Advanced Seminar in Computer Science I, II**
3 1/2 hours plus independent work each term;
3 credits each term
Readings, discussions, and reports on advanced topics in computer science.

**790X, 791X Research Project I, II**
Minimum of 90 hours of independent work each term;
3 credits each term
Development of computer systems supervised by a staff member. Students work individually or in groups and are expected to prepare a detailed report describing the project and its contributions. Achievement is measured by demonstrable attainment of the project's goals.
Prerequisite of 790X: permission of the chairperson.
Prerequisite of 791X: Computer and Information Science 790X

**799.1G, 799.2G, 799.3G Thesis Research**
Hours to be arranged; 2 credits each term
Research for the master's thesis supervised by a faculty member. No more than 6 credits may be counted toward the degree. Credit is not earned until the thesis is accepted.
Prerequisite: permission of the chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

**729X Methods of Program Verification**


In order to graduate, all students must do one of the following:
(a) pass a comprehensive examination, in addition to the 33-credit program of study; or
(b) take Economics 783G (Thesis Research) in Option 1 or 2 above, submit a thesis acceptable to the department, plus 30 other credits, for a total of 33 credits; or
(c) take an additional course, Economics 782G (Independent Reading), plus 33 other credits, for a total of 36 credits.

Alternatives (b) and (c) require departmental permission.

Students taking Economics 783G (Thesis Research) must complete all their required economics courses with grades of A or B and must also obtain departmental permission.

M.S. in accounting (C.PA. qualifying)
HEGIS code 0502; SED program code 88398

The master of science in accounting program is registered with the New York State Education Department as meeting the 150 semester-hour requirement. Students who complete the program will be permitted to sit for the CPA examination. Course work emphasizes asset valuation and related problems of enterprise reporting, tax research and planning, comptrollership and managerial accounting, contemporary accounting topics, and accounting requirements of the Securities and Exchange Commission (SEC). This program requires extensive preparation in the areas of professional accountancy and general business. Applicants who have completed the bachelor of science degree in accounting (public accountant) at Brooklyn College satisfy the undergraduate education requirements of this program. All other applicants must have an undergraduate degree in accounting (CPA qualifying) or equivalent to be admitted into the program.

Degree requirements
Thirty-three credits are required for the degree.

Students must complete the following courses:

Accounting:
All of the following: Accounting 706X, 707X, 708X, and 709X.
Two of the following: Accounting 711X, 712X, 714X, 715X, 781X.

Economic analysis:
One of the following: Economics 700X, Economics 705X, or Business 705X, or Economics 710X. Students who have not taken Economics 725.1X or a comparable undergraduate mathematics course are advised to take Economics 705X or Business 705X.

Finance:
Economics 711X or Business 711X or Business 716X.

Quantitative methods:
Economics 722X or Business 722X.

Business Electives/Econometrics:
Two courses from the following: Business 700X, 702X, 704X, 708X, 712X, 718X, Economics 720X, 721X.

With permission of the graduate deputy chairperson, up to 12 graduate credits may be accepted for work done at other institutions.

All students must pass a comprehensive examination (offered twice each year). Students should consult with the graduate deputy Chairperson for further information.

B.S.-M.P.S. in economics and computer and information science
HEGIS code 2204; SED program code 02104

Brooklyn College offers a bachelor of science-master of professional studies degree program in economics and computer and information science. The program is described in the Brooklyn College Undergraduate Bulletin. Entry is at the undergraduate level.

CUNY Ph.D.
The City University of New York offers a doctoral program in economics. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Economics Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Economics Department and the executive officer of the doctoral program.

Courses
The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

700X Microeconomics
30 hours plus conference; 3 credits
Prerequisite: Economics 725.1X, or the equivalent.
705X Managerial Economics
30 hours plus conference; 3 credits
An introduction to microeconomic concepts—demand, cost, profit, pricing strategies, forecasting—with applications to managerial decision making. (Not open to students who have completed Economics 700X.) This course is the same as Business 705X.

710X Macroeconomics
30 hours plus conference; 3 credits
Factors determining the level of national income, output, and employment. Consideration of business cycle theories and of public and private policies to stabilize employment and prices. Fall term.

711X Money and Capital Markets
30 hours plus conference; 3 credits
Sources and uses of funds in financial markets. Market structure of interest rates. Flow of funds analysis. This course is the same as Business 711X.
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

711.1X Evolution of Modern Economic Thought
30 hours plus conference; 3 credits
Ideas from medieval times to the nineteenth century. English classical doctrine and variants. Critical schools and reformers.

713X Government Finance
30 hours plus conference; 3 credits
Economic problems and issues in federal, state, and local government finance. Evaluation of budgetary concepts and procedures. Analysis of the impact of taxation, government borrowing, and expenditures on resource use and on distribution of income and wealth.
Prerequisite: one undergraduate course in macroeconomics and one undergraduate course in microeconomics.
Prerequisite or corequisite: Economics 725.1X.

715X Current Problems in Monetary and Fiscal Policy
30 hours plus conference; 3 credits
Recent developments and current practices in the monetary and fiscal system. Their effects on money stock, money flows, and the liquidity of the economy. Modern ideas of monetary management, techniques of central banking, public debt management, relevant tax and expenditure policies of government. Potential contribution of monetary and fiscal policy to economic growth and to general problems of stability of employment, income, and price levels.
Prerequisite: one undergraduate course in macroeconomics and one undergraduate course in microeconomics.
Prerequisite or corequisite: Economics 725.1X.

720X Econometrics
30 hours plus conference; 3 credits
Introduction to simple and multiple regression analysis, and analysis of variance. General linear model. Introduction to econometric modeling and techniques with an emphasis on applied econometrics. Applications to economics. Fall term.
Prerequisite: undergraduate courses in statistics.

721X Advanced Econometrics
30 hours plus conference; 3 credits
Advanced econometric model building. Econometric principles for cross-sectional, panel, and time-series data sets. Applications to economics. Spring term.
Prerequisite: Economics 720X or the equivalent.

722X Operations Research
30 hours plus conference; 3 credits
Tools and techniques of operations research. Linear programming, inventory and queuing theory, applications of input-output methods. It is recommended that students complete Economics 720X and 725.1X, or their equivalents, before taking this course. This course is the same as Business 722X.

725.1X Mathematical Methods in Economics I
30 hours plus conference; 3 credits
Intended for economics students with little or no preparation in calculus. Mathematical topics frequently used in economics selected from matrix algebra, differential calculus, and partial differentiation. Development of mathematical concepts in the context of economic models. Relation of mathematical methods to their application in economics. Fall term.

725.2X Mathematical Methods in Economics II
30 hours plus conference; 3 credits
Similar to Economics 725.1X. Study of mathematical tools chosen from integral calculus, elementary difference, and differential equations.
Prerequisite: Economics 725.1X or the equivalent background in mathematics.

727 International Trade
30 hours plus conference; 3 credits
Prerequisite: one undergraduate course in macroeconomics and one undergraduate course in microeconomics.
Prerequisite or corequisite: Economics 725.1X.
728X International Economics and Finance
30 hours plus conference; 3 credits
Prerequisite: one undergraduate course in macroeconomics and one undergraduate course in microeconomics.
Prerequisite or corequisite: Economics 725.1X.

730X Analysis of Developed Areas
30 hours plus conference; 3 credits
Factors responsible for differences in rates of economic growth in developed areas.

735X Comparative Economics Systems
30 hours plus conference; 3 credits
Capitalism and other methods of organizing economic activity. Emphasis on the price system and central planning.

772 Health Economics
30 hours plus conference; 3 credits
Economic analysis of the structure, performance, and government policy in the health care sector of the economy. Demand and supply of health care services, the role of third party payers, and the public policy debate over government reform of the health care system. Microeconomic, econometric, and political philosophy concepts relevant to issues of justice in health care. This course is the same as Health and Nutrition Sciences 772.5X.

781X Special Topics
30 hours plus conference; 3 credits
Topics vary from term to term. Students may take this course two times, but may not repeat topics.
Prerequisite: permission of the graduate deputy chairperson.

80 Economics
Accounting 708X Auditing Concepts, Standards, and Procedures
30 hours plus conference; 3 credits
Examination of theory and philosophy underlying verification of financial data. Changing standards and new levels of legal and moral responsibility. Role of control and supervisory agencies. Application of statistical methodology to the audit function. (Not open to students who have completed Economics 708X.)
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

Accounting 709X Financial Statement Analysis
30 hours plus conference; 3 credits
Prerequisite: two undergraduate courses in intermediate accounting or permission of the graduate deputy chairperson.

Accounting 711X Accounting Requirements of the Securities and Exchange Commission and Other Regulatory Agencies
30 hours plus conference; 3 credits
Accounting principles and auditing requirements of the Securities and Exchange Commission and other selected government agencies. Applicable statutes, regulations, court decisions. (Not open to students who have completed Economics 703X.)
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

Accounting 712X Comptrollership and Managerial Accounting
30 hours plus conference; 3 credits
Role, functions, and responsibilities of the corporate comptroller and treasurer. Relevant modern planning and control techniques and their underlying conceptual philosophy. Design, installation, and implementation of management information systems for planning operations, reporting performance, and administering the firm. Decision-making models, profit planning, and performance analysis. (Not open to students who have completed Economics 704X.)
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

Accounting 713X The Legal Environment of Business
30 hours plus conference; 3 credits
Survey of private substantive rights; government regulatory agencies as they relate to business activities; comprehensive examination of regulations concerned with the protection of consumers, investors, employees, and the preservation of the environment and competition. (Not open to students who have completed Economics 752X.)
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

Accounting 714X Contemporary Accounting Topics
30 hours plus conference; 3 credits
Current problems in financial and managerial accounting and the accounting profession. (Not open to students who have completed Economics 714X.)
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

Accounting 715X International Accounting
30 hours plus conference; 3 credits
Prerequisite: two undergraduate courses in intermediate accounting or permission of the graduate deputy chairperson.

Accounting 781X Special Topics
30 hours plus conference; 3 credits
Topics vary from term to term. Students may take this course two times, but may not repeat topics.
Prerequisite: permission of the chairperson or the chairperson's designee.

Accounting 782G Independent Reading
Minimum of 135 hours of independent work and conference; 3 credits
Independent research for students concentrating in accounting. Supervised by a faculty member. This course may be used as a stage in the preparation of a master's thesis. One or more written reports and an oral final examination. (Not open to students who have completed Economics 782G.)
Prerequisite: Accounting 706X, 707X, and 708X; and permission of the chairperson or the chairperson's designee.

Accounting 783G Thesis Research
Hours to be arranged; 3 credits
Thesis research for students concentrating in accounting. Supervised by a faculty member. Students register for this course only once. (Not open to students who have completed Economics 783G.)
Prerequisite: grades of B or better in all of the following: Accounting 706X, 707X, and 708X; and permission of the chairperson or the chairperson's designee.
Business, Management, and Finance

Business 700X Organization Behavior
30 hours plus conference; 3 credits
History of management thought; individual needs, values, motivation, career development, small groups, formal organization, management processes. (Not open to students who have completed Economics 705.2X.)

Business 702 Bargaining and Conflict Resolution
30 hours plus conference; 3 credits

Business 703X Television and Radio Marketing and Promotion
45 hours; 3 credits
Principles of marketing and promotion. Developing marketing and promotion strategies. Implementing campaigns. Evaluating their effectiveness in attracting audiences and building audience share in increasingly competitive electronic mass communication industries. This course is the same as Television and Radio 727X.
Prerequisite: an undergraduate course in marketing or permission of the deputy chairperson.

Business 704X Strategic Management and Business Policy
30 hours plus conference; 3 credits
Focuses on strategy, value creation, and value capture in different business contexts within changing business environments of the 21st century. Provides students with an integrative, top management perspective of directing a business. Special attention will be paid to the role of strategic issues in entrepreneurial ventures and small businesses.

Business 705X Managerial Economics
30 hours plus conference; 3 credits
An introduction to microeconomic concepts—demand cost, profit, pricing strategies, forecasting—with applications to managerial decision making. (Not open to students who have completed Economics 700X.) This course is the same as Economics 705X.

Business 708X Marketing Management
30 hours plus conference; 3 credits
A comprehensive course examining the fundamental concepts and principles involved in the marketing of goods, services, and ideas. Topics covered include: marketing for nonprofit organizations, environments of marketing, strategic planning, buyer behavior, marketing research, market segmentation, product planning and development, pricing, promotion, international marketing, and marketing ethics. (Not open to students who have completed Economics 608X or 709X or Business 608X).
Prerequisite: at least 12 credits in undergraduate courses in accounting, business, and/or economics or permission of the graduate deputy chairperson.

Business 709X Business Management of Sports
45 hours; 3 credits
Principles of management; accounting, budgeting, and control systems for sports organizations, athletic facilities and institutions; labor relations, payroll procedures and taxation; break-even analysis; case studies. (Not open to students who have completed Business 609X.)
Prerequisite: Economics 701X or Accounting 701X or an equivalent college-level accounting course.

Business 710X Innovation and the Drive for Growth
30 hours plus conference; 3 credits
New international centers of innovation, including China, India, Israel, Japan, Latin America, and Russia, as well as the United States and Western Europe. The drive for growth. Examples from international business strategy and structure. Corporate and government approaches to managing innovation.

Business 711X Money and Capital Markets
30 hours plus conference; 3 credits
Sources and uses of funds in financial markets. Market structure of interest rates. Flow of funds analysis. This course is the same as Economics 711X.
Prerequisite: admission to the accounting specialization or permission of the graduate deputy chairperson.

Business 712X Global Business Environment
30 hours plus conference; 3 credits
Key issues and challenges facing businesses in an increasingly global and complex environment. Topics include: globalization, culture and society, technology trends, regulation, competing models of capitalist operation, state-firm relations, industrial policy and stakeholder activism. The nature of these challenges, their influence on business, and the ways in which business can manage them.
**Business 716X Global Finance and Management**  
30 hours plus conference; 3 credits  
Prerequisite: one undergraduate course in macroeconomics and one undergraduate course in statistics.

**Business 718X International Human Resource Management**  
45 hours; 3 credits  
Human resource decisions and practices in an international context. Topics include: recruiting, selection, expatriation, repatriation, training, career management, performance management, compensation, and cross-cultural issues. This course is the same as Psychology 788.29G.  
Prerequisite: an undergraduate course in human resource management or permission of the instructor.

**Business 722X Operations Research**  
30 hours plus conference; 3 credits  
Tools and techniques of operations research. Linear programming, inventory and queuing theory, applications of input-output methods. It is recommended that students complete Economics 720X and 725.1X, or their equivalents, before taking this course. This course is the same as Economics 722X.

**Business 780X Internship**  
Minimum of 140 hours of fieldwork; 3 credits  
Off-campus internship at a site approved and supervised by a faculty member. Final report and evaluation of supervisor are required.  
Prerequisite: Permission of the department.

The following course is inactive and will be offered only if there is sufficient demand:  
**Business 600X Management of Technical Enterprise in Industry**

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**Education**  
Graduate education office: 2105 James Hall  
Telephone: 951-5447, 951-5820  
Dean: Deborah A. Shanley  
Assistant Dean: Kathleen A. McSorley  
Deputy Division of Graduate Studies: Marion Neville-Lynch  
Professors: Brumberg, Fuys, Korn-Bursztyn, N eville Lynch, Martinez-Pons, Rose, Rubal-Lopez, Shanley;  
Associate Professors: Bloomfield, Bursztyn, DeBey, Duboys, Forbes, Kharem, McCabe, Robinurs, Taubman, W inslow;  
Assistant Professors: Bynoe, Elizalde-Utnick, Hwu, Lee, Louis, McSorley, Miele, Novemsky, Parma, Reed, Rosenfield, Rubel, Zolkower.

The teacher education programs lead to initial and/or professional certification. (Former titles were provisional and/or permanent certification.) The program requirements are established by the New York State Board of Regents and the New York State Education Department and are subject to change. All students should consult with the School of Education for the current requirements.

The Early Childhood Center programs provide opportunities for teacher education candidates and other students to study children ranging in age from infancy through the childhood years. Supervised field experiences, observations, and conferences are available.

The School of Education offers the following degree and advanced certificate programs with concentrations or sequences as indicated. An extension in bilingual (Spanish/English) education is available for all teacher programs.

**Early childhood education teacher (birth-grade 2): M.S. in Ed.**  
**Childhood education teacher (grades 1-6): M.S. in Ed.**

- Liberal arts  
- Bilingual education  
- Science and environmental education  
- Mathematics

**Literacy Teacher: M.S. in Ed.**  
Program not accepting new students

**Middle childhood education teacher, mathematics specialist (grades 5-9): M.S. in Ed.**

**Middle childhood education teacher, science teacher (grades 5-9): M.A.**

**Teacher of students with disabilities in early childhood, childhood, and middle childhood: M.S. in Ed.**

- Teacher of students with disabilities in early childhood education (birth-grade 2)  
- Teacher of students with disabilities in childhood education (grades 1-6)  
- Teacher of students with disabilities in middle childhood education generalist (grades 5-9)
**Adolescence education and special subjects:**
M.A.; M.S. in Ed.
(See description below and in appropriate subject area department.)

**Social studies teacher (grades 7-12): M.A.**

**Educational leadership** (formerly school administration and supervision): M.S. in Ed.

**School counseling: M.S. in Ed.; advanced certificate.**

**School psychologist: M.S. in Ed.; advanced certificate.**

**Advanced certificate in autism spectrum disorders**

**Transfer credits**
Students who receive transfer credit must complete at Brooklyn College at least one-half of the credits required in the area of specialization, other than education, and at least one-half of the credits required in education for a master's degree or advanced certificate.

Students should note further requirements found in the section “Academic Regulations and Procedures.”

**M.S. in Ed.: Early childhood education teacher (birth through grade 2)**

HEGIS code 0802; SED program code: 26736

Program Head: Mary DeBey
Program Office: 2309 James Hall
Telephone: 951-5431

The program in early childhood education prepares reflective teachers of children from birth through grade two. Our graduates deeply understand how children grow and develop and can successfully guide young children from diverse cultural, social, and language backgrounds. Central to the program’s philosophy is a commitment to provide quality education for all young children and advocate for linguistic and cultural developmentally effective practices in early childhood programs and schools. Based on the continual expansion of knowledge about child development, our curriculum is vibrant and addresses emerging issues in the field including infancy and brain research, curriculum design and play, authentic assessment and technology. Students are encouraged to push the boundaries of what is known about early childhood education, as witnessed in our partnership with the Lincoln Center Institute, in which our students explore the relationship between aesthetic education and early childhood educational practices. The program is nationally recognized by the National Association for the Education of Young Children.

Students will enroll in the appropriate course of studies listed below (Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.

**Option (A): 30 credits**

The following program applies to students who hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent. This program leads to a New York State Professional Certificate in Early Childhood Education (birth through grade 2).

**Matriculation requirements**

Applicants must hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate education courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 to be considered for admission.

Students must obtain and file an application form in the program office in addition to the regular college admission form. Interviews may be required.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**

Students must complete 30 credits in the following courses.

Education 705.13T; 706.11T; 709.15T; 750.5T; 719.11T and four courses from the following: 705.11T or 708.11T or 725.11T or 720.11T or 727.11T or 728.11T or 710.11T or 709.11T or 726.11T or 710.13T or 751.1T.

During the first semester, students must file a program of study approved by the program adviser. All courses in the early childhood degree sequence require departmental permission for registration.

Education 707.11T and 719.11T are taken consecutively the last two semesters of the student's program of study.

**Option (B): 33 credits**

The following program applies to students who hold a New York State Initial certificate in Childhood Education (grades 1-6) or its equivalent or a New York State Initial certificate in Special Subjects (all grades) or its equivalent. This program leads to a New York State Professional Certificate in Early Childhood Education (birth through grade 2).

**Matriculation requirements**

Applicants must hold a New York State Initial certificate in Childhood Education (grades 1-6) or its equivalent or a New York State Initial certificate in Special Subjects (all grades) or its equivalent.

Applicants must submit scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate education courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.
Applicants must obtain and file an application form in the program office in addition to the regular college admission form. Interviews may be required.

Students should note additional requirements found at the beginning of this section as well as in the sections "Admission" and "Academic Regulations and Procedures."

**Degree requirements**

Students must complete 33 credits in the following courses.

- Education 705.13T or 706.11T; 705.11T or 708.11T or 725.11T or 751.1T; 720.11T; 727.11T; 728.11T; 710.11T; 709.11T or 709.13T or 709.15T; 710.13T; 764.1T; 707.11T; 719.11T.

During the first semester, students must file a program of study approved by the program adviser. All courses in the early childhood degree sequence require departmental permission for registration.

**Option C: 45 credits**

The following program applies to students who do not hold a New York State Initial certificate in Early Childhood Education or Childhood Education or Special Subjects or equivalent course work and teaching experience, or who are teaching but do not hold initial certification. This program leads to both New York State Initial and Professional Certificates in Early Childhood Education.

**Matriculation requirements**

Applicants must submit scores on the L.A.S.T.

- Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate education courses is required to maintain matriculation.
- International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 before being considered for admission.
- Applicants must obtain and file an application form in the program office in addition to the regular college admission form. Interviews may be required.
- Students should note additional requirements found at the beginning of this section as well as in the sections "Admission" and "Academic Regulations and Procedures."

**Degree requirements**

Students must complete 45 credits in the following courses.

- Education 705.13T; 705.11T; 706.11T; 708.11T or 725.11T or 751.1T; 720.11T; 727.11T; 728.11T; 710.11T; 709.11T or 709.13T or 709.15T; 710.13T; 764.1T; 707.11T; 719.11T.

During the first semester, students must file a program of study approved by the program adviser. All courses in the early childhood degree sequence require departmental permission for registration.

**M.S. in Ed.: Childhood education teacher (grades 1–6)**

**HEGIS code 0802; SED program code: 26826**

Program Head: Sharon Anne O’Connor-Petruso
Program Office: 2105 James Hall
Telephone: 951-5447

The program in childhood education prepares teachers of children in first through sixth grade for initial and/or professional certification in liberal arts, bilingual education, science and environmental education, and mathematics. Through collaborative action, teaching and research, we develop our students' capacities to create socially just, intellectually vital, aesthetically rich, and compassionate communities that value equity and excellence, access and rigor. We design our programs in cooperation with liberal arts and sciences faculties and in conjunction with local schools in order to provide our students with opportunities to develop the knowledge, proficiencies, and understandings needed to work with New York City's racially, ethnically, and linguistically diverse populations. Our program is unique in that our students become highly skilled in content and methodology courses, adept in diversified literacy skills, and have the ability to integrate pragmatic tools of technology, including free and interactive Web 2.0 tools such as blogs, wikis, and podcasts. Our reflective graduates are astutely aware of the digital divide and the need to use sourceware (free software) so that no child is left behind in the information age as well as the need to produce globally competitive students regardless of their socioeconomic status.

**I. Childhood education teacher: liberal arts**

Program Head: Sharon Anne O’Connor-Petruso
Program Office: 2105 James Hall
Telephone: 951-5447

Students will enroll in the appropriate course of studies listed below (Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.

**Option (A): 30 credits**

The following program applies to students who hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent. This program leads to a New York State Professional Certificate in Childhood Education (grades 1–6).

**Matriculation requirements**

Applicants must hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent.

- Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

- Applicants must have a minimum undergraduate grade point average of 3.00 in graduate courses.

Students will enroll in the appropriate course of studies listed below (Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.

**Option (B): 45 credits**

Applications who hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent, may choose to complete 45 credits in the following courses:

- Education 705.13T; 705.11T; 706.11T; 708.11T or 725.11T or 751.1T; 720.11T; 727.11T; 728.11T; 710.11T; 709.11T or 709.13T or 709.15T; 710.13T; 764.1T; 707.11T; 719.11T.

- During the first semester, students must file a program of study approved by the program adviser. All courses in the early childhood degree sequence require departmental permission for registration.
Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements:**
Thirty credits are required for the degree.

Education 700.22T and English 702X or 706.1X or 775.1X or 775.2X.

Education 712.22T and History 720.3X or 741.8X or Political Science 703X or 761X or Puerto Rican and Latino Studies 614X or 770X or Africana Studies 715X or 730X.

Education 713.22T and Mathematics 604.1T or 604.2T or 604.3T or 604.5T or Education 789.10T.

Education 702.22T and one of the following: General Science 603T or 604.1T or 604.3T or 604.4T or 604.5T or Geology 606T or 666T.

Education 703.22T and an elective in education: Education 742.1X or 744T or 798X or 726.1X or a course in teaching students with disabilities with permission of the head of the Program in Teaching Students with Disabilities and the head of the Program in Childhood Education: Liberal Arts.

The following courses are required and it is recommended that they be taken in the following order (see the list above):

Education 700.22T and a course in English; Education 712.22T and a course in history or political science or Puerto Rican and Latino studies or Africana studies; Education 713.22T and a course in mathematics or Education 789.10T; Education 702.22T and a course in general science; Education 703.22T and an approved education elective.

During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence require departmental permission for registration.

**Option (B): 33 credits**
The following program applies to students who hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent or a New York State Initial certificate in Special Subjects (all grades) or its equivalent. This program leads to a New York State Professional Certificate in Childhood Education (grades 1–6).

**Matriculation requirements**
Applicants must hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent or a New York State Initial certificate in Special Subjects (all grades) or its equivalent.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**
Thirty-three credits are required for the degree.

Education 700.22T and English 702X or 706.1X or 775.1X or 775.2X.

Education 712.22T and History 720.3X or 741.8X or Political Science 703X or 761X or Puerto Rican and Latino Studies 614X or 770X or Africana Studies 715X or 730X.

Education 713.22T and Mathematics 604.1T or 604.2T or 604.3T or 604.5T or Education 789.10T.

Education 702.22T and one of the following: General Science 603T or 604.1T or 604.3T or 604.4T or 604.5T or Geology 606T or 666T.

Education 703.22T and an elective in education: Education 742.1X or 798X or 726.1X or a course in teaching students with disabilities with permission of the head of the Program in Teaching Students with Disabilities and the head of the Program in Childhood Education: Liberal Arts.

Education 764.2T.

During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence require departmental permission for registration.

**Option (C): 45 credits**
The following program applies to students who do not hold a New York State Initial certificate in Early Childhood Education or Childhood Education or Special Subjects or equivalent course work and teaching experience, or who are teaching but do not hold initial certification. This program leads to both New York State Initial and Professional Certificates in Childhood Education (grades 1–6).

**Matriculation requirements**
Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”
**Degree requirements**
Forty-five credits are required for the degree.
Education 718.22T, 794X, 763.25T, 763.26T, 792.2X, and 763.23T.
Education 700.22T and English 702X or 706.1X or 775.1X or 775.2X.
Education 712.22T and History 720.3X or 741.8X or Political Science 703X or 761X or Puerto Rican and Latino Studies 614X or 770X or Africana Studies 715X or 730X.
Education 713.22T and Mathematics 604.1T or 604.2T or 604.3T or 604.5T or Education 789.10T.
Education 702.22T and one of the following: General Science 603T or 604.1T or 604.3T or 604.4T or 604.5T or Geology 606T.
Education 703.22T.

During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence require departmental permission for registration.

II. **Childhood education teacher: bilingual education**
Program Head: Alma Rubal-Lopez
Program Office: 3302 James Hall
Telephone: 951-5028

The program in bilingual childhood education prepares students to teach in English monolingual childhood classrooms as well as childhood classrooms where two languages are used as the mediums of instruction (also known as bilingual classrooms). The program consists of a 36-credit course of study and is intended for persons who have attained or are in the process of acquiring New York State Initial certification as a teacher. The course of study includes a 15-credit bilingual extension consisting of courses in bilingualism, research, methodology, and multicultural education and an additional 21-credits of student teaching in the classroom. For those who do not hold any certification as a teacher, an additional 18 credits are required for the degree.

**Matriculation requirements**
This program applies to students who hold a New York State Initial certificate in Childhood Education and wish to attain a Professional Certificate in Childhood Education with an Extension in Bilingual (Spanish/English) Education. This program also applies to students who have a Professional Certificate in Childhood Education and wish to pursue an Extension in Bilingual (Spanish/English) Education. All students who wish to enroll should speak to the Bilingual Program Adviser.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).
Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.

Applicants must submit scores on the New York State Spanish Language Target Test and must submit a written sample in Spanish.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**
Thirty-six credits are required for the degree.

Required courses are listed below; courses marked with an asterisk (*) are bilingual extension courses.
Education 700.22T paired with Education 758.48T*.
Education 712.22T paired with Puerto Rican and Latino Studies 741X*.
Education 713.22T paired with Mathematics 604.1T or 604.2T or 604.3T or 604.5T or Education 789.10T.
Education 702.22T paired with General Science 603T or 604.1T.
Education 703.22T paired with Education 757.48T*.
Education 760.47T* paired with Education 761.47T*.

During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence and in childhood bilingual extension programs require departmental permission for registration.

**Nonmatriculated students**
Students, with a New York State Initial certificate in Childhood Education and/or a New York State Professional Certificate in Childhood Education or their equivalents who wish to complete an extension in bilingual (Spanish/English) education without completing a master's degree in childhood education, may do so as nonmatriculated students. A passing score on the New York State Target Language Test and a written sample in Spanish must first be submitted. Permission from the head of the program in bilingual education is required.

The Bilingual Extension in Childhood Education consists of 15 credits. Required courses, which may be taken in any order, are listed below.
Education 757.48T, 758.48T, 760.47T, and 761.47T; and Puerto Rican and Latino Studies 741X.

All courses in childhood education and in childhood bilingual extension programs require departmental permission for registration.
III. Childhood education teacher: science and environmental education

Program Head: Eleanor Miele
Program Office: 2606 James Hall
Telephone: 951-5061

Students will enroll in the appropriate course of studies listed below (Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.

Option (A): 30 credits
The following program applies to students who hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent. This program leads to a New York State Professional Certificate in Childhood Education (grades 1–6).

Matriculation requirements:
Applicants must hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.)

Applicants must have a minimum undergraduate grade point average of 3.00 and a minimum grade point average of 3.00 in courses required for matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the program head.

A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation. Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

Degree requirements:
Thirty-three credits are required for the degree.

Students must complete the following five courses in the stated sequence: Education 712.25T and General Science 604.3T; Education 713.25T; Education 701.25T; Education 702.25T.

The following courses are also required: Two of the following: General Science 604.1T, 604.4T, 604.5T; Education 784.1X; a course in teaching students with disabilities approved by the head of the Program in Teaching Students with Disabilities; an education or science elective approved by the head of the Program in Childhood Education: Science and Environmental Education.

During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence require departmental approval for registration.

Option (B): 33 credits
The following program applies to students who hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent, a New York State Initial certificate in Middle Childhood Education (grades 5–9) or its equivalent, or a New York State Initial certificate in Special Subjects (all grades) or its equivalent. This program leads to a New York State Professional Certificate in Childhood Education (grades 1–6).

Matriculation requirements:
Students must hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent, a New York State Initial certificate in Middle Childhood Education (grades 5–9) or its equivalent, or a New York State Initial certificate in Special Subjects (all grades) or its equivalent.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

Degree requirements:
Thirty-three credits are required for the degree.

Students must complete the following five courses in the stated sequence: Education 712.25T and General Science 604.3T; Education 713.25T; Education 701.25T; Education 702.25T.

The following courses are also required: Two of the following: General Science 604.1T, 604.4T, 604.5T; Education 764.2X; Education 784.1X; a course in teaching students with disabilities approved by the head of the Program in Teaching Students with Disabilities; an education or science elective approved by the head of the Program in Childhood Education: Science and Environmental Education.

During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence require departmental permission for registration.

Option (C): 45 credits
The following program applies to students who do not hold a New York State Initial certificate in Early Childhood Education or who are teaching but do not hold initial certification. This program leads to both New York State Initial and Professional Certificates in Childhood Education (grades 1–6).
Matriculation requirements
Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).
Applicants must have a minimum undergraduate grade point average of 3.00.
International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.
A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.
Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

Degree requirements
Forty-five credits are required for the degree.
Students must complete the following five courses prior to taking other required courses: Education 718.22T; Education 794X; Education 763.25T; Education 763.26T; Education 763.23T.
Students must complete the following five courses in the stated sequence: Education 712.25T and General Science 604.3T; Education 713.25T; Education 701.25T; Education 702.25T.
Two of the following: General Science 604.1T, 604.4T, 604.5T; Education 792.2X and Education 784.1X; a course in teaching students with disabilities approved by the head of the Program in Teaching Students with Disabilities; an education or science elective approved by the head of the Program in Childhood Education: Science and Environmental Education.
During the first semester, students must file a program of study approved by the program adviser. All courses in the childhood education degree sequence require departmental permission for registration.

IV. Childhood education teacher: mathematics
Program Head: David J. Fuys
Program Office: 2617 James Hall
Telephone: 951-5937
This program leads to the M.S. in education and a New York State Professional Certificate in Childhood Education (grades 1–6) with a specialization in mathematics education.

General matriculation requirements
Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).
Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.
International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

General degree requirements
Thirty to 45 credits are required for the degree depending on applicants’ qualifications.
Students will enroll in the appropriate course of studies listed below (Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.
Students must complete the following education courses in the stated sequence: Education 712.23T, 713.23T, 701.23T, 702.23T. All required education courses and some education electives require permission for registration as indicated in the Schedule of Classes.

Option (A): 30 credits
Matriculation requirements
Applicants must hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent.
Degree requirements:
Thirty credits are required for the degree.
In addition to Education 712.23T, 713.23T, 701.23T, and 702.23T, the following courses are required:
(a) four of the following mathematics courses, or mathematics courses approved by the program adviser: Mathematics 604.1T, 604.2T, 604.3T, 604.4T, 604.5T, 604.6T;
(b) Education 784.1X;
(c) one of the following elective education courses, or an education course approved by the program adviser: Education 725.03T, 726.1X, 726.2T, 742.1X, 744T, 751.2T, 765.1X, 784.1X, 784.2X, 792.2X.

Option (B): 33 credits
Matriculation requirements
Applicants must hold a New York State Initial certificate in Early Childhood Education (birth through grade 2) or its equivalent or a New York State Initial certificate in Middle Childhood Education (generalist, grades 5–9) or its equivalent.
Degree requirements:
Thirty-three credits are required for the degree.
In addition to Education 712.23T, 713.23T, 701.23T, and 702.23T, the following courses are required:
(a) four of the following mathematics courses, or mathematics courses approved by the program adviser: Mathematics 604.1T, 604.2T, 604.3T, 604.4T, 604.5T, 604.6T;
(b) Education 784.1X;
(c) one of the following elective education courses, or an education course approved by the program adviser: Education 725.03T, 726.1X, 726.2T, 742.1X, 744T, 751.2T, 765.1X, 784.1X, 784.2X, 792.2X;
(d) Education 764.2T.
**Option (C): 45 credits**
This option leads to both New York State Initial and Professional Certificates in Childhood Education (grades 1–6) with a specialization in mathematics education.

**Matriculation requirements**
See “General matriculation requirements for Childhood Education: Mathematics, above.

**Degree requirements**
Forty-five credits are required for the degree.

Students must complete Education 712.23T, 713.23T, 701.23T, and 702.23T, the following courses are required:

(a) four of the following mathematics courses, or mathematics courses approved by the program adviser: Mathematics 604.1T, 604.2T, 604.3T, 604.4T, 604.5T, 604.6T;

(b) Education 784.1X;

(c) one of the following elective education courses, or an education course approved by the program adviser: Education 725.03X, 726.1X, 726.2T, 742.1X, 744T, 751.2T, 784.1X, 784.2X, 792.2X.

**M.S. in Ed.: Middle childhood education teacher, mathematics specialist (grades 5–9)**
**HEGIS code 0804.03; SED program code 26723**

Program Head: Mary Chiusano
Program Office: 2416 James Hall
Telephone: 951-5517

This program leads to the M.S. in education and both New York State Initial and Professional Certificates in Middle Childhood Education with a specialization in mathematics (grades 5–9).

**Matriculation requirements**
Applicants must have a minimum undergraduate grade point average of 3.00. Applicants must present 18 credits of mathematics, including two semesters of calculus.

**Degree requirements**
Thirty-three credits are required for the degree.

In addition to Education 712.23T, 713.23T, 701.23T, and 702.23T, the following courses are also required:

(a) four of the following mathematics courses, or mathematics courses approved by the program adviser: Mathematics 604.1T, 604.2T, 604.3T, 604.4T, 604.5T, 604.6T;

(b) Education 784.1X and 765.1X;

(c) Student teaching in grades 7-8 for those with Initial certification in Childhood Education (Education 763.03T and 764.5X), or grades 5-6 for those with Initial certification in Adolescence Education (Education 764.2T).

**Option (B): 33 credits**

**Matriculation requirements**
Applicants must have a minimum undergraduate grade point average of 3.00. Applicants must present 18 credits of mathematics, including two semesters of calculus.

**Degree requirements**
Thirty-three credits are required for the degree.

In addition to Education 712.23T, 713.23T, 701.23T, and 702.23T, the following courses are also required:

(a) four of the following mathematics courses, or mathematics courses approved by the program adviser: Mathematics 604.1T, 604.2T, 604.3T, 604.4T, 604.5T, 604.6T;

(b) Education 784.2X and 765.1X;

(c) Student teaching in grades 7-8 for those with Initial certification in Childhood Education (Education 763.03T and 764.5X), or grades 5-6 for those with Initial certification in Adolescence Education (Education 764.2T).

**Option (C): 47 credits**

This program leads to both New York State Initial and Professional Certificates in Middle Childhood Education with a specialization in mathematics (grades 5–9). Students will enroll in the appropriate course of studies listed below (Option A or B or C) based upon teaching experience, previous course work, and the teaching certificates they hold.

Students must complete the following education courses in the stated sequence: Education 712.23T, 713.23T, 701.23T, 702.23T. All required education courses and some education electives require permission for registration as indicated in the Schedule of Classes.
Matriculation requirements
Applicants must present 18 credits of mathematics, including two semesters of calculus.

Degree requirements
Forty-seven credits are required for the degree.

Students must complete Education 742T, 792.1X, 763.03T, 764.5X, 725.03X, and 763.23T prior to taking other education courses required for the degree. Students must obtain departmental permission to register for these courses.

In addition to Education 712.23T, 713.23T, 701.23T and 702.23T, the following courses are required:
(a) four of the following mathematics courses, or mathematics courses approved by the program adviser: Mathematics 604.4T, 604.6T, 606.01T, 606.1T, 606.2T, 606.3T, 652X;
(b) Education 765.1X, 792.2X.

M.A., middle childhood education science teacher (5–9)
HEGIS code 0804.04; SED program code 26820, 26821
Interdepartmental Coordinator: Eleanor Miele
Program Office: 2416 James Hall
Telephone: 951-5061

General matriculation requirements
Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.). Applicants to sub-program II must submit scores on the Content Specialty Test (CST) in the discipline of specialization.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 to be considered for matriculation.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

General degree requirements
Thirty to 45 credits are required for the degree depending on applicants' qualifications.

Students must complete 15 credits in courses in biology, chemistry, geology, physics, and general science.

The program of study must be approved by the general science coordinator.

Students must complete the following education courses in the stated sequence:
Education 712.25T, 713.25T, 724.04T. All required education courses and some education electives require permission for registration as indicated in the Schedule of Classes.

Each student is evaluated individually based upon prior experiences. Based upon this evaluation and current certification requirements of the New York State Education Department, courses in education or another department may be substituted for required courses with permission of the Coordinator of General Science.

Subprogram I: Middle childhood education generalist with a concentration in general science
This subprogram leads to a Master of Science in Education and a New York State Professional Certificate in Middle Childhood Education Generalist (grades 5–9).

Matriculation requirements for all three options below include 15 credits of science.

Option (A): 30 credits.

Matriculation requirements
Applicants must hold a New York State Initial certificate in Middle Childhood Education (grades 5–9) or its equivalent.

Degree requirements
Thirty credits are required for the degree.

In addition to Education 712.25T, 713.25T, and 724.04T, the following courses are required: 15 credits in graduate courses in: biology, chemistry, physics, geology, and general science; Education 784.2X; one of the following elective education courses, or an elective course approved by the program adviser: Education 716.25T, 726.1X, 726.2T, 763.55T, 742.1X, 744T, 751.2T, 765.1X, 792.2X.

Option (B): 33 credits.

Matriculation requirements
Applicants must hold a New York State Initial certificate in Childhood Education (grades 1-6) or its equivalent or a New York State Initial certificate in Adolescence Education (grades 7-12) or its equivalent.

Degree requirements
Thirty-three credits are required for the degree.

In addition to Education 712.25T, 713.25T, and 724.04T, the following courses are required: 15 credits in graduate courses in: biology, chemistry, physics, geology, and general science; Education 784.2X.

Student teaching in grades 7–8 for those with Initial certification in Childhood Education (Education 764.04T) or grades 5–6 for those with Initial certification in Adolescence Education (Education 764.25T).

Option (C): 45 credits
This program leads to both New York State Initial and Professional Certificates in Middle Childhood Education with a specialization in middle childhood generalist (grades 5–9).

Degree requirements
Forty-five credits are required for the degree.

Students must complete Education 742X, 792.1X, 712.25T, and 713.25T prior to student teaching. Education 764.25T and 764.04T. Students must obtain departmental permission to register for these courses.
In addition to the above, the following courses are required: Education 784.2X, 792.2X, a course in special education, and ED 724.04T, 15 credits in graduate courses in: biology, chemistry, physics, geology, and general science.

Education 712.25T, 713.25T, 724.04T. All required education courses and some education electives require permission for registration as indicated in the Schedule of Classes.

Each student is evaluated individually based upon prior experiences. Based upon this evaluation and current certification requirements of the New York State Education Department, courses in education or another department may be substituted for required courses with permission of the Coordinator of General Science.

Subprogram II: Middle childhood education with a specialization in biology, chemistry, physics, or earth science

This subprogram leads to a Master of Science in Education and a New York State Professional Certificate in Middle Childhood Education with a specialization in biology, chemistry, physics, or earth science (grades 5–9). Matriculation requirements for all three options below include an undergraduate major in biology, chemistry, physics, or geology or the equivalent.

Option (A): 30 credits.

Matriculation requirements
Applicants must hold a New York State Initial certificate in Middle Childhood Education (grades 5–9) or its equivalent.

Degree requirements
Thirty credits are required for the degree.

In addition to Education 712.25T, 713.25T, and 724.04T, the following courses are required: 15 credits in graduate courses in any of the following: biology, chemistry, physics, geology, and general science; Education 784.2X; one of the following elective education courses; or an elective approved by the program adviser. Education 713.23T, 716.25T, 726.1X, 726.2T, 742.1X, 744T, 751.2T, 763.55T, 765.1X, 792.2X.

Option (B): 33 credits.

Matriculation requirements
Applicants must hold a New York State Initial certificate in Childhood Education (grades 1–6) or its equivalent or a New York State Initial certificate in Adolescence Education (grades 7–12) or its equivalent.

Degree requirements
Thirty-three credits are required for the degree.

In addition to Education 712.25T, 713.25T, and 724.04T, the following courses are required: 15 credits in graduate courses in any of the following: biology, chemistry, physics, geology, and general science; Education 784.2X and an elective approved by the program advisor.

Student teaching in grades 7–9 for those with Initial certification in Childhood Education (Education 764.04T) or grades 5–6 for those with Initial certification in Adolescence Education (Education 764.2X).

Option (C): 45 credits

This program leads to both New York State Initial and Professional Certificates in Middle Childhood Education with a specialization in biology, chemistry, physics, or earth science (grades 5–9).

Degree requirements
Forty-five credits are required for the degree.

Students must complete Education 742X, 792.1X, 712.25T, and 713.25T prior to student teaching. Education 764.25T and 764.04T. Students must obtain departmental permission to register for these courses.

In addition to the above, the following courses are required: Education 784.2X, 792.2X, a course in special education, and ED 724.04T, and 15 credits in graduate courses in any of the following: biology, chemistry, physics, geology, and general science.

M.S. in Ed.: Teacher of students with disabilities in early childhood and middle childhood education

Program Head: Pauline Bynoe
Program Office: 1107 James Hall
Telephone: 951-5995

The graduate program in special education prepares candidates to work in schools and other educational settings that serve individuals with disabilities and their families. Three degrees are offered (see the descriptions below). Candidates are provided experiences in varied educational settings that prepare them to work in culturally diverse urban school settings. A range of 30–45 credits is required. The number of credits and their sequence are determined by the candidate’s previous teacher preparation.

I. Teacher of students with disabilities in early childhood education (birth–grade 2)
HEGIS code 0808; SED program code 26726

Matriculation requirements
Applicants must obtain and file an application form in the program office in addition to the regular college admissions form. Applicants are interviewed and must submit three appropriate letters of recommendation.

Applicants must present a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate education courses is required to maintain matriculation. International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 before being considered for admission.

Applicants who do not meet these standards may be considered for admission based on other evidence of high capacity for graduate studies.

Applicants must have successfully completed a New York State Initial Certificate in one of the following New York State approved teacher certification areas: a) early childhood education, b) childhood education, c) middle childhood education.
education, d) adolescence education, e) special subjects, or f) teacher of students with speech and language disabilities, or the equivalent preparation and/or certification.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants are interviewed and required to demonstrate written proficiency in English.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**

Thirty or 33 credits are required for the degree. Students take different education courses and credit options depending on their previous course work, teaching experience, and the certificates they hold.

During the first term students in either option (30 or 33 credits) must file a program of study approved by the head of the Program in Teaching Students with Disabilities in Early Childhood and Childhood Education.

Thirty credit option:

This option is for students holding an Initial Certificate in one of the New York State approved teacher certification areas and an Initial Certificate in Teaching Students with Disabilities.

Students complete 15 credits in the following courses: Education 708.11T, 725.11T, 727.11T, 750.7T, and 703.32T; and 6 credits in elective courses in teaching students with disabilities. The remaining 9 credits consist of Education 728.11T, 710.11T, and 710.13T with permission from the head of the Early Childhood Education Program.

Students are required to complete an independent research project under advisement of a faculty member in Education 703.32T.

Thirty-three credit option:

This option is for students holding an Initial Certificate in one of the New York State approved teacher certification areas, and having had no course work in teaching students with disabilities and no student teaching experience with students with disabilities.

Students must complete 33 credits in the following courses, which should be taken in this order: Education 750.1T and 726.2T, 708.11T and 750.2T, 727.11T and 725.11T, 750.5T and 750.7T, 717.32T and 703.32T, and Education 750.8T, Seminar and Student Teaching: Students with Special Needs.

Students must complete at least 50 hours of supervised field experience and at least 20 days of student teaching (teaching students with disabilities in early childhood). In addition, students must complete a research project under advisement of a faculty member in Education 703.32T.

**II. Teacher of students with disabilities in childhood education (grades 1-6)**

HEGIS code 0808; SED program code 26729

Applicants are admitted to this program in the spring and fall semesters. Applications for the spring semester must be received by November 1 and applications for the fall semester must be received by March 1.

**Matriculation requirements**

Applicants must obtain and file an application form in the program office in addition to the regular college admissions form. Applicants are interviewed and must submit three appropriate letters of recommendation.

Applicants must present a minimum undergraduate grade point average of 3.00. A minimum grade point average of 3.00 in graduate education courses is required to maintain matriculation. International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 before being considered for admission.

Applicants who do not meet these standards may be considered for admission based on other evidence of high capacity for graduate studies.

Applicants must have successfully completed a New York State Initial certificate in one of the following New York State approved teacher certification areas: a) early childhood, b) childhood education, c) middle childhood education, d) adolescence education, e) special subjects or f) teacher of students with speech and language disabilities; or the equivalent preparation and/or certification; or have a baccalaureate degree in a liberal arts and sciences major, or 36 credits in a liberal arts and sciences concentration and demonstrated undergraduate preparation in English, science, mathematics, the social sciences and foreign language or qualify for a New York State Transitional B Certificate as Teacher of Students with Disabilities in Childhood Education.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants are interviewed and required to demonstrate written proficiency in English.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**

Thirty or 33 or 45 credits are required for the degree. Students take different education courses and credit options depending on their previous course work, teaching experience, and the certificates they hold.

During the first term students in either option (30, 33, or 33 to 45 credits) must file a program of study approved by the head of the program in teaching students with disabilities in early childhood and childhood education.
Thirty credit option:
This option is for students holding an initial certificate in one of the New York State approved teacher certification areas and an Initial Certificate in Teaching Students with Disabilities.

Students complete 15 credits in the following courses: Education 750.3T, 750.4T, 750.6T, 750.7T, and 703.33T; and 6 credits in elective courses in teaching students with disabilities. The remaining 9 credits consist of Education 789.10T, 712.22T, and 712.25T or 716.2ST with approval from program heads of the Programs in Childhood Education: Liberal Arts, Childhood Education: Science and Environmental Education, and Childhood Education: Mathematics.

Students are required to complete an independent research project under advisement of a faculty member in Education 703.33T.

Thirty-three to 45 credit option:
This option is for students holding an initial certificate in one of the New York State approved teacher certification areas, and having had no course work in teaching students with disabilities and no student teaching experience with students with disabilities in grades 1-6.

Students must complete 33 credits in the following courses, which should be taken in this order: Education 750.1T and 726.2T; 750.3T and 750.7T; 750.6T and 717.33T; 750.4T and 750.7T; 750.2T and 703.33T; and Education 750.8T, Seminar and Student Teaching: Students with Special Needs.

Students must complete at least 50 hours of supervised field experience and at least 20 days of student teaching (teaching students with disabilities in childhood). In addition, students must complete a research project under advisement of a faculty member in Education 703.33T.

Thirty-three to 45 credit option:
This option is for students who have a baccalaureate degree in a liberal arts and sciences major, or 36 credits in a liberal arts and sciences concentration and demonstrated undergraduate preparation in English, science, mathematics, and the social sciences.

Students must complete 33 credits: Education 750.1T and 726.2T; 750.3T and 750.7T; 750.6T and 717.33T; 750.4T and 750.7T; 750.2T and 703.33T; and 6 credits in elective courses in teaching students with disabilities.

Students complete 15 credits in the following courses: 764.2T, 750.1T, 712.22T, 750.8T, Seminar and Student Teaching: Students with Special Needs.

Students must complete at least 100 hours of supervised field experience and at least 40 days of student teaching. In addition students must complete a research project under advisement of a faculty member in Education 703.33T.

III. Teacher of students with disabilities in middle childhood education generalist (grades 5–9)
HEGIS code 0808; SED program code 31136

Matriculation requirements
Applicants must obtain and file an application form in the program office in addition to the regular college admissions form. Applicants are interviewed and must submit three appropriate letters of recommendation.

Applicants must present a minimum undergraduate scholastic index of 3.00. A minimum scholastic index of 3.00 in graduate education courses is required to maintain matriculation. International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550 before being considered for graduate studies.

Applicants must have successfully completed a New York State initial certificate in one of the following New York State approved teacher certification areas: a) early childhood, b) childhood education, c) middle childhood education, d) adolescence education, e) special subjects or f) teacher of students with speech and language disabilities; or the equivalent preparation and/or certification; or have a baccalaureate degree in a liberal arts and sciences major, or 36 credits in a liberal arts and sciences concentration and demonstrated undergraduate preparation in English, science, mathematics, and the social sciences.

Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.).

Applicants are interviewed and required to demonstrate written proficiency in English.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admissions” and “Academic Regulations and Procedures.”

Degree requirements
Thirty-three or 30 to 45 credits are required for the degree. Students take different education courses and credit options depending on their previous course work, teaching experience, and the certificates they hold.

During the first term students in both options (33 or 30 to 45 credits) must file a program of study approved by the head of the program in teaching students with disabilities.

Thirty-three credit option:
This option is for students holding an initial certificate in one of the New York State approved teacher certification areas, and having had no course work in teaching students with disabilities and no student teaching experience with students with disabilities in grades 5–9.

Students must complete 33 credits: Education 750.1T and 726.2T; 750.3T and 750.7T; 750.6T and 717.33T; 750.4T and 750.7T; 750.2T and 703.33T; and 6 credits in elective courses in teaching students with disabilities.

Students complete 15 credits in the following courses: 764.2T, 750.1T, 712.22T, 750.8T, Seminar and Student Teaching: Education of Middle Childhood and Adolescent Students with Special Needs.

Students must complete at least 50 hours of supervised field experience and at least 20 days of student teaching (teaching students with disabilities in middle childhood). In addition, students must complete a research project under advisement of a faculty member in Education 703.33T.

Thirty to 45 credit option:
This option is for students who have a baccalaureate degree in a liberal arts and sciences major, or 36 credits in a liberal arts and sciences concentration and demonstrated
undergraduate preparation in English, science, mathematics, the social sciences, and foreign language.

Students must complete 30 to 45 credits in the following courses which should be taken in this order: Education 763.01T, 763.02T, 763.03T, 763.04T, 763.1T, 726.2T, 750.2T, 750.3T, 717.33T, 750.5T, 712.33T, 750.7T, 703.33T, 764.22T and Education 750.8T. Seminar and Student Teaching: Students with Special Needs.

Students must complete at least 100 hours of supervised field experience and at least 40 days of student teaching. In addition students must complete a research project under advisement of a faculty member in Education 703.33T.

Advanced Certificate Program in Autism Spectrum Disorders
HEGIS code 0808; SED program code 31638

This advanced certificate interdisciplinary program is designed for individuals who have completed a bachelor's degree in speech-language pathology, special education, or a related discipline, and provides education and practical training in autism spectrum disorders. Coursework and practicum experiences reflect a range of approaches to children on the spectrum, including applied behavioral analysis and developmental social-pragmatic approaches.

Program description
The program provides interdisciplinary foundational and advanced knowledge in the area of autism spectrum disorders incorporating a range of philosophical, educational, and clinical paradigms, including applied behavioral analysis, discrete trials and natural learning paradigms, and developmental social-pragmatic approaches.

Matriculation requirements
Applicants must have completed an undergraduate or graduate degree in special education, speech-language pathology, or a related field. Applicants must present coursework in language acquisition and child development. Additional coursework may be required to meet any matriculation deficiency.

An applicant must have earned a baccalaureate degree with a grade point average of at least 3.00 in the undergraduate major, and a minimum overall grade point average of 3.00.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Advanced certificate requirements (15 credits)

Fifteen credits of coursework completed with a grade point average of 3.00 or better are required for the advanced certificate. No more than one course with a grade below 3.00 may be offered toward the completion of the certificate requirements. Students must complete all of the following courses:

- Speech 717X
- Education 751.3T: An Introduction to Autism Spectrum Disorders
- Education 751.4T: Speech, Language, and Communication Development of Children on the Autistic Spectrum
- Education 718.33T: Special Issues in Education: Classroom and School-wide Learning Environments
- Education 750.4T: Curriculum Modifications for Teaching Students with Special Needs
- Education 750.8T: Seminar and Student Teaching: Students with Special Needs.

M.A., M.S. in Ed.: Adolescence education and special subjects (See appropriate department or below for HEGIS code)

Program Coordinator: Stephen Phillips
(see appropriate department for subject area adviser)
Program Office: 2307 James Hall
Telephone: 951-4800

The School of Education at Brooklyn College offers programs in adolescence education and special subjects leading either to the master of arts or master of science in education degree. The 30-plus credit programs are registered with the New York State Education Department and lead to initial and/or professional teacher certification in the following subjects: art (all grades); biology (grades 7–12); chemistry (grades 7–12); English (grades 7–12); health (all grades); mathematics (grades 7–12); music (all grades); physical education (all grades); physics (7-12); social studies (7-12); modern languages (French, Spanish) (grades 7–12). There are also several master of arts in teaching (M.A.T.) programs that are pending approval.

The School of Education is committed to urban education and serving the needs of our city's teachers. We are proud that almost 80 percent of Brooklyn's high school teachers are graduates of our programs. Our courses are particularly sensitive to the rich diversity of New York's population and we continue to forge links with the borough's schools.

The graduate programs in adolescence education and special subjects are responsive to the needs and experiences of those individuals who have chosen to devote themselves to teaching. Our programs offer experienced and beginning teachers opportunities to develop their classroom practice and to expand their knowledge of their particular discipline and the field of education as a whole. Courses are taught by nationally known scholars who have had experience teaching at elementary and secondary levels. Our programs combine rigorous and rewarding study in each discipline with intensive study of curriculum, pedagogy, and schools.

Graduates of our programs are trained in their specific discipline, in research methodologies, and in the critical analysis of curriculum, pedagogy, school culture, and the sociopolitical dimensions of schooling. The requirements below contain both general and program-specific information about these programs.
See department listings for information about these programs and matriculation requirements.

(Social studies teacher program information is listed directly after this entry.)

**Master's degrees are offered in the following subject areas:**

- **Adolescence Education (grades 7–12)**
  - M.A., biology teacher HEGIS code 0401-01; SED code 26742
  - M.A., chemistry teacher HEGIS code 1905-01; SED code 26766
  - M.A., English teacher HEGIS code 1501-01; SED code 26811
  - M.A., French teacher HEGIS code 1102-01; SED code 26797
  - M.A., mathematics teacher HEGIS code 1701-01; SED code 26734
  - M.A., physics teacher HEGIS code 1902-01; SED code 26762
  - M.A., social studies teacher HEGIS code 2201-01; SED code 26753
  - M.A., Spanish teacher HEGIS code 1105-01; SED code 26800

- **Special Subjects (all grades)**
  - M.A., art teacher HEGIS code 0831; SED code 26751
  - M.S. in Ed., health and nutrition sciences: health teacher HEGIS code 0837; SED code 27318
  - M.A., music teacher HEGIS code 0832; SED code 26816
  - Advanced Certificate, music education HEGIS code 0832; SED code 26817
  - M.S. in Ed., physical education teacher HEGIS code 0835; SED code 26745

**Matriculation requirements**

Applicants must offer (a) or (b) or (c):

(a) New York State Initial certification in Adolescence Education for grades 7–12 in biology, chemistry, English, mathematics, physics, social studies, Spanish, or French or New York State Initial certification in Special Subjects for all grades in art, health, music, physical education, or education of students with speech and language disabilities.

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching the appropriate subject area at appropriate grade levels; 100 hours of fieldwork; 40 days or 300 hours of student teaching at appropriate grade levels, or one year of full-time teaching in the appropriate subject area at appropriate grade levels, and a specified number of credits in the appropriate subject area (see requirements in the appropriate department listing); and submission of scores on the L.A.S.T.;

(c) an undergraduate degree with an appropriate major or appropriate course work in the appropriate subject area, and submission of scores on the Liberal Arts and Science test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission. For the M.A. in teaching English or social studies a passing score of 650 is required.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the department in the appropriate subject area.

Students should note additional requirements found in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**

Thirty to 50 credits are required for the degree.

Students must complete at least 18 credits in the subject area to satisfy degree requirements of the appropriate departments. See the appropriate department listing for these requirements.

Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial certification must complete 9 credits in Group II below, 3 credits in Group III, and at least 18 credits in their subject area of specialization. Students who do not possess Initial certification or equivalent course work and teaching experience or who are teaching but do not possess Initial certification must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III. Students pursuing Initial certification must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III. Students who already have a master's degree but wish Initial certification must take appropriate courses in Group I and Group III, as determined at the time of matriculation by the head of adolescence education and special subjects.

**Group I**

Education 742X, 792.1X, 763.01T–.17T, 764.5T, 723.01T–.17T, 764.51T.
M.A., social studies teacher (7–12)
HEGIS code 2201.01; SED program code 26753

Program Head: Stephen Phillips
Program Office: 2307 James Hall
Telephone: 951-4800

This program leads to New York State Initial or Professional Certification to teach social studies, grades 7–12. The length of the program depends on the individual's prior preparation: 30 credits for an individual entering with less than 21 credits in history and initial teaching certification; 30-45 credits for an individual who does not possess initial certification. Non-degree programs are available which lead to certification for individuals with a prior master's degree and less than 21 credits in history and/or geography. Graduates must hold more than 21 credits in history and/or geography to be recommended for NYS certification. Individuals entering without initial certification spend two terms student teaching— one term in a middle/junior high school; one term in a senior high school. All students should consult with the School of Education for the current requirements.

Matriculation requirements
Students must complete a minimum of 12 credits in courses in the School of Education.

Applicants must offer a distribution approved by the coordinator of at least 21 credits in undergraduate courses in one or more of the following: Economics, History, and Political science, including 15 credits in history.

Applicants must also offer (a) or (b) or (c):
(a) New York State Initial certification in teaching social studies for grades 7–12;
(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching social studies in grades 7–12; 100 hours of fieldwork; 40 days or 300 hours of student teaching of social studies in grades 7–12; and a specified number of credits of social studies in grades 7–12 (see requirements in the appropriate department listing); and submission of scores on the Liberal Arts and Science Test (L.A.S.T.);
(c) an undergraduate degree with an appropriate major or appropriate course work in the appropriate subject areas, and submission of scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the coordinator of social studies.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects in the School of Education for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
A minimum of 30 credits is required for the degree.

Eighteen credits must be chosen from the field of the Social Studies: History, Political Science, Economics. Students must choose at least one course from each of the distribution areas listed below with a minimum of nine credits in history. (Not all courses will run every semester.)

1) Economics: Econ 711, 735; History 730, 744.1
3) European History: History, 721, 723.1, 730, 731.1, 731.3, 731.8, 737, 737.1
4) Global: History 720.3, 751.2, 751.5, 751.7, 753.2, 753.3, 753.4, 753.5, 754.1
Political Science: 761; PO L 765; PO L 772, PO L 778:
5) US History: History, 741.1, 741.2, 741.5, 741.6, 741.8, 743.1, 743.2, 743.3, 743.4, 744.1, 745.2, 745.3; Political Science: 703, 732, 733, 747, 757.

Students must complete a minimum of 12 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial certification must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial certification in teaching social
Students pursuing Initial certification in teaching social studies must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master's degree but wish Initial certification in teaching social studies must take appropriate courses in Group I and Group III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

Group I
Education 742X, 792.1X, 763.02T, 764.5T, 723.02T, 764.51T.

Group II
Education 742.2T, 722.02T, 724.02T.

Group III
Education 716X, 721.02T, 726.1X, 731.3T, 751.2T, 784.2X, 792.2X, 741X, Education 796X/Theater 741X, Education 799.5X.

Students must complete a research project under advisement of a faculty member in Education 724.02T.

The program of study must be approved early in the first semester by the social studies coordinator and the head of adolescence education and special subjects in the School of Education.

Requirements for the Extension in Bilingual (Spanish/English) Education
The New York State Education Department Extension in Bilingual (Spanish/English) Education may be added to base teaching certificates by meeting New York State Education Department criteria that includes the following 15 credits of coursework: Education 757.48T, 758.48T, 760.47T, 761.47T; and Puerto Rican and Latino Studies 741X.

The Extension in Bilingual (Spanish/English) Education can be applied to the following New York State registered programs:

M.S. in Ed. degree programs:
Early childhood education teacher,
HEGIS code 0802; SED program code 26736
Middle childhood education teacher, mathematics;
HEGIS code 0802; SED program code 26723
Literacy teacher,
HEGIS code 0830; SED program code 26906
Teacher of students with disabilities in early childhood, childhood, and middle childhood education, HEGIS code 0808; SED program codes 26726, 26729, and 31136
Health and nutrition sciences, health teacher,
HEGIS code 0837; SED program code 27318
Physical education teacher,
HEGIS code 0835; SED program code 26745
M.S. degree program:
Speech Language Pathology,
HEGIS code 1220; SED program code 77738
M.A. degree programs:
Art teacher,
HEGIS code 0831; SED program code 26751
Biology teacher,
HEGIS code 0401-01; SED program code 26742
Chemistry teacher,
HEGIS code 1905-01; SED program code 26766
English teacher,
HEGIS code 1501-01; SED program code 26811
French teacher,
HEGIS code 1102-01; SED program code 26797
Mathematics teacher,
HEGIS code 1701-01; SED program code 26734
Middle childhood education teacher, general science,
HEGIS code 4902; SED program codes 26820, 26821
Music teacher,
HEGIS code 0832; SED program code 26816
Physics teacher,
HEGIS code 1902-01; SED program code 26762
Social studies teacher,
HEGIS code 2201; SED program code 26754
Spanish teacher,
HEGIS code 1105-01; SED program code 26800
Advanced certificate program:
Music education,
HEGIS code 0832; SED program code 26817

Extension in Gifted Education
The New York State Education Department Extension in Gifted Education may be added to base teaching certificates by meeting New York State Education Department criteria which include the following 12 credits of course work that should be taken in the sequence shown:
Ed 725.1T, Ed 725.2T, Ed 725.3T, and Ed 725T.

The Extension in Gifted Education can be added to all of the following New York State registered programs:

M.S. in Ed. Programs:
Early Childhood Education Teacher
(HEGIS code 0802; SED program code 26736)
Childhood Education Teacher (HEGIS code 0802; SED program code 26826)
Childhood Education Teacher, Bilingual Education (HEGIS code 0802; SED program code 26823)
Middle Childhood Education Teacher, Mathematics (HEGIS code 0802; SED program code 26723)
Literacy teacher (HEGIS code 0830; SED program code 26906)
Teacher of Students with Disabilities in Early Childhood, Childhood, and Middle Childhood Education
M.S. in Ed.: Educational leadership

HEGIS code 0828; SED program codes 29127, 29128

Program Head: David Bloomfield
Program Office: 2205 James Hall
Telephone: 951-5213, 951-5222

This master's degree program prepares students for leadership careers in public and private pre-K–12 education. Students who successfully complete the three-semester, 36-credit program become simultaneously eligible for both the New York State School Building Leader (SBL) and School District Leader (SDL) certificates. The educational leadership program's curriculum is uniquely structured in both scope and sequence to combine small-group, cohort-based colloquiums with content in management and instructional leadership.

Matriculation Requirements

Applicants must obtain and file a program application form in the Graduate Admissions Office in addition to the regular college admission form.

Selection of applicants is based on a faculty committee review of the following requirements, all of which must be satisfied: a master's degree from an accredited institution; a permanent or professional certificate in the classroom teaching service or pupil personnel service or demonstration of the potential for instructional leadership based on prior experiences; evidence of superior scholarship; evidence of a high level of professional vision and effectiveness; and outstanding promise of professional leadership possessing the nine essential characteristics of effective leaders as a result of their prior experiences as attested by records, written references from supervisors, interviews, essay, and/or other sources of evidence the faculty committee may request. As required by Commissioner’s Regulations, the nine characteristics of effective leaders are:

1. leaders know and understand what it means and what it takes to be a leader;
2. leaders have a vision for schools that they constantly share and promote;
3. leaders communicate clearly and effectively;
4. leaders collaborate and cooperate with others;
5. leaders persevere and take the long view;
6. leaders support, develop and nurture staff;
7. leaders hold themselves and others responsible and accountable;
8. leaders never stop learning and honing their skills; and
9. leaders have the courage to take informed risks.

Students should note additional requirements found at the beginning of this section as well as in the sections Admission and Academic Regulations and Procedures.

Degree requirements

A minimum of 36 credits is required for the master's degree. The credits must be completed within three years after admission to the program. Students are required to complete a capstone fieldwork portfolio project under advisement of a faculty member.

Students must complete 36 credits in the following courses:

- Health and Nutrition Sciences, Health Teacher (HEGIS code 0837; SED program code 27318)
- Physical Education Teacher (HEGIS code 0835; SED program code 26745)
- Educational Leadership (HEGIS code 0828; SED program codes 29127, 29128)
- School Counseling (HEGIS code 0826-01; SED program code 01846)
- School Psychologist (HEGIS code 0826-02; SED program code 01798)
- Speech Language Pathology (HEGIS code 1220; SED program code 77738)
- Art Teacher (HEGIS code 0831; SED program code 26751)
- Biology Teacher (HEGIS code 0401-01; SED program code 26742)
- Chemistry Teacher (HEGIS code 1905-01; SED program code 26766)
- English Teacher (HEGIS code 1501-01; SED program code 26811)
- French Teacher (HEGIS code 1102-01; SED program code 26821)
- Mathematics Teacher (HEGIS code 1701-01; SED program code 26797)
- Middle Childhood Education Teacher, General Science (HEGIS code 0804.04; SED program codes 26820 and 26821)
- Music Teacher (HEGIS code 0832; SED program code 26816)
- Physics Teacher (HEGIS code 1902-01; SED program code 26762)
- Social Studies Teacher (HEGIS code 2201; SED program code 26754)
- Spanish Teacher (HEGIS code 1105-01; SED program code 26800)
- Music Education (HEGIS code 0832; SED program code 26817)

This program, as indicated on the Inventory and in the Commissioner's Regulations, leads to the following certificates:

- School Building Leader (HEGIS code 0828; SED program code 26826)
- School District Leader (HEGIS code 0827; SED program code 29127)
- School Counseling (HEGIS code 0826.01; SED program code 01890)
- School Psychologist (HEGIS code 0826.02; SED program code 79597)
Education 770X, 771X, 772.3X, 775.3X, 775.4X, 777.1X, 775.01X, 775.02X, 775.03X, 775.04X, 775.05X, and 775.06X. (Students who have completed a course equivalent to one or more of these courses may, with department permission and consistent with State regulations, substitute another 700-level educational leadership course for each such course.)

M.S. in Ed.: School counseling
HEGIS code 0826.01; SED program code 01846

Program Head: David J. Forbes
Program Office: 2401 James Hall
Telephone: 951-5938, 951-5939

The school counseling program prepares prospective school counselors to work with ethnically and racially diverse populations in New York City public and private schools. Working from a holistic approach, candidates are encouraged to develop the necessary skills for engaging all members of the educational community—parents, administrators, teachers, students, and community organizations—in the process of making schools more responsive, equitable, and caring environments that foster life-long learning and growth. Internships and supervised field experiences are an integral part of our course of study.

The program includes two levels of study: the master of science in education provides graduates with New York State initial certification as school counselors; the advanced certificate in school counseling (described directly after the master’s degree) qualifies candidates with New York State professional certification. A 12-credit specialization in bilingual school counseling is also offered.

Graduates of our program are sought after by public and private schools where they counsel students from kindergarten through twelfth grade.

Matriculation requirements

Applicants must obtain and file the College admission form, including the supplemental School of Education admission form. Applicants must also submit letters of recommendation from individuals familiar with applicants' professional and academic experience. The program invites selected applicants to participate in a group interview and to complete an on-site writing sample.

In addition to the above requirements, applicants for the bilingual specialization in school counseling are interviewed in the language presented for competency.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures.”

Degree requirements

Forty-eight credits are required for the degree. Sixty credits are required for the degree with a specialization in bilingual school counseling.

Students must complete 48 credits in the following courses, which should be taken in this order: Education 735.3X, 724.10X, 724.08T, 724.09T, 701.01X, 724.06T, 729.11T, 724.07T, 701.02T, 734.1T, 715.1T, 701.03T, 736.1T, 756.11T, 756.12T, 701.04T.

Full-time students take four courses each semester, and part-time students take two courses each semester.

The bilingual specialization is a 15-credit sequence, consisting of the following courses: Education 715.1T, 757.48T, 757.49T, 791.11T and either 726.1X or 726.2T. The sequence of the courses will be determined in consultation with the coordinator of the specialization in bilingual school counseling.

Additional requirements for students in the bilingual specialization:

a. all internships in the program must be done in a bilingual setting;

b. passing scores on the English Language Proficiency Assessment for Non-Classroom Personnel (ELPAN), and on the Target Language Proficiency Assessment (TLPA).

After a student completes approximately 12 credits, the faculty members review the student's progress and potential and recommend continuation or withdrawal. This evaluation is based on criteria described in the “Program Statement of Expectations” made available to students when they enter the program.

Students must pass a comprehensive examination. Information about requirements for the comprehensive examination is in the section “Academic Regulations and Procedures.”

Advanced certificate: School counseling
HEGIS code 0826.01; SED program code 01890

Matriculation requirements

Applicants must obtain and file the College admission form, including the supplemental School of Education admission form. Applicants must also submit letters of recommendation from individuals familiar with applicants' professional and academic experience. The program invites selected applicants to participate in a group interview and to complete an on-site writing sample.

Advanced certificate requirements

Twelve credits beyond the master's degree are required for the advanced certificate.

Students must complete the following courses, which should be taken in this order: Education 791.10T, 791.11T, 791.12T, and 791.13T.

A student whose master's degree represents fewer than 48 credits or whose master's degree lacks adequate internship or fieldwork preparation may be required to take Education 724.07T and 701.03T in order to be matriculated into the advanced certificate program.
M.S. in Ed.: School psychologist
HEGIS code 0826.02; SED program code 01998

Program Head: Florence Rubinson
Program Office: 1105 James Hall
Telephone: 951-5876, 951-5877

The school psychologist graduate program consists of a rigorous 60-credit curriculum in theory, research, and evidence-based practice. With a strong background in measurement, psychological theory, and data-based decision making as well as knowledge of effective instructional techniques and psychological interventions, candidates in collaboration with families and school staff are prepared to provide a range of services that positively influence the educational achievement and mental health of all youth. The program strives to meet our urban community's need for highly competent, self-reflective, and compassionate school psychologists. The program is committed to improving the educational experiences of all children in our richly diverse schools and to addressing their mental health needs.

The school psychologist graduate program is registered with the New York State Department of Education, and has full approval from the National Association of School Psychologists (NASP). Our students often collaborate with faculty and have opportunities to build a substantial research portfolio, including publications in nationally-recognized journals in school psychology and presentations at state and national conferences. Our graduates are employed as school psychologists around the country, working in schools, hospitals, academia, and in private practice. Some graduates go on to complete doctorates.

Applicants are admitted to this program only in the fall; applications must be filed by March 1.

Matriculation requirements
Applicants must obtain and file a separate online program application in addition to the regular college application.

Applicants must offer at least 9 credits in experimental or research methods in psychology, statistics in psychology, and educational psychology or developmental psychology.

Applicants must present 3 credits in an education course in reading or literacy.

Applicants must have a minimum undergraduate grade point average of 3.00 (B) and a minimum average of B in courses required for matriculation. Applicants are interviewed and must submit appropriate letters of recommendation. Although not mandatory as a requirement for admission, applicants are encouraged to submit GRE scores (general and/or subject: psychology) as additional evidence to support the application.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the program head.

Students should note additional requirements found at the beginning of this section as well as in the sections “Admission” and “Academic Regulations and Procedures” in the Graduate Bulletin.

Degree requirements
Thirty-three credits are required for the degree.

Students must complete 33 credits selected from the following courses: Education 704.1T, 704.2T, 715T, 715.1T, 721X, 721.1X, 721.3X, 726.5X, 726.6X, 726.7X, 726.8X, 733X, 733.2X, 773X, 721.5X, 726.10X.

The program of study must be approved by the program head.

Students must continuously maintain and graduate with a cumulative grade point average of at least 3.00 (B). A student who acquires 6 credits below C+ cannot be awarded an M.S. in education in this program.

Advanced certificate: School psychologist
HEGIS code 0826.01; SED program code 79597

Program Head: Florence Rubinson
Program Office: 1105 James Hall
Telephone: 951-5876, 951-5877

Applicants are admitted to this program only in the fall; applications must be filed by March 1.

Matriculation requirements
Applicants must present an M.S. in education degree for school psychologist (or the appropriate equivalent) as well as the requirements for the M.S. in education degree for school psychologist. The matriculation process for the bilingual school psychologist specialization will include an interview and demonstrated competence in the target language based on performance on the language proficiency tests administered by the NYS Education Department.

Advanced certificate requirements
Twenty-seven credits (beyond the master’s degree) are required for the advanced certificate; 30 credits including 726.9X are required for the advanced certificate with a specialization in bilingual school psychology.

Students must complete 27 credits selected from the following courses: Education 703T, 703.2T, 704.1T, 704.2T, 721.3X, 721.5X, 723.1X, 723.2X, 726.7X, 726.8X, 733X, and 733.2X.

Students in the bilingual specialization must also complete Education 726.9X.

During the first term, students must file a program of study approved by the program head.

Students must continuously maintain and graduate with a cumulative grade point average of at least 3.00 (B). A student who acquires more than 6 credits below C+ cannot be awarded an advanced certificate in this program.

Completion of the advanced certificate program fulfills requirements for provisional certification as school psychologist by the New York State Education Department. Completion of the bilingual specialization fulfills requirements for the bilingual extension to the certificate.
CUNY Ph.D.

The City University of New York offers a doctoral program in urban education and in educational psychology. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” School of Education courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult with the dean of the School of Education and the executive officer of the doctoral program.

Courses

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

601X Schools and Communities: The Societal Context of Schooling and the Teaching of Social Studies
30 hours lecture, 30 hours laboratory; 3 credits
Examination of the historical, philosophical, social, political, and cultural contexts of schooling and the roles of schools in a multicultural urban setting. Making the insights of history and the social sciences accessible to children through the social studies curriculum. Strategies for promoting active learning of historical and social science knowledge, processes, and understandings in children in grades PreK-6.
Prerequisite: permission of the department.

602X Introduction to Literacy and the Reading/Writing Process
30 hours lecture, 30 hours laboratory; 3 credits
Approaches to teaching reading/writing; perspectives from theories of psycholinguistics; emergent literacy in the pre-school years; methods and materials for teaching reading/writing as integrated processes in grades K-6; integration with content area subjects; adaptation to meet special needs of children; assessment; supervised field experiences with children. (Not open to students who are enrolled in or have completed Education 746T.)
Prerequisite: a course in literature.

603X Teaching Mathematics in the Elementary School
30 hours lecture, 30 hours laboratory; 3 credits
Approaches to teaching mathematics; perspectives from theories of cognitive development; methods and materials for teaching key concepts, skills, and thinking processes in mathematics, grades PreK-6; analysis of curricula; integration of mathematics with other subject areas; adaptation of instruction to meet special needs of students; assessment; supervised field experiences with children.
Prerequisite: Mathematics 1.95 or a 3-credit mathematics course.

604X Models of Teaching Science in the Elementary Classroom
30 hours lecture, 30 hours laboratory, including field experience; 3 credits
Exploration of effective teaching practices in science; analysis of the connections among curriculum, instruction, and assessment of elementary and early childhood science. Science as a way of knowing the world and a tool for problem solving. Examination and evaluation of cognitive and affective foundations of materials from national curriculum projects; methods and materials for teaching key concepts, skills, and thinking processes in science, grades PreK-6. Integration of science with other subject areas; adaptation of instruction and assessment to meet special needs of students. Issues of gender bias in science teaching. Supervised field experience.
Prerequisite: a 3-credit science course.

605X Integrated Teaching Methods and Student Teaching in Elementary and Early Childhood Grades
30 hours seminar, 240 hours student teaching; 6 credits
Instructional methods for integrating the teaching of communication arts, social studies, science, and mathematics in the elementary and early childhood grades. Development and analysis of curricular materials for urban children of varying cultural backgrounds. Application of the principles of teaching to all aspects of the curriculum. Instructor's approval for site and schedule of hours required.
Prerequisite: Completion of methods courses in communication arts, social studies, science, and mathematics.

General science courses

The following courses (General Science 603T, 604.1T, 604.3T, 604.31T, 604.4T, 604.41T, and 604.5T) are creditable toward the M.S. in Ed. degree, Childhood Education Teacher (1-6) Program (HEGIS code 0802) and the M.A. degree, General Science teacher (5-9), (HEGIS code 0804.04).

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

General Science 603T General Science in Childhood and Middle Childhood Education
45 hours plus conference; 3 credits
Content and materials used in science instruction in childhood and middle childhood education. Survey of basic sciences, including methods of inquiry, demonstrations, preparation of individual projects applicable to science education.
Prerequisite: permission of the general science coordinator.

General Science 604.1T Selected Concepts in Physical Science for Childhood and Middle Childhood Teachers
45 hours plus conference; 3 credits
Matter and energy and their interrelationship. Development
of the concepts of force, electricity, magnetism, heat and energy. Application to explanation of phenomena appropriate for elementary and middle school topics. Addresses content and pedagogy. Field trips may be required.

**Prerequisite:** permission of the general science coordinator.

**General Science 604.3T Selected Concepts in Life Science for Childhood and Middle Childhood Teachers**
45 hours plus conference; 3 credits
Selected concepts in life science; adaptations, characteristics and life cycles of plants and animals, microorganisms, habitats, ecosystems, and environments. Methods of inquiry in life science. Addresses content and pedagogy. Field trips will be required.

**Prerequisite:** permission of the general science coordinator.

**General Science 604.31T Field Studies in Life Science for Childhood and Middle Childhood Teachers**
60 hours supervised field work; 3 credits
Place-based field study of selected concepts in Life Science: emphasis on populations, community interactions, evolution, taxonomy, ecosystems and biomes, biogeochemical cycles. Methods of inquiry in field biology. Addresses content and pedagogy. May be repeated for credit with permission.

**Prerequisite:** permission of the general science coordinator.

**General Science 604.4T Selected Concepts in Earth Science for Childhood and Middle Childhood Teachers**
45 hours plus conference; 3 credits
Selected concepts in Earth Science: spaces systems, geologic systems, atmospheric systems, and water systems. Addresses content and pedagogy. Methods of inquiry in Earth science. Field trips will be required.

**Prerequisite:** permission of the general science coordinator.

**General Science 604.41T Field Studies in Earth Science for Childhood and Middle Childhood Teachers**
60 hours supervised fieldwork; 3 credits
Place-based field study of selected concepts in Earth Science: emphasis on geologic systems; processes of mineral and rock formation, characteristics of minerals and rocks, methods of identification and classification, structure of the earth, surface forces, crustal movements, erosional-depositional processes, landscape development, geologic history, interaction between landscape and atmospheric and water systems. Methods of inquiry in field geology. Addresses content and pedagogy. May be repeated for credit with permission.

**Prerequisite:** permission of the general science coordinator.

**General Science 604.5T Selected Concepts in Environmental Science for Childhood and Middle Childhood Teachers**
45 hours plus conference; 3 credits
Air and water pollution, solid waste, and natural resources. Scientific and technological material related to the environment. Methods of inquiry in environmental science. Addresses content and pedagogy. Field trips will be required.

**Prerequisite:** permission of the general science coordinator.

**Education courses continued**

**610X Experiencing Education: Individuals and Communities**
45 hours; 3 credits
Comparative analysis of individual experience and social expectations of schooling and higher education in the United States and other countries; autobiographical, descriptive, and critical accounts; comparative readings in history and philosophy of education; contemporary issues and daily life in schools.

**Prerequisite:** permission of the coordinator for secondary education.

**611X Psychological and Sociological Perspectives on Secondary Educ. and Adolescent Development**
45 hours lecture, 30 hours laboratory; 4 credits
Psychological models of development and learning theories; sociology of education; schooling and distinctive community cultures in the United States; microteaching and community study.

**Prerequisite:** permission of the coordinator for secondary education.

**612X Studies of Curriculum in Secondary Education**
45 hours lecture, 30 hours laboratory; 4 credits
Curriculum issues in middle/secondary schools; interdisciplinary and integrated curricula; planning instructional lessons/units; testing and assessment; methods of teaching in middle schools; microteaching experiences and fieldwork in middle schools.

**Prerequisite or corequisite:** Education 611X.

**613.1X Instructional Methods in Secondary Education**
60 hours; 4 credits
Goals and objectives for teaching in secondary education; planning for instruction; classroom dialogue and questioning; evaluation and assessment; innovative teaching techniques; teaching of students with special needs; subject area curricula.

**Prerequisite:** Education 611X and 612X.

**Corequisite:** Education 613.2X.
613.2X  Student Teaching Practicum  
120 hours laboratory; 3 credits  
Student teaching practicum; students will observe classes, teach lessons, and participate in professional activities in a senior high school under the supervision of the course instructor and a cooperating teacher in the school.  
Prerequisite: Education 611X and 612X.  
Corequisite: Education 613.1X.

665T  Seminar on Teaching Methods of Music Education  
30 hours; 2 credits  
Weekly seminar. Synthesis and application of knowledge and skill in human processes and variations, learning styles and processes, motivation, communication, classroom management, special needs, language acquisition and literacy development, curriculum development, instructional planning and strategies, technology and assessment, and the rights and responsibilities of all involved in the educational process, especially as applied to urban students. Workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention, and safety education.  
Prerequisite: permission of the director of the Conservatory of Music, and the head of Adolescence Education and Special Subjects. Completion of all coursework for the Advanced Certificate in Music Education (Music 651T, 658.1T, 658.2T, 658.3T, three courses from Music 660.1T-666.1X, and Music 720.1X).  
Corequisite: Education 665.1T.

665.1T  Student Teaching  
300 hours; 4 credits  
Supervised teaching of music in schools. Students spend the equivalent of forty days in schools, during which time they engage in daily, supervised student teaching as appropriate to the certificate.  
Prerequisite: Permission of the director of the Conservatory of Music, and the head of Adolescence Education and Special Subjects. Completion of all coursework for the Advanced Certificate in Music Education (Music 651T, 658.1T, 658.2T, 658.3T, three courses from Music 660.1T-666.1X, and Music 720.1X).  
Corequisite: Education 665.1T.

670X  Skillful Teaching: Strategies for Effective Instruction and Classroom Management  
45 hours; 3 credits  
Strategies to assist the in-service teacher in the application of principles of teaching that contribute to student achievement and appropriate student behavior, using the resources of the school and community.  
Corequisite: current employment as a teacher or supervisor in a public or approved private school.

680.1T, 680.2T  Issues and Strategies in Education.  
15 hours each term; 1 credit each term.  
Timely issues, strategies, and techniques of modern educational practice. Course content varies from term to term. This course is not creditable toward the degrees in education.  
Prerequisite: license or certificate to serve as teacher, paraprofessional, or supervisor in a public school or private school setting.  
Corequisite: Education 665.1T.

700.12T  Introduction to Foundations of Literacy Instruction  
45 hours; 3 credits  
Concepts and discourses in educational foundations of literacy. Study of the teacher's role, focus on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and pupil diversity and teacher role. History of literacies, study of literacy instruction and relationship to diverse students; literacy as related to interdisciplinary curriculum. Organizing and teaching of the language arts in the childhood classroom.  
Corequisite: Education 701.12T.

700.22T  Contextualizing Literacy Instruction: Teacher/Learner Interactions  
45 hours; 3 credits  
Contextualizing Literacy Instruction: Teacher/Learner Interactions Concepts and discourses in educational foundations and human development as related to interdisciplinary curriculum; classroom application in childhood education with focus on literacy. Study of the teacher's role and impact upon diverse student learning; organizing and teaching of the language arts in the childhood classroom. Pedagogical implications of literacies.  
Corequisite: English 702X or 706.1X or 775.1X or 775.2X.

701.01X  Human Development  
30 hours plus conference; 3 credits  
Factors relevant to human growth and development. Theories of child, adolescent, and family development and transitions across the life-span in diverse urban school settings. Consideration of social, cultural, and linguistic contexts. Study of gender identity and sexual orientation. Focus on application of life-span developmental theory in school counseling practice for facilitating optimal development for all students. Attention to issues of students with special needs. Required projects in school or community settings.

701.02T  Fundamentals of Qualitative and Quantitative Research  
30 hours plus conference; 3 credits  
Descriptive, experimental, case-study action research and other models of research relevant to counseling and education. Collection and use of data to identify and address issues affecting the quality of education. Planning and implementing...
a research project in school or community settings.
Prerequisite: Education 724.07T.

701.03T Internship I
300 hours; 3 credits
A term of supervised internship in a work setting similar to that in which the student expects to work as a counselor. This course is the first of two required supervised internships in urban school counseling. Counseling interns are required to provide 120 hours of direct counseling/consultation service with clients and 180 hours of indirect collateral service (including staff meetings and on-site supervision) at an approved internship site. Students also participate in weekly group supervision devoted to evaluation of counseling, consultation, advocacy, and leadership drawing on self-report, journals, audio or videotapes of counseling sessions, and selected advanced counseling topics.
Prerequisite: Education 715.1T.

701.04T Internship II
300 hours; 3 credits
Continuation of Education 701.03T. This course is the second of two required supervised internships in urban school counseling. Counseling interns are required to provide 120 hours of direct counseling/consultation service with clients and 180 hours of indirect collateral service (including staff meetings and on-site supervision) at an approved internship site. Students also participate in weekly group supervision devoted to evaluation of counseling, consultation, advocacy, and leadership drawing on self-report, journals, audiotapes of counseling sessions, and selected advanced counseling topics.
Prerequisite: Education 756.12T.

701.12T Introduction to Literacy Research and Technology
45 hours plus conference; 3 credits
Educational research in literacy instruction. Use of educational technology to analyze and assess literacy in urban schools including children with special needs and English language learners.
Corequisite: Education 700.12T.

701.23T Seminar in Applied Theory and Research in Mathematics Education I
45 hours plus conference; 3 credits
Educational research as applied to the analysis of teaching and learning of mathematics. Qualitative and quantitative research. Use of educational research techniques to analyze teaching and learning of mathematics in urban schools. Mathematics vocabulary, reading, and writing in mathematics. Focus on children with special needs and English-language learners. Nature and design of action research in mathematics education. Selection of a research topic and questions, review of related research.
Prerequisite: Education 713.23T.

701.25T Foundations and Analysis of Teaching I
30 hours lecture, 30 hours laboratory; 3 credits
Educational research as applied to analysis of teaching and learning with an emphasis on science and environmental education. Discussion of a range of research methodologies including action research and uses of technology to access and process information in educational research to analyze functioning of teachers in urban schools with children of diverse abilities and backgrounds. Field trips will be required.

701.32T Teaching Young Children with Special Needs
30 hours lecture, 30 hours field experience; 3 credits
Development of competencies needed to teach young children with special needs; formal and informal assessment, goal setting, and integration of theories of learning, the expressive arts and research validated practice into curriculum across a variety of content areas. Field experience in a setting with young children who present difficulties in adjustment and cognition. Focus on reflective practice and on the development of nurturing and stimulating learning environments.

701.33T Collaborative Planning and Teaching Students with Special Needs
30 hours lecture, 30 hours field experience; 3 credits
Development of competencies needed to teach school-aged students with special needs effectively. Integration of theories of learning, the expressive arts and research validated practice into curriculum across a variety of content areas. Field experience in a setting with students who present difficulties in adjustment and cognition. Focus on transition planning, collaborative models for teaching, goal setting, and decision making in culturally appropriate context.

702.12T Seminar in Applied Theory and Research in Literacy I
45 hours plus conference; 3 credits
Advanced concepts of educational research, including design of research proposals and data collection. Application of techniques of research using materials relevant to literacy. Consultation and application in appropriate field settings. Design and implementation of an original research project. It must be continued and completed in 703.12T.
Prerequisite: 21 credits completed in the Graduate Literacy Program.

702.22T Seminar in Applied Theory and Research I
45 hours; 3 credits
Concepts and methods of educational theory and research. Application of techniques of research, with focus on classroom research and its impact on student learning, integrating instruction relevant to science inquiry and research technology. Formulation and development of a preliminary research project relevant to teaching and learning in childhood education.
Corequisite: General Science 603T or 604.1T.
702.23T Seminar in Applied Theory and Research in Mathematics Education II
45 hours plus conference; 3 credits
Continuation of Education 701.23T. Techniques for analyzing qualitative and quantitative data. Design, implementation, and reporting a research project. Current issues in mathematics education. Professional leadership in mathematics education. Prerequisite: Education 701.23T.

702.25T Seminar in Applied Theory and Research: Science and Environmental Education
30 hours lecture, 30 hours laboratory; 3 credits
Advanced concepts of educational research, including research study design and utilization of results of research. Application of techniques of research, using materials relevant to science and environmental education. Consultation and application in appropriate field settings. Design and implementation of an original research project. Field trips will be required.

703T Research Seminar in School Psychology
45 hours plus conference; 3 credits
Introduction to research design in school psychology. Quantitative and qualitative methods are studied by surveying representative articles in the literature. Critical perspectives on social science research. Students formulate and discuss a research design. Prerequisite: matriculation in the school psychologist program, a course in statistics and a course in experimental psychology or research methods, 12 credits in the school psychologist program, permission of the program head.

703.12T Seminar in Applied Theory and Research in Literacy II
45 hours plus conference; 3 credits
Continuation of Education 702.12T. Prerequisite: 24 credits completed in the Graduate Literacy Program.

703.2X Applied Theory and Research Seminar in School Psychology
45 hours plus conference; 3 credits
Continuation of the study of educational research and methodology and completion of an independent research project related to an area of school psychology. Prerequisites: Education 703T, matriculation in the school psychologist program, and permission of the program head.

703.22T Seminar in Applied Theory and Research II
45 hours; 3 credits
Continuation of Education 702.22T. Implementation of research project relevant to teaching and learning in the childhood education classroom; focus upon current pedagogical inquiry, educational research, and innovative practices related to effective teaching, including issues of technology in education, English language learners and students with special needs. Prerequisite: Education 702.22T.

703.33T Seminar in Applied Theory and Research
45 hours seminar, plus conference; 3 credits
Continuation of the study of educational research and methodology and completion of an independent research project related to an area of special education. Prerequisite: Education 750.7T.

704.1T Practicum in School Psychology I
15 hours plus 100 hours supervised fieldwork; 2 credits
Supervised experience in the role and functions of the school psychologist with culturally diverse students, groups, and colleagues. Prerequisite: matriculation in the school psychologist program and permission of the program head. Corequisite: Education 733X.

704.2T Practicum in School Psychology II
15 hours plus 100 hours supervised fieldwork; 2 credits
Supervised experience in the role and functions of the school psychologist with culturally diverse children, groups, colleagues, and families in educational and/or clinical settings. Prerequisite: matriculation in the school psychologist program, Education 704.1T, 726.6X, 721X, and permission of the program head. Corequisite: Education 733.2X, Education 721.3X.

705.11T Seminar in Principles, Practices, and Environments in Early Childhood Education
45 hours; 3 credits
Analysis of case studies, relevant research, classroom interactions, and environments as related to early childhood teacher practice with culturally and linguistically diverse young children, including children with special needs. Selected current issues in classroom organization and design for children from birth through the second grade. Other topics derived from students' classroom experience. Development of a reflective approach to teaching; individualized instruction, organizing for effective support, guidance of learning, and planning.

705.13T Child Development in Social, Cultural, and Educational Contexts
30 hours plus conference; 3 credits
Advanced seminar that focuses on childhood development from birth through grade two. Childrearing and early education in diverse cultural contexts, with a focus on urban settings. Theoretical approaches to understanding child development; parental ethnotheories about the structuring of everyday social and educational experiences for the acquisition of culture-specific social and cognitive skills in young children, including English language learners and children with special needs. Culture and early childhood education practice from a comparative perspective; teacher-child and peer relationships; educational policies.
706.11T Social, Historical, and Philosophical Construction of Early Childhood Education
45 hours; 3 credits
Interdisciplinary analysis of the construction of early childhood education; impact of political, economic, social, cultural, and technological changes on the discourse of early childhood studies and the field of early childhood education. Changing views of children in various cultural contexts; curricular, pedagogic, and policy implications; comparative studies of early childhood education in a global context, with special emphasis on urban settings.

707.11T Introduction to Research in Early Childhood Education
45 hours plus conference; 3 credits
Principles and methods and problems in the development of formal and informal research in early childhood education with emphasis on research in classroom settings. Development of observation and recording methodologies emphasizing the role of teacher as researcher. Scope and variety of educational research; principles and characteristics of qualitative and quantitative research; structure and organization of a research project. Review of research literature related to current themes and issues in education.

708.2T Supervised Laboratory and Field Experience
30 hours seminar, 60 hours laboratory and directed independent activity; 4 credits
Consideration of specific aspects of human behavior in a variety of work or community settings. Observation and discussion of behavior. Preparation of materials.
Prerequisite: matriculation in the guidance and counseling program and Education 709.1T and 724.3T and permission of the program head.
Corequisite: Education 709.2T.

708.11T Environments for Young Children with Special Developmental and Learning Needs
45 hours; 3 credits
An examination of disabilities in young children and their effect upon development and learning. Implications for the educative environment. Development of social interaction skills and positive behavior supports for all young children, including English language learners. Role of families and educators in creating learning environments at home and in educational settings; interagency collaboration.
Prerequisite: Education 705.13T or 706.11T or permission of the program head.

709.11T Imagination, the Arts, and Multidisciplinary Learning
45 hours; 3 credits
Multidisciplinary curriculum through the creative arts. The creative process; experiential approach to the study of works of art in music, dance, theater, and the visual arts. Integrating the arts with other curriculum areas for all children, including English language learners and children with special needs. A global perspective that draws upon diverse cultures. Based on the collaborative work between the Lincoln Center Institute for the Arts in Education and the School of Education. Lincoln Center Institute for the Arts in Education practice and other approaches to aesthetic education and learning. Guest teachers/artists.
Prerequisite: Education 705.13T or 706.11T.

709.13T Visual Arts in Early Childhood Education
30 hours plus conference; 3 credits
Pedagogical approaches to integrating the visual arts in early childhood curriculum. Analysis and application of theory and research to the teaching of the visual arts for all young children, birth through grade two, including culturally and linguistically diverse children, as well as children with special needs. Philosophies and goals of visual arts education, particularly as they apply to diverse, urban communities. Artistic development in early childhood within varied social, cultural, and environmental contexts. Role of materials and experience as they apply to artistic learning in young children. Work with a variety of artistic forms and media, field trips.
Prerequisite: 705.11T or 706.11T.

709.15T Play in Cross-cultural Contexts
30 hours plus conference; 3 credits
Theories and research findings on young children's play in culturally and linguistically diverse early childhood, family, and community settings. Implications of play for the intellectual, social, emotional, and physical development of all children, including children with special needs, from infancy through the early childhood years. Play in the early childhood curriculum; role of the teacher in facilitating children's play.

710T Internship Seminar in Educational Administration
30 hours seminar plus conference; 3 credits
Weekly seminar to analyze practical problems related to the student's concurrent internship.
Prerequisite: Education 771X, 772.3X, 775.1X, 775.2X; matriculation in the educational administration and supervision program and permission of the program head.
Corequisite: Education 778.1T.
**Prerequisite:** Education 705.13T or 706.11T; Education 44.1

Education or its equivalent will complete the field experience in their own early childhood classrooms; students who do not possess a New York State Initial certificate in Early Childhood Education or its equivalent may complete the field experience under the direct supervision of a certified teacher.

**Prerequisite:** Education 705.13T or 706.11T; Education 44.1 or equivalent or examination or portfolio or approval of the program head.

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**710.11T Mathematics in Early Childhood**

30 hours, 30 hours supervised field experience; 3 credits

Study of early childhood curriculum and instruction in mathematics for all young children, including English language learners and children with special needs. Topics include mathematical content; development of cognitive processes; selection and use of instructional resources; interdisciplinary and thematic teaching; family involvement; assessment options and the appropriate use of technological tools. Students who possess a New York State Initial certificate in Early Childhood Education or its equivalent may complete the field experience in their own early childhood classrooms; students who do not possess a New York State Initial certificate in Early Childhood Education or its equivalent will complete the field experience under the direct supervision of a certified teacher.

**Prerequisite:** Education 705.13T or 706.11T; Education 44.1 or equivalent or examination or portfolio or approval of the program head.

**710.13T Scientific Inquiry in Early Childhood Education**

30 hours, 30 hours supervised field experience; 3 credits

Approaches to nurturing curiosity in children, from infancy through the early childhood years. Development of educational environments to promote scientific curiosity and playful exploration in young children, including English language learners and children with special needs. Integration of science in the early childhood curriculum; exploration of natural environments; creative representation of science learning. Family involvement in science education; familiarity with technologies and community resources. Students who possess a New York State Initial certificate in Early Childhood Education or its equivalent may complete the field experience in their own early childhood classrooms; students who do not possess a New York State Initial certificate or its equivalent will complete the field experience under the direct supervision of a certified teacher.

**Prerequisite:** 705.13T or 706.11T.

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**711.3T Historic Innovations in Educational Method and Curriculum**

30 hours plus independent work; 3 credits

Critical study of major historical developments in educational method and curriculum. Conditions and motivations that relate to curriculum change and development of method.

**Prerequisite:** a master's degree or matriculation in a teacher education program; and Education 711T or the equivalent.

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**712.22T Advanced Study of Pedagogy and Curriculum in Childhood Education I**

45 hours; 3 credits

Development, application, and implementation of curriculum based upon the theories and research findings studied and discussed in childhood education. Focus on advanced techniques of pedagogical practice, including aesthetic education, assessment and use of technology in childhood education, and the development of interdisciplinary curriculum in democratically modeled classrooms. Emphasis on integrating the social sciences into the social studies curriculum.

**Corequisite:** an approved course in the social sciences.

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**712.23T Childhood Mathematics Education: Advanced Methodology and Practice**

45 hours plus conference; 3 credits


**Prerequisite:** two of the following mathematics courses: 604.1T, 604.2T, 604.3T, 604.4T, 605.5T, 605.6T, or mathematics courses approved by the program adviser.

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**712.25T Methodology in Childhood Science and Environmental Teaching and Learning I**

45 hours plus 15 hours conference and fieldwork; 3 credits

Implementation, adaptation, and assessment in practice of research validated science curricula for childhood education. Emphasis on life and environmental science. Approaches to integrating science in teaching and learning language arts, humanities and social sciences; children's science and environmental literature; development of oral and written communication skills in the context of childhood science inquiry. Adapting pedagogy to the needs of English language learners and students with diverse learning styles. Examination of environmental ethics and issues. Field trips will be required.

**Corequisite:** General Science 604.3T.
712.33T Instructional Strategies for Students with Special Needs
45 hours; 3 credits
Instructional strategies to teach middle school and high school aged students with special needs. Educational and assistive technology and research supporting its use. Understanding and using curriculum based assessment data for strategy selection and instruction. Focus on inquiry processes across content areas, including the expressive arts. Work in a setting with students with special needs.

713.12T Methods and Practicum in Literacy, Grades 3 to 6
30 hours; 30 hours supervised field; 3 credits
Development, application, and implementation of literacy strategies with children of diverse abilities. Development of curriculum materials based on the theories and research findings discussed in the area of literacy from grades 3 to 6. Presentation of supervised case study in formal setting.
Prerequisite: Education 700.12T and 701.12T.

713.22T Advanced Study of Pedagogy and Curriculum in Childhood Education II
45 hours; 3 credits
Continuation of Education 712.22T. Development, application, and implementation of curriculum based on the theories and research findings in childhood education. Advanced pedagogical practice and interdisciplinary curriculum development; focus on learning and teaching mathematics in childhood education, including use of technology; English language learners and students with special needs; national, state, and local curriculum standards and guidelines.
Corequisite: an approved course in mathematics or Education 789.10T.

713.23T Middle Childhood Education: Advanced Methodology and Interdisciplinary Approaches
45 hours plus conference; 3 credits
Continuation of Education 712.23T. Emphasis on teaching and learning involving fractions, decimals, and percents, measurement/geometry, probability, and data interpretation. Interdisciplinary approaches involving mathematics and science, social studies, and literacy. Writing and assessment in mathematics. Diagnostic techniques, and adaptations of materials and methods for special needs learners. Introduction to research paradigms in mathematics education.
Prerequisite: Education 712.23T.

713.25T Methodology in Childhood Science and Environmental Teaching and Learning II
45 hours plus 15 hours conference and fieldwork; 3 credits
Continuation of Education 712.25. Methods of integrating science with math and technology in childhood education with an emphasis on physical and earth science. Developing quantitative and critical thinking skills. Design and assessment of inquiry- and problem-based curriculum integrating mathematics. Adapting methods to the needs of students with disabilities, and students with diverse learning styles. Purposes and types of student assessment. Field trips will be required.
Prerequisite: Education 712.25T.

714.25 Methodology in Middle Childhood and Adolescence Science Teaching I
45 hours plus conference, 15 hours field experience; 3 credits
Implementation, adaptation, and assessment in practice of research validated science curricula for middle childhood with an emphasis on the life and environmental sciences. Approaches to integrating language arts and social sciences in teaching and learning science; development of reading, oral and written communication skills in the sciences. Adapting pedagogy to the needs of English language learners and students with diverse learning styles. Examination of environmental ethics and issues. Field trips will be required.
Prerequisite: matriculation in middle childhood science education.

715T Problems and Practices in School Psychology
30 hours plus conference; 3 credits
History and foundations of school psychology. Role of the school psychologist as related to curriculum, school administration, evaluation, and other issues. Educational policies and their effects on urban, multicultural schools. Ethical, professional and legal standards.
Prerequisite: matriculation in the school psychologist program, and permission of the program head.

715.1T Multicultural Counseling and Consultation in Schools
45 hours; 3 credits
Clinical skills necessary for pupil personnel services providers to work effectively with multilingual and culturally diverse populations. This experience-based course will develop awareness of cultural, linguistic, and ethnic factors that influence and shape behavior and development. Personal history, literature, and films will be analyzed in the contexts of acculturation and identity. Current research and theoretical and applied knowledge in this field will be reviewed. Students will integrate theoretical and applied knowledge in written assignments and presentations.
Prerequisite: Education 733X or 724.1T or equivalent.

715.25T Methodology in Middle Childhood and Adolescent Science Teaching II
45 hours plus conference, 15 hours field experience; 3 credits
Continuation of Education 714.25T. Methods of integrating science with math and technology in the middle school with an emphasis on physical and earth science. Developing quantitative and critical thinking skills. Design and assessment of inquiry- and problem-based curriculum integrating quantitative reasoning. Adapting methods to the needs of students with disabilities, and students with diverse learning styles. Purposes and types of student assessment. Field trips will be required.
Prerequisite: Education 714.25T.
**Prerequisite:** Education 706T or the equivalent.

Analysis and use of community resources for Emphasis on problems of nationalism, ethnocentrism, and materials in developing bases for international understanding.

**30 hours plus independent work and conference; 3 credits**

**School Curricula**

**717X International Dimensions in American School Curricula**

30 hours plus independent work and conference; 3 credits

Analysis of curriculum practices and teaching methods in selected countries. Innovations, experiments, and other aspects of special interest. Evaluation of foreign educational research. Trends in the international coordination of school curricula.

**716.12T Topics in Literacy Education Current Literacy Issues**

45 hours lecture; 3 credits

Relationships of selected factors within family, school, and society as they influence the learner's growth in literacy. Developing the teacher's ability to respond to the talents, needs, and abilities of the learner by structuring appropriate literacy environments from birth to grade 6. Study of recent literacy research including English language learning and children with special needs.

Prerequisite or corequisite: Education 700.12T and 701.12T.

**716.25T Science Instruction Beyond the Classroom**

30 hours lecture, 30 hours field; 3 credits

Designing appropriate learning environments for science in classrooms, schoolyards, and at such nonformal science settings as museums, parks, botanical gardens, and environmental centers. Field experience at nonformal science institutions. Implications for pedagogy and curriculum development.

**716.33T Collaboration with Families**

45 hours lecture; 3 credits

Issues of disability as it affects the family unit; development of teacher competence in applying appropriate collaborative approaches and strategies, utilizing community resources, and improving communication in culturally and linguistically diverse contexts. Critical exploration of research.

**717X International Dimensions in American School Curricula**

30 hours plus independent work and conference; 3 credits

Analysis of curriculum practices and teaching methods in selected countries. Innovations, experiments, and other aspects of special interest. Evaluation of foreign educational research. Trends in the international coordination of school curricula.

**Prerequisite:** Education 706T or the equivalent.

**717.12T Literacy Education: Communication**

45 hours lecture; 3 credits

Analysis of recent research findings in language acquisition and in the development and use of verbal and nonverbal communication skills from birth to grade 6. The influence of group membership and cultural pluralism on the development of these skills with special attention to the bi-dialectal child and the English language learner. Analysis of the implications for literacy education, with emphasis on media literacy and new literacies.

Prerequisites: Education 700.12T and 701.12T.

**717.33T Special Issues in Education: Communication and School-aged Students with Special Needs**

30 hours lecture plus conference; 3 credits

Study of language acquisition including childhood bilingualism and speech, hearing, and communication problems of students with disabilities. Understanding the distinction between language disorders and language acquisition problems. Techniques of nonverbal communication including the unique aspects of artistic representation. Assistive technology for enhancing communication and access to general education curriculum; influence of group membership and culture on development of communication skills. Implications for collaboration with professionals, diverse families, and community organizations. Field experiences.

**718.22T Social Discourses in Education: Integrating Social Sciences in Childhood Education**

45 hours plus conference, 30 hours field experience; 3 credits

Implications for education of educational, social, historical, and political factors influencing urban schooling and exploration of the role of schools in a multicultural society. Consideration of the implications of the social and cultural contexts of integrating social sciences and humanities into the curriculum. Approaches to teaching, including English language learners and students with special needs. Analysis of recent research in social studies curricula, technology and education, and citizenship education.

**718.32T Special Issues in Education: Learning Environments**

45 hours lecture; 3 credits

Implementation of supportive and enriched learning environments that influence the development of the young child with special needs. Focus on emerging trends and current research. Examination of the influence of the expressive arts and play on the development of young children with special needs from birth through early childhood.

**718.33T Special Issues in Education: Classroom and School-wide Learning Environments for Students with Low Incidence Disabilities**

30 hours plus conference; 3 credits

Current issues in teaching students with severe and multiple disabilities, including autism spectrum disorders. Focus on emerging trends and research. Validated approaches in curriculum, instruction, life skills, functional behavioral assessment, and positive behavioral supports. Examination of the politics of labeling the constructs of disability and the influence of school culture on inclusion, transenvironmental planning, and the development of least restrictive environments. Independent and small group study.
719T Learning Theory and the Education Process
45 hours; 3 credits
Critical exposition, in light of recent research, of present developments in learning theory and their import for education. Examination of the psychological approach to such representative educational problems as drill, rewards, punishment, meaning, organization, motivation, programmed learning.
Prerequisite: a course in educational psychology and a course in child or adolescent psychology and a course in an additional area of psychology.

719.1T Education and Theories of Mind
30 hours plus independent work; 3 credits
Logic of learning (believing, knowing, thinking, understanding). Analysis of the concept of learning in educational theory and practice. Implications of the philosophy of mind for the evaluation of teaching and learning.
Prerequisite: a master's degree or matriculation in a teacher education program; and Education 731T or the equivalent.

719.4T Programmed Instruction
30 hours plus conference and independent work; 3 credits
Critical evaluation of the theories underlying programmed instruction. Examination of research findings concerning the effectiveness of teaching machines, programmed texts, and related devices. Practice in the preparation of programmed materials.
Prerequisite: a course in educational psychology or the psychology of learning.

719.11T Independent Project and Research Seminar
45 hours plus conference; 3 credits
A study of research methods, data analysis, and the dissemination of results. Development and completion of an independent project related to an area of early childhood education. The submission of a bound copy of the study is required.
Prerequisite: Education 707.11T.

719.12T Literacy Skills, Instructional Strategies, and Assessment
45 hours; 3 credits
Approaches to assess and improve students' literacy abilities through the use of records, interviews, observations, portfolios, and formal and informal assessments. Procedures for the selection, administration, and evaluation of test materials. Study of illustrative case studies including English language learners and students with special needs. (Not open to students who have completed 715.12T, 718.12T and 745.1T.)
Prerequisites: Education 700.12T and 701.12T.

720X Cognitive and Intellectual Development
45 hours; 3 credits
Critical exposition, in light of recent research, of developments in the fields of cognitive and intellectual development. Examination of the psychological bases for such representative educational issues as readiness, grouping, learning to learn, curriculum structure, transfer and concept learning.
Prerequisite: a course in educational psychology and a course in child or adolescent development.

720.1X The Use and Interpretation of Intelligence, Diagnostic, and Aptitude Tests
30 hours lecture plus independent projects and conferences; 3 credits
Evaluation of tests commonly used for measurement of intelligence, personality, achievement, individual interests, and special aptitudes. Study of procedures for construction, selection, and interpretation of standardized testing materials and of computer-referenced testing are considered in relation to needs of members of the class. Class and individual student projects appropriate to subject specialization of students.
Prerequisite or corequisite: a course in student teaching.

720.2X Measurement and Evaluation in Teaching
30 hours lecture plus independent projects and conferences; 3 credits
Applied course designed for teachers, and subject and curriculum specialists. Participants plan, develop, try out, and evaluate procedures for assessing student performance. Procedures covered include criterion-referenced tests, formative and summative evaluation techniques, evaluation through the curriculum, and applications of microcomputers to classroom assessment. Class and individual projects appropriate to subject specialization of students.

720.11T Language Learning and Development in Young Children
45 hours; 3 credits
The structure, acquisition, and development of language and oral and written communication in young children, including English language learners and children with special needs. Language and communication development within the context of children's development; role of family, community and culture. Study of linguistic structures, including phonological, syntactic and semantic development. Creating language- and text-rich environments for young children.
Prerequisite: Education 705.13T or 706.11T.

720.12T Administration of Literacy Programs
45 hours; 3 credits
Theory and practice of the leadership role of literacy/reading specialists in school and community literacy programs. Techniques for successful exercise of leadership in developing goals, providing professional development, working with families and communities, and implementing literacy programs.
Prerequisite: 21 credits completed in the Graduate Literacy Program.
721X **Cognitive and Academic Assessment II**
45 hours plus 30 hours conference; 4 credits
Theories and research findings regarding children who have difficulty learning in school. Diagnosis, etiology and interventions for children with learning difficulties. Evaluation and interpretation of assessment and contextual factors in learning difficulties.
Prerequisite: matriculation in the school psychologist program, Education 726.6X with a grade of B- or better, and permission of the program head.

721.1X **Theories of Human Development**
30 hours plus conference; 3 credits
Contemporary theories of child development. Biological, behavioral, social and cultural approaches to the study of human development in multicultural contexts. Dimensions of human identity including race, ethnicity, culture, sex and gender.
Prerequisite: matriculation in the school psychologist program, permission of the program head.

721.2X **Personality Theory and Research**
30 hours plus conference; 3 credits
Contributions to the understanding of child development and personality including trait theory, psychoanalysis, behaviorism, and humanism. Other contemporary theoretical models and contemporary developments.
Prerequisite: matriculation in the school psychologist program, Education 721.1X and permission of the program head.

721.3X **Consultation in the Schools**
30 hours plus 30 hours conference; 3 credits
School-based consultation, with emphasis on a variety of models; acquisition of clinical skills; theoretical bases; exploration of skills and attitudes necessary for working with culturally diverse groups; application of consulting knowledge and skills in both laboratory and field situations; exploration of recent developments, trends, and research in consultation.
Prerequisite: matriculation in the school psychologist program, Education 721.1X and 726.4X, and permission of the program head. Corequisite: Education 704.2T.

721.4X **Psychology of Learning Difficulties II**
30 hours lecture, 30 hours laboratory; 3 credits
Theories and research on emotional, genetic, and familial factors that inhibit the child's learning. Diagnosis, etiology, and remediation of these disorders. Two hours of lecture and two hours of supervised fieldwork each week. Consultation with parents and professional personnel.
Prerequisite: matriculation in the school psychologist program and Education 721X and permission of the program head.

721.5X **Neuropsychology of Learning**
30 hours plus conference; 3 credits
This course is designed to review the neurophysiological and neuropsychological bases of behavior as it pertains to developmental disorders. Students will identify functional neuroanatomy, neuroimaging techniques, medications, and various neurological and neuropsychological disorders.
Students will apply findings and research to contemporary problems and issues facing school psychologists.
Prerequisite: matriculation in the school psychologist program and permission of the program head.

721.01T **Critical Issues in Education: Social Values and Individual Needs: English**
30 hours lecture, 30 hours laboratory; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

721.02T **Critical Issues in Education: Social Values and Individual Needs: Social Studies**
30 hours lecture, 30 hours laboratory; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

721.03T **Critical Issues in Education: Social Values and Individual Needs: Mathematics**
30 hours lecture, 30 hours laboratory; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

721.04T **Critical Issues in Education: Social Values and Individual Needs: Science**
30 hours lecture, 30 hours laboratory; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.
teacher and student diversity and teacher role. Exploratory research techniques.

721.11T Critical Issues in Education: Social Values and Individual Needs: Modern Languages
30 hours lecture, 30 hours laboratory; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

721.13T Critical Issues in Education: Social Values and Individual Needs: Physical Education
30 hours lecture, 30 hours laboratory; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

721.16T Critical Issues in Education: Social Values and Individual Needs: Health and Nutrition
30 hours lecture, 30 hours field experience; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

721.17T Critical Issues in Education: Social Values and Individual Needs: Art
30 hours lecture, 30 hours field experience; 3 credits
Systematic study of the teacher's role, focusing on interactions of people and environments in an educational setting. Topics in educational foundations provide concepts for examining teacher and student diversity and teacher role. Exploratory research techniques.

Adolescence education and special subjects

Courses 722.01T–722.17T are intended for students pursuing programs in adolescence education or special subjects.

Students take the course appropriate to their area.

.01 English
.02 Social studies
.03 Mathematics
.04 Science
.11 Modern languages
.13 Physical education
.16 Health science
.17 Art

722.01 Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: English
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in English to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the discipline and implications for teaching.
Prerequisite: initial certification or Education 742X, 792.1X, 763.01T, 764.5T, 723.01T, and 764.51T or equivalents.
Prerequisite or corequisite: Education 742.2T.

722.02T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Social Studies
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in social studies to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the discipline and implications for teaching.
Prerequisite: initial certification or Education 742X, 792.1X, 763.02T, 764.5T, 723.02T, and 764.51T or equivalents.
Prerequisite or corequisite: Education 742.2X.

722.03T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Mathematics
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in mathematics to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the discipline and implications for teaching.
Prerequisite: initial certification or Education 742X, 792.1X, 763.03T, 764.5T, 723.03T, and 764.51T or equivalents.
Prerequisite or corequisite: Education 742.2T.
722.04T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Science
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in science to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the science disciplines and implications for teaching.
Prerequisite: Initial certification or Education 742X, 792.1X, 763.04T, 764.5T, 723.04T, and 764.51T or equivalents. Prerequisite or corequisite: Education 742.2T.

722.11T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Modern Languages
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in the language to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the language and implications for teaching.
Prerequisite: Initial certification or Education 742X, 792.1X, 763.11T, 764.5T, 723.11T, and 764.51T or equivalents. Prerequisite or corequisite: Education 742.2T.

722.13T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Physical Education
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in physical education to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the discipline and implications for teaching.
Prerequisite: Initial certification or Education 742X, 792.1X, 763.13T, 764.5T, 723.13T, and 764.51T or equivalents. Prerequisite or corequisite: Education 742.2T.

722.16T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Health and Nutrition Sciences
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in health and nutrition sciences to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the discipline and implications for teaching.
Prerequisite: Initial certification or Education 742X, 792.1X, 763.16T, 764.5T, 723.16T, and 764.51T or equivalents. Prerequisite or corequisite: Education 742.2T.

722.17T Advanced Seminar in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Art
45 hours seminar, plus conference; 3 credits
Expansion of the student's knowledge and skills in art to develop individual approaches to effective teaching in different classroom situations. Improving teaching methods through review of relevant research, reflection on self-as-teacher, analysis of classroom interactions, discourse, and effective teaching and learning environments. Introduction to methods of educational research. Analysis of modes of communication in the classroom. Examination of the specialized discourses of the discipline and implications for teaching.
Prerequisite: Initial certification or Education 742X, 792.1X, 763.17T, 764.5T, 723.17T, and 764.51T or equivalents. Prerequisite or corequisite: Education 742.2T.

723X Practicum in School Psychology
60 hours; 4 credits
Supervised experience in the educational and clinical functions of the school psychologist as a mental health consultant to school personnel and families. Students study urban, multicultural schools and deal with a wide range of typical functions of the school psychologist. Policies and procedures regulating professional practices in schools.
Prerequisite: matriculation in the school psychologist program and Education 715T, and permission of the program head.

723.1X Internship in School Psychology I
600 hours supervised fieldwork, plus 15 hours supervision on campus; 3 credits
Supervised experience in the clinical and educational functions of the school psychologist in diverse settings. Field experience provides context for supervised integration of previously acquired competencies and professional approaches to the functions of school psychology.
Prerequisite: matriculation in the school psychologist program, Education 715T and 723X, and permission of the program head.
723.2X Internship in School Psychology II
600 hours supervised fieldwork plus 15 hours supervision on campus; 3 credits
Supervised experience in the clinical functions of the school psychologist in diverse settings. Field experience provides context for supervised integration of previously acquired competencies and professional approaches to the functions of school psychology.
Prerequisite: Education 71ST and 723.1X.

Adolescence education and special subjects
Courses 723.01T-723.17T are intended for students pursuing programs in adolescence education or special subjects.
Students take the course appropriate to their area.

- 01 English
- 02 Social studies
- 03 Mathematics
- 04 Science
- 11 Modern languages
- 13 Physical education
- 16 Health science
- 17 Art

723.01T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: English
45 hours, plus conference; 3 credits
Advanced theories and methods of teaching English at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in English; teaching English to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the English curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.01T and 764.5T.
Corequisite: 764.51T.

723.02T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Mathematics
45 hours, plus conference; 3 credits
Advanced theories and methods of teaching mathematics at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in mathematics; teaching mathematics to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the mathematics curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.02T and 764.5T.
Corequisite: 764.51T.

723.03T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Science
45 hours, plus conference; 3 credits
Advanced theories and methods of teaching science at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in science; teaching science to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the science curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.03T and 764.5T.
Corequisite: 764.51T.

723.04T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Social Studies
45 hours; 3 credits
Advanced theories and methods of teaching social studies at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in social studies; teaching social studies to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the social studies curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.04T and 764.5T.
Corequisite: 764.51T.
723.11T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education
Modern Languages
45 hours, plus conference; 3 credits
Advanced theories and methods of teaching modern languages at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in modern languages; teaching modern languages to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the modern language curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.11T and 764.5T.
Corequisite: 764.51T.

723.13T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Physical Education
45 hours, plus conference; 2 credits
Advanced theories and methods of teaching physical education at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in physical education; teaching physical education to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the physical education curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.13T and 764.5T.
Corequisite: 764.51T.

723.17T Seminar II in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Art
45 hours, plus conference; 3 credits
Advanced theories and methods of teaching art at grade levels appropriate for New York State certification requirements; focus on developing reflective practitioners and research based instruction; analysis of New York State Learning Standards in art; teaching art to all students, including students with special needs and English language learners; integrating technology into the classroom; developing, implementing, and evaluating the art curriculum in urban classrooms. Students enroll in workshops in identifying, reporting, and responding to child abuse and in substance abuse, fire and arson prevention and safety education.
Prerequisite: 742X, 792.1X and permission of the chairperson of the major department and the head of Adolescence Education and Special Subjects.
Prerequisite or corequisite: 763.17T and 764.5T.
Corequisite: 764.51T.

724X Group Process and School Culture
45 hours plus 30 hours conference; 4 credits
Group processes in the school and classroom affecting the learning, behavior, and mental health of pupils. Role of the school psychologist in analyzing behavior in school context and effecting change. Working with groups in crisis intervention. Confronting and reducing bias in schools and classrooms. Experience in participating in and studying a group.
Prerequisite: matriculation in the school psychologist program, Education 721.1X, 721.2X, 733X, and 726.4X, and permission of the program head. Corequisite: Education 704.2T.

724.2T Advanced Human Development I
30 hours lecture, 60 hours laboratory and directed independent activity; 4 credits
Theories of emotional and intellectual development from birth through young adulthood. Introduction to anthropological, developmental, psychoanalytic, field, and social psychological theories. Cognitive sequences necessary for intellectual development and effects of socialization experiences.
Prerequisite: matriculation in the guidance and counseling program and Education 724.1T and permission of the program head. Corequisite: Education 712.2T.
724.3T Advanced Human Development II
30 hours lecture, 60 hours laboratory and directed independent activity; 4 credits
Relation of theories of development to the function of the counselor on the job. Effect of institutions on individual development. Relationship of theories of career development and decision making to general theories of human development.
Prerequisite: matriculation in the guidance and counseling program and Education 756.3T and permission of the program head.
Corequisite: Education 709.1T.

Adolescence education and special subjects
Courses 724.01T–724.17T are intended for students pursuing programs in adolescence education or special subjects.
Students take the course appropriate to their area.
.01 English
.02 Social studies
.03 Mathematics
.04 Science
.11 Modern languages
.13 Physical education
.16 Health science
.17 Art

724.01T Seminar in Educational Research: English
45 hours seminar, plus conference; 3 credits
Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching English. Formulation, development, and realization of an original research project relevant to teaching and learning English.
Prerequisite: Completion of all program conditions and Education 742.2T, 722.01T, and 3 credits of an approved elective course.

724.02T Seminar in Educational Research: Social Studies
45 hours seminar plus conference; 3 credits
Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching social studies. Formulation, development, and realization of an original research project relevant to teaching and learning social studies.
Prerequisite: Completion of all program conditions and Education 742.2T, 722.01T, and 3 credits of an approved elective course.

724.03T Seminar in Educational Research: Mathematics
45 hours seminar, plus conference; 3 credits
Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching mathematics. Formulation, development, and realization of an original research project relevant to teaching and learning mathematics.
Prerequisite: Completion of all program conditions and Education 742.2T, 722.02T, and 3 credits of an approved elective course.

724.04T Seminar in Educational Research: Science
45 hours seminar, plus conference; 3 credits
Advanced concepts of educational research compared and contrasted with modes of inquiry in the science disciplines; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching the sciences. Formulation, development, and realization of an original research project relevant to teaching and learning science.
Prerequisite: Completion of all program conditions and Education 742.2T, 722.04T, and 3 credits of an approved elective course or 6 credits in middle childhood education and permission of the Coordinator of General Science.

724.11T Seminar in Educational Research: Modern Languages
45 hours seminar, plus conference; 3 credits
Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching modern languages. Formulation, development, and realization of an original research project relevant to teaching and learning modern languages.
Prerequisite: Completion of all program conditions and Education 742.2T, 722.11T, and 3 credits of an approved elective course.

724.13T Seminar in Educational Research: Physical Education
45 hours seminar, plus conference; 3 credits
Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching physical education. Formulation, development, and realization of an original research project relevant to teaching and learning physical education.
Prerequisite: Completion of all program conditions and Education 742.2T, 722.13T, and 3 credits of an approved elective course.
**724.16T Seminar in Educational Research: Health and Nutrition Sciences**

45 hours seminar, plus conference; 3 credits

Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching health and nutrition sciences. Formulation, development, and realization of an original research project relevant to teaching and learning health and nutrition sciences.

Prerequisite: Completion of all program conditions and Education 742.2T, 722.16T, and 3 credits of an approved elective course.

**724.17T Seminar in Educational Research: Art**

45 hours seminar, plus conference; 3 credits

Advanced concepts of educational research compared and contrasted with modes of inquiry in the disciplines; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching art. Formulation, development, and realization of an original research project relevant to teaching and learning art.

Prerequisite: Completion of all program conditions and Education 742.2T, 722.17T, and 3 credits of an approved elective course.

**724.06T Individual Counseling Skills**

30 hours lecture, 30 hours laboratory; 3 credits

Introductory course in counseling skills development designed to increase the qualities of self-awareness and mindfulness. Approaches to intervention. Exploration of specific methods and procedures of individual appraisal. Lecture, demonstration, written assignments, videotape analysis and group practice.

Prerequisite: Education 701.01X

**724.07T Group Practicum**

30 hours lecture/supervision, 100 hours practicum; 3 credits

Planned program of supervised fieldwork in a setting similar to that in which the student expects to work. Application of leadership and group theory to groups in schools. Students lead, co-lead or consult to groups and/or workshops in school settings; didactic presentations on conflict resolution, classroom dynamics, school leadership teams and other relevant topics; triadic and small group supervision. Forty hours of direct counseling/consultation services, 60 hours of collateral services with students and families required at this site.

Prerequisite: Education 729.11T.

**724.08T Schools and Communities**

30 hours plus conference; 3 credits

Interdisciplinary study of relations between schools and communities. Required projects in school or community settings.

Prerequisite: Education 724.10X.

**724.09T Counseling Theories**

30 hours plus conference; 3 credits

Critical and comprehensive investigation of counseling theories and practices for school counselors working with diverse children and adolescents in school settings. Consideration of issues and strategies important to work with English language learners and students with special needs.

Prerequisite: identified in degree requirements for the M.S. in Education program in School Counseling.

**724.10X Leadership and Group Dynamics: Theory and Practice**

30 hours lecture, 30 hours laboratory plus conference; 3 credits

Social processes in groups and their impact on individual behavior. Lecture/discussion and membership in an experiential group designed to provide opportunities for learning about group dynamics through an examination of power, authority, leadership, intergroup and interpersonal processes. Application of learning to the practice of effective group leadership and membership in schools.

Prerequisite: Education 735.3X.

**724.11T Seminar in Educational Research: Modern Languages**

45 hours seminar, plus conference; 3 credits

Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching modern languages. Formulation, development, and realization of an original research project relevant to teaching and learning modern languages.

Prerequisite: Completion of all program conditions and Education 742.2T, 722.11T, and 3 credits of an approved elective course.

**724.13T Seminar in Educational Research: Physical Education**

45 hours seminar, plus conference; 3 credits

Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching physical education. Formulation, development, and realization of an original research project relevant to teaching and learning physical education.

Prerequisite: Completion of all program conditions and Education 742.2T, 722.13T, and 3 credits of an approved elective course.
**724.16T Seminar in Educational Research: Health and Nutrition Sciences**

45 hours seminar, plus conference; 3 credits

Advanced concepts of educational research compared and contrasted with modes of inquiry in the discipline; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching health and nutrition sciences. Formulation, development, and realization of an original research project relevant to teaching and learning health and nutrition sciences.

Prerequisite: Completion of all program conditions and Education 742.17T, 722.17T, and 3 credits of an approved elective course.

**724.17T Seminar in Educational Research: Art**

45 hours seminar, plus conference; 3 credits

Advanced concepts of educational research compared and contrasted with modes of inquiry in the disciplines; emphasis on qualitative and quantitative research methods and possible uses of research. Analysis of research relevant to teaching art. Formulation, development, and realization of an original research project relevant to teaching and learning art.

Prerequisite: Completion of all program conditions and Education 742.17T, 722.17T, and 3 credits of an approved elective course.

**725.1T Students with Special Needs: Gifted Education**

30 hours plus conference; 3 credits

Investigation of the developmental nature, causes, and characteristics of diverse gifted and talented students. Implications for classroom teachers and other professionals in areas of interpersonal interactions, collaboration, and instruction. Focus on historical, social, and legal foundations of gifted education. Theories of learning and development. Influence of gender, class, language, race/ethnicity, disabilities, and sexuality on the construction of giftedness, as interpreted within and across cultures. 10 hours of field experience in a variety of schools and classroom settings.

**725.2T Assessment of Diverse Gifted and Talented Students**

30 hours plus conference; 3 credits

Critical review of formal and informal assessments of the cognitive, social, and affective characteristics of diverse gifted and talented students, including gifted and talented students with special needs. Cultural, linguistic, and societal factors involved in identification, placement, and the academic performance of diverse gifted and talented students. Implications for classroom settings, teaching, and collaboration with parents and other professionals. 10 hours of field experience in a variety of school and classroom settings.

**725.3T Curriculum Design for Diverse Gifted and Talented Students**

30 hours plus conference; 3 credits

Principles, rationale, and research-validated methods for differentiating curriculum and instruction for diverse gifted and talented students, including gifted and talented students with disabilities. Inquiry processes across all content areas. Use of technology for differentiation of instruction. Approaches to the design, management, and evaluation of learning environments across a variety of settings. Collaboration with other professionals. Focus on the New York State Learning Standards and educational experiences of students from diverse cultural and linguistic backgrounds. 20 hours of field experience in a variety of schools and classroom settings.

**725.11T Curriculum Modifications for Young Children with Special Needs**

45 hours; 3 credits

Special programs, modification of curriculum in the content areas, life skills, teaching strategies and approaches designed to meet the individual and group needs of culturally and linguistically diverse young children with special needs including giftedness, across the developmental spectrum in early education settings. Focus on family, community, and interagency partnerships; appropriate use of technology; multiple assessment strategies. Field experiences in a variety of schools and community settings.

Prerequisite: Education 705.13T or 706.11T or permission of the program head.
726X Mental Hygiene and Behavior Problems
45 hours; 3 credits
Contributions of mental hygiene to understanding dynamics of behavior. Dynamic aspects of personality development. Typical behavior problems in school, home, and community. Clinical methods in diagnosing and treating personality difficulties. Study and evaluation of typical case materials. Teacher's role in dealing with behavior problems. (Not open to students who have completed Education 726.3X.)
Prerequisite: a course or courses in learning, evaluation, and mental health.

726.1X Children and Youth with Special Needs
45 hours; 3 credits
Characteristics of children with special needs including giftedness. Implications for the classroom environment regarding assessment, curriculum, management, integrations and support of students with special needs in general education settings. Review of legislations and landmark court cases in special education. Focus on collaboration with other professionals including co-teaching, consultative and itinerant models. Engagement of family members in collaborative efforts. Field experiences in schools and a variety of community settings.

726.2T Teaching in Least Restrictive Environments
30 hours plus conference; 3 credits
Strategies to integrate and support students with special needs in least restrictive environments. System and organizational change theories and strategies for developing models of inclusive education. Focus on curriculum and collaborative processes with other professionals including co-teaching, consultative, and itinerant models. Engagement of family members in collaborative efforts. Students will implement a consultative/collaborative project. Field experiences in a variety of school and community settings.

726.4X Problems of Child and Adolescent Development I
30 hours plus independent work, and conference; 3 credits
Typical and atypical development of children and adolescents in urban and multicultural contexts, including physiological, neurological, orthopedic, health and sensory challenges, traumatic brain injury and cognitive impairments. Intensive study of illustrative and case material. Biological, psychological, sociological, cultural, and linguistic influences. Assistive technologies and other interventions.
Prerequisite: matriculation in the school psychologist program and permission of the program head.

726.5X Developmental Psychopathology
30 hours plus conference; 3 credits
Patterns of adjustment and maladjustment to school environments including behavior disorders, attention deficits, truancy and addictions. Focus on observation, functional behavioral assessment and contextually relevant intervention approaches. Intensive study of illustrative and case material.
Prerequisite: matriculation in the school psychologist program and permission of the program head.

726.6X Cognitive and Academic Assessment
45 hours plus 30 hours conference; 4 credits
Assessment of cognitive abilities, aptitude, and achievement. Administration, scoring and interpretation of standardized and clinical procedures through lecture and laboratory work. Integration of data from assessment with other sources to produce effective educational recommendations. Critical perspectives on psycho-educational assessment including limitations of contemporary instruments, potential adverse effects of assessment policies, and alternative procedures.
Prerequisite: matriculation in the school psychologist program, a course in statistics, and permission of the program head.

726.7X Social and Adaptive Behavioral Assessment
45 hours plus 30 hours conference; 4 credits
Administration, scoring, and interpretation of measures of adaptive behavior and personality. Representative projective techniques, objective personality and behavior assessments, and adaptive behavior measures are introduced and administered. Research findings and critiques pertaining to the most commonly used personality and adaptive behavioral assessments are discussed throughout. Field-based assignments are required.
Prerequisite: matriculation in the school psychologist program, Education 726.6X with a grade of B- or better, and permission of the program head.

726.8X Integration of Assessment and Report Writing
30 hours lecture plus 30 hours conference; 3 credits
Interpretation and integration of findings from evaluations, including cognitive, achievement (both standardized and curriculum-based), personality and behavioral assessment. Report writing and formulation of IEP goals are stressed. Field-based assignments are required.
Prerequisite: matriculation in the school psychologist program, Education 726.6X with a grade of B- or better, Education 726.7X and permission of the program head.

726.9X Psychological Assessment of Diverse Students
45 hours; 3 credits
Psychoeducational assessment of English language learners and culturally diverse children and adolescents. Approaches to nonbiased assessment, including testing in the child's native language, bilingual testing, adaptation of standardized instruments and techniques, and dynamic assessment. Students will administer psychoeducational assessment batteries to language-minority individuals, interpret test data, and write reports. Field-based assignments.
Prerequisite: matriculation in the school psychologist program and Education 726.6X and 726.7X, and permission of the program head.

726.10X Behavioral Assessment and Intervention
30 hours plus conference; 3 credits
This course is designed to provide students with knowledge and understanding of behavioral assessment and intervention strategies. Students will learn and review the fundamentals of human learning according to behavioral and learning theorists. Students will then apply principles of learning to the classroom, for assessment, intervention, and evaluation purposes. This course prepares students to use collaborative problem solving in the application of behavioral techniques.
Prerequisite: matriculation in the school psychologist program and permission of the program head.

726.11T Administration and Supervision of Early Childhood Education Programs
45 hours; 3 credits
Approaches to administration and supervision of early childhood settings for children birth through grade two, including children with special needs and children who are English language learners. Culturally and developmentally appropriate practice in programs for young children; curriculum development; program development and evaluation. Public policies and regulations; organizational theory; development and supervision of personnel; management of facilities; finances. Informal and formal assessment of children; communication with and involvement of families and caregivers; community relations; interagency collaboration.

726.12T Teaching Literacy in Middle and Secondary Schools
45 hours lecture; 3 credits
Critical examination of contemporary literacy theories. Methods of teaching current innovative practices aligned with the standards in the language arts curriculum and in content areas. Techniques for developing integrated interdisciplinary units. (Not open to students who have completed 716.12T.)
Prerequisites: Education 700.12T and 701.12T.
Corequisite: Education 726.12T.

727T Childhood and Adolescence in the Urban Community
30 hours plus independent work; 3 credits
Cultural, social, and economic composition of urban communities. Effects of social background on attitudes, behavior, and learning. Implication for guidance, especially in large urban areas. Fieldwork.

727.11T Literacy Curriculum in Early Childhood
30 hours plus conference, 30 hours supervised field experience; 3 credits
Theoretical and methodological approaches to fostering literacy in young children, including English language learners and children with special needs. Study of relationships between speaking, reading, and writing. Research on teaching literacy. Development of literacy through literature and the arts. Role of family, community, and culture in young children's literacy learning. Formal and informal assessment. Students who possess a New York State Initial certificate in Early Childhood Education or its equivalent may complete the field experience in their own early childhood classrooms; students who do not possess a New York State Initial certificate in Early Childhood Education or its equivalent will complete the field experience under the direct supervision of a certified teacher.
Prerequisite: Education 705.13T or 706.11T.

727.12T Language Structure and Development in the Middle and Secondary School and Their Relationship to Literacy
45 hours lecture; 3 credits
Analysis of recent research findings in the development and use of verbal and nonverbal communication skills. A study of the structure of the English language with particular attention to concept development and figurative language. Study of the effects of dialect, second language learning, and language disabilities on the reading, writing, speaking, and listening skills of students in grades 5 through 12. (Not open to students who have completed 717.12T.)
Prerequisites: Education 700.12T and 701.12T.
Corequisite: Education 726.12T.

728.11T Literacy Curriculum in Early Childhood
30 hours; 30 hours supervised field experience; 3 credits
Approaches to integrating parents, families, and communities into educational environments and curriculum for young children, including children with special needs and children who are English language learners. Teaching social studies to young children beginning with study of the family and community, and leading to study of larger social, political and historical frameworks. Focus on culturally and linguistically diverse urban settings. Students who possess a New York State Initial certificate in Early Childhood Education or its equivalent may complete the field experience in their own early childhood classrooms; students who do not possess a New York State Initial certificate in Early Childhood Education or its equivalent will complete the field experience under the direct supervision of a certified teacher.
Prerequisite: Education 705.13 or 706.11.
729.11 Educational and Psychological Assessment
30 hours plus conference; 3 credits
Critical and historical perspectives on the nature and uses of assessment in schools; portfolios, standardized tests, inventories, case studies, and observations; sociometrics relevant to counseling and appraisal in schools. Consideration of strategies for assessing students with special needs, with attention to the cultural, linguistic, and societal factors involved in their identification, placement, and academic and behavioral performance. Required projects in school or community settings.
Prerequisite: identified in degree requirements in the M.S. in Education program in School Counseling.

733X Theory and Practice of Prevention, Crisis Intervention, and Mental Health Counseling in Schools
45 hours; 3 credits
Approaches to the practice of prevention, crisis intervention, and mental health counseling in schools. Counseling functions and other mental health practices of the school psychologist. Field-based experiences are required.
Prerequisite: matriculation in and completion of 15 credits in the school psychologist program and permission of the program head. Corequisite: Education 704.1T.

732.1T Contemporary Thought and Education
30 hours plus independent work; 3 credits
Original source materials are used to develop a philosophical perspective characteristic of the twentieth-century mind that bears on educational theory and practice.
Prerequisite: a master's degree or matriculation in a teacher education program; and Education 711T or 731T or 741X or the equivalent.

731.3T Education and Ethics
30 hours plus conference; 3 credits
Ethical problems in locating and justifying educational values; in determining the nature, source, and limits of the school's moral authority; and in influencing the child's sense of values, moral outlook, and ways of judging. Exploration of the ethics of teaching. Use of literature, drama, the visual arts, and theories of ethics and moral development to explore the ethics of teaching, character education, and moral education.

732.12T Practicum in Meeting the Literacy Needs of Students in Middle Schools
30 hours lecture, 30 hours laboratory; 3 credits
Development, application, and implementation of literacy strategies based on theories and research findings. Supervised practice with selected learners in grades 5 through 8. (Not open to students who have completed Education 712.12T or 713.12T.)
Prerequisites: Education 726.12T and 727.12T. Corequisite: Education 719.12T.

734T Sexism in American Education
45 hours; 3 credits
Nonsexist child rearing; sex stereotyping and personal development; child-rearing practices; societal attitudes toward men and women; the role of the media and linguistic sexism. The schools and sex roles; "Hidden Curriculum"; courses, books, materials and toys, resources for nonsexist education. Nonsexist career preparation and educational leadership; creating options, nonsexist counseling; role of community centers and women's groups; anatomy of change; legislation; feminist studies for men and women.

742X Perspectives on Education: Teaching Children and Adolescents in Cultural Context
45 hours seminar, plus conference, 20 hours field experience; 3 credits
An introduction to the philosophy, psychology, sociology, culture, and history of educating all children and adolescents. Development of children and adolescents in different cultures within American society in relation to existing value systems, with emphasis on the manner in which biological and psychological factors are interpreted in accordance with prevailing values. Focus on relationship between theory and practice. Opportunities through class discussion, portfolio preparation, and field experience for reflection on oneself as teacher, interactions between school and community, teachers' roles, and issues of diversity and social justice.
742.1X Multicultural Education  
45 hours; 3 credits  
Examines diverse cultures, in the broadest sense (race, class, ethnicity, language, and gender), that constitute American society. Similarities and differences of various cultures in the context of education. Examination of curriculum bulletins, textbooks, and journals. Development of materials for use in classrooms.

742.2T Diversity and the Inclusive Classroom  
45 hours; 3 credits  
Examines the relationships between social identities and curriculum, teaching and the institution of school. Focuses on developing inclusive classrooms and addressing the needs of diverse student populations. Examination of curriculum, textbooks, and journals. Consideration of recent work on identity formation, multicultural education, anti-bias education, and institutional processes of labeling students. Development of materials and teaching methods for the inclusive classroom.

742.3 Diverse Classrooms in a Visual Culture  
45 hours plus 20 hours of field experience; 3 credits  
Critical examination of the needs of contemporary students in a society dominated by visual images. Pedagogical strategies for analyzing visual messages in terms of diversity, plurality, and the impact of visual culture on curriculum and teaching. Discussion of the impact of images and artifacts from a variety of visual traditions on classroom interactions, personal identity formation, and learning. 

Prerequisite: matriculation in the M.A. degree program, Art Teacher.

744T Moral Development and Moral Education  
45 hours; 3 credits  
Cognitive development and moral development; perspective taking; social development and delinquency; moral development and guidance; presocial behavior: altruism, caring, kindness; fostering moral growth in classrooms: science, literature, social studies; children's rights and moral education.

745.1T Diagnosis and Correction of Reading Difficulties  
45 hours; 3 credits  

Prerequisite or corequisite: Employment or certification as a teacher and Education 746T or its equivalent.

746T Principles and Emerging Practices in Reading Instruction in the Elementary School  
30 hours plus independent reading and fieldwork; 3 credits  
Study and assessment of current research and experimentation in reading instruction. New developments in principles of learning, compilation and use of materials, group and individual work, the use of programmed materials and self-instructional devices, and techniques of teaching and evaluation. Appraisal of representative experimental programs.  

Prerequisite: Education 763.4T or the equivalent; and two years of teaching and permission of the reading program head.

750.1T Students with Special Needs  
30 hours plus conference; 3 credits  
Investigation of the developmental nature, causes, and characteristics of young children and students with special needs including giftedness. Implications for classroom teachers and other professionals in areas of interpersonal interactions, interagency collaboration, and instruction. Focus on historical, social and legal foundations of special education and the politics of special education. Theories of learning and development. Influence of gender, class, language, sexuality, and race/ethnicity on the construction of disability, as interpreted within and across cultures. Field experiences in schools and a variety of community settings.

750.2T The Family and Community of Students with Special Needs  
30 hours plus conference; 3 credits  
Analysis of the issues for the family and the child with special needs within diverse family systems. Teacher-parent, parent-child, sibling-child relations, collaboration, and community resources for young children and school-aged students. Focus on life cycle from birth through adulthood. Emphasis on urban, linguistic, and cultural perspectives, resource access, and development of parent-community partnerships. Field experiences in school settings and a variety of community settings.

750.3T Learning Environments for Students with Special Needs  
45 hours; 3 credits  
Approaches to the design, management, and evaluation of optimal learning environments. Review of methods, including behavior management, crisis intervention, group process, positive social interaction skills, and peer mediation. Case studies in diverse settings as a basis for analysis, discussion, and interpretation of behavior within and across cultures. Development of a reflective approach to teaching and problem solving.
750.4T Curriculum Modifications for Teaching Students with Special Needs
45 hours; 3 credits
Adaptation of general education curriculum for teaching students across the range of special needs, including giftedness and English language learners. Principles, rationale, and research-validated methods of instructing and assessing special populations in a variety of settings. Inquiry processes across all content areas and life skills, including literacy, mathematics, social science, and the expressive arts. Focus on the New York State Learning Standards and educational experiences of children and youth from diverse cultural and linguistic backgrounds. Field experiences in schools and a variety of community settings.

750.5T Educational Assessment of Young Children and Students with Special Needs
45 hours seminar plus conference; 3 credits
Critical review and use of formal and informal strategies for the assessment and evaluation of the cognitive, behavioral, social, and affective characteristics of young children and school-aged students with special needs including giftedness. Attention will be given to understanding cultural, linguistic, and societal factors involved in identification, placement and the academic and behavioral performance of students. Focus on curriculum-based assessment and collaboration with other professionals and parents. Field experiences in a variety of school and community settings.

750.6T Teaching Literacy to Students with Special Needs
30 hours lecture, 30 hours field experience; 3 credits
Methods of teaching literacy to students with special needs, including those who are English language learners. Literacy strategies and programs for reading and related communication skills, and use of literature in settings for students with special needs. Field experiences. Role of family, community, and culture in literacy development. Focus on instructional technology, current research validated strategies, and New York State Learning Standards.

750.7T Research Methods in Special Education
45 hours seminar, plus conference; 3 credits
Concepts in educational research and the critical analysis of research pertinent to teaching the student with special needs. Development of research skills and the role of teacher as researcher culminating in the formulation of individual research projects related to teaching students with special needs.

750.8T Seminar and Student Teaching: Students with Special Needs
150 hours; 3 credits
Supervised instruction in teaching young children and school-aged children with special needs. Supervision provided by college faculty in the student's work setting. Discussion with school-based supervisors. Projects related to school and supervisory experiences; a minimum of four supervisory sessions per semester.

750.9T Seminar in Teaching Students Experiencing Emotional Conflict
30 hours plus conference; 3 credits
Analysis of theory and research-validated practices related to the teaching of students experiencing emotional conflict. Discussion of daily classroom and instructional management and implementation of instructional strategies, including literacy across the curriculum with an emphasis on verbal and visual literacies. Exploration of teacher/student interactions and teacher reflective practice.

751.1T Atypical Development in Infants, Toddlers, and Young Children
30 hours plus conference; 3 credits
Developmental processes, early identification and intervention, appropriate curriculum in home, child care, preschool, and early childhood settings. Implications for teacher-parent relations, and development of enriched and nurturing environments for infants, toddlers, and young children with atypical development. Focus on family, interagency, and professional collaboration across cultural, linguistic, and ethnic contexts. Field experiences.

751.2T Adolescence and Emotional Conflict
45 hours; 3 credits
Characteristics, needs, intervention techniques, and curricula. Educational settings, structure of middle school and high school programs for the adolescent experiencing emotional conflict, including the expressive arts and instruction to meet New York State Learning Standards. Preparation for life skills and transition planning.

751.3T An Introduction to Autism Spectrum Disorders
30 hours plus conference; 3 credits
Contemporary issues in autism spectrum disorders from an interdisciplinary and cross-paradigm perspective. Collaborative models for assessment and intervention within the fields of speech-language pathology, special education, and school psychology. Emphasis on partnerships with families. This course is the same as Speech 717X.
Prerequisite: any undergraduate or graduate course in either child development, language acquisition, or speech and language disorders, or permission of the deputy chairperson or program head.

751.4T Speech, Language, and Communication Development of Children on the Autistic Spectrum: Assessment and Intervention
30 hours plus conference; 3 credits
Contemporary issues in speech, language, and communication in children on the autistic spectrum. Models of typical and atypical speech, language and communication acquisition.
Qualitative differences and unique strengths and challenges. Assessment and intervention from different theoretical perspectives, including developmental and behavioral approaches, with emphasis on the integration of various models. Consideration of augmentative and alternative communication. (This course is the same as Speech 717.1X.)

Prerequisite: Speech 717X or Education 751.3T

756.1T Sources of Information
45 hours; 3 credits
Introduction to theories of information, appraisal, and diagnosis and to appraisal and measurement techniques. Role and function of guidance counseling. Introduction to group dynamics. Theoretical basis for strategies of planned intervention. Prerequisite: matriculation in the guidance and counseling program and permission of the program head. Corequisite: Education 724.1T and 756.2T.

756.3T Cases in Planned Intervention
30 hours lecture, 30 hours laboratory; 3 credits
Selected cases. Helping students formulate and follow through on planned intervention strategies. Students are encouraged to analyze their work situations in terms of strengths and weaknesses and to develop strategies for improving the total program as well as their own functioning. Prerequisite: matriculation in the guidance and counseling program and Education 724.2T and permission of the program head. Corequisite: Education 708.1T.

756.11T Working with Families in Schools
45 hours; 3 credits
Discussion of changing nature of families, family systems dynamics and development, and culturally and economically diverse families in urban school context. Working in schools with families, parents, and guardians in the educational and emotional lives of children through family assessments, brief short-term family counseling, parenting workshops, and educational workshops. Consideration of issues and dynamics for the family and child with special needs. Experiential component. Prerequisite: identified in degree requirements in the M.S. in Education Program in School Counseling.

756.12T Contemplative Urban School Counseling
45 hours; 3 credits
Contemplative practices as applied to counseling in urban schools. Promotion of urban schools as caring, healing, growth-enhancing communities. Discussion of recent research and practices in counselor self-awareness, mindful classrooms and schools, counseling and healing, engaged service, and conflict resolution. Consideration of gender, culture, religion, and class with respect to urban school issues. Prerequisite: identified in degree requirements in the M.S in Education program in School Counseling.

757.48T Bilingual and Multicultural Education
45 hours; 3 credits
Examination of theories of bilingual education and the development of models of bilingual education within an international context. Multicultural perspectives in education with specific focus on the similarities and differences found in diverse cultures. Focus on developmental and educational needs of all bilingual English language learners, including bilingual English language learners with special needs.

757.49 Seminar in Bilingual School Counseling
45 hours; 3 credits
Examination of issues and techniques relevant to providing counseling services to culturally and linguistically diverse (CLD) individuals. Content and activities of the course are organized to meet the needs of practicing guidance workers. Theory and experiential activities. Prerequisite: identified in degree requirements in the M.S. in Education program in School Counseling.

758.48T Methods and Research in Teaching English Language Arts to Bilingual English Language Learners
30 hours plus conference, 25 hours supervised field experience; 3 credits
Introduction to methods and research in the teaching of English language arts, including literacy, to all bilingual English language learners, using the native language and English. Review of theoretical formulations that have shaped contemporary understandings of English language learning among linguistic minority students.

760.47T Language Arts, Literacy, and Social Studies in Bilingual Classrooms
30 hours plus conference, 25 hours supervised field experience; 3 credits
Examination of various methods used for literacy development in the native language of bilingual English language learners. Approaches to integrating the teaching of language arts and social studies for bilingual English language learners and English language learners with special needs employing the use of English and the native language.

762.49 Student Teaching: Teaching English as a Second Language in K–12
30 hours seminar, 120 hours student teaching; 3 credits
Pedagogical approaches and ideas underlying second language acquisition and teaching applied to the classroom. Approaches to integrating language and content instruction for all English language learners including those with special developmental and educational needs. Seminar and college supervised student teaching K–12. Prerequisite: Education 760.49T and Education 761.49T, and approval of the program adviser.
763T Teaching Literature for Children and Adolescents
30 hours plus independent work and conference; 3 credits
Planning balanced programs of reading, and school and library services. New media equipment and procedures in the use of books to study people and culture, places, science, historical heritage, biography. Interpretation of literature through art media.
Prerequisite: a course in methods and student teaching in early childhood education or elementary education or a course in methods and student teaching in English in secondary education; and a graduate workshop.

763.1T Workshop in Early Childhood Education
45 hours; 3 credits
Study of solution of problems concerning the organization of subject matter. Techniques of instruction, classroom management, pupil adjustment, school-community relationships. Attention is given to the particular needs and interests of students, with provision for individual and group study. (Not open to students who are enrolled in or have completed any of the following: Education 663.2T, 663.3T, 663.4T, 663.22T, 763.2T, 763.3T, 763.4T, 763.22T.)
Corequisite: Education 764.1T or employment as a teacher in a public or approved private school.

763.4T Workshop in the Language Arts
45 hours; 3 credits
Problems in teaching language arts: reading and oral and written communication. Attention is given to the particular needs and interests of students, with provision for individual and group study. (Not open to students who are enrolled in or have completed any of the following: Education 663.1T, 663.2T, 663.3T, 663.21T, 663.22T, 763.1T, 763.2T, 763.3T, 763.21T, 763.22T.)
Corequisite: Education 764.1T or 764.2T or 764.5T or employment as a teacher in a public or approved private school.

Adolescence education and special subjects
Courses 763.01T–763.17T are intended for students pursuing programs in adolescence education or special subjects.

Students take the course appropriate to their area.

.01 English
.02 Social studies
.03 Mathematics
.04 Science
.11 Modern languages
.13 Physical education
.16 Health science
.17 Art

763.01T Seminar I in Pedagogy and Curriculum,
Middle Childhood and Adolescence Education: English
45 hours, plus conference; 3 credits
Seminar concerning problems and issues in the organization of subject matter. Introduction to methods of instruction, curriculum development and assessment, classroom management, and developing school-community relationships. Focus on self-reflective teaching styles and assessment procedures to address the learning needs of a diverse student population, students with special needs, and English language learners. Preparation in literacy and language acquisition. Attention given to particular needs and interests of students and methods of integrating technology into the classroom. Role of materials and resources applied to teaching English at grade levels appropriate for state certification requirements. Not open to students who are enrolled in or have completed Education 763.32T, 763.33T, 763.34T, 763.35T, 763.36T, 763.37T, 763.39T.
Corequisite: Education 764.5T.

763.02T Seminar I in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Social Studies
45 hours, plus conference; 3 credits
Seminar concerning problems and issues in the organization of subject matter. Introduction to methods of instruction, curriculum development and assessment, classroom management, and developing school-community relationships. Focus on self-reflective teaching styles and assessment procedures to address the learning needs of a diverse student population, students with special needs, and English language learners. Preparation in literacy and language acquisition. Attention given to particular needs and interests of students and methods of integrating technology into the classroom. Role of materials and resources applied to teaching social studies at grade levels appropriate for state certification requirements. Not open to students who are enrolled in or have completed Education 763.32T, 763.33T, 763.34T, 763.35T, 763.36T, 763.37T, 763.39T.
Corequisite: Education 764.5T.

763.03T Seminar I in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Mathematics
45 hours, plus conference; 3 credits
Seminar concerning problems and issues in the organization of subject matter. Introduction to methods of instruction, curriculum development and assessment, classroom management, and developing school-community relationships. Focus on self-reflective teaching styles and assessment procedures to address the learning needs of a diverse student population, students with special needs, and English language learners. Preparation in literacy and language acquisition. Attention given to particular needs and interests of students and methods of integrating technology into the classroom. Role of materials and resources applied to teaching mathematics at grade levels appropriate for state certification requirements. Not open to students who are enrolled in or have completed Education 763.32T, 763.33T, 763.34T, 763.35T, 763.36T, 763.37T, 763.39T.
Corequisite: Education 764.5T.
763.04T Seminar I in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Science
45 hours, plus conference; 3 credits
Seminar concerning problems and issues in the organization of subject matter. Introduction to methods of instruction, curriculum development and assessment, classroom management, and developing school-community relationships. Focus on self-reflective teaching styles and assessment procedures to address the learning needs of a diverse student population, students with special needs, and English language learners. Preparation in literacy and language acquisition. Attention given to particular needs and interests of students and methods of integrating technology into the classroom. Role of materials and resources applied to teaching science at grade levels appropriate for state certification requirements. Not open to students who are enrolled in or have completed Education 763.32T, 763.33T, 763.34T, 763.35T, 763.36T, 763.37T, 763.39T.
Corequisite: Education 764.5T.

763.11T Seminar I in Pedagogy and Curriculum, Middle Childhood and Adolescence Education: Modern Lang
45 hours, plus conference; 3 credits
Seminar concerning problems and issues in the organization of subject matter. Introduction to methods of instruction, curriculum development and assessment, classroom management, and developing school-community relationships. Focus on self-reflective teaching styles and assessment procedures to address the learning needs of a diverse student population, students with special needs, and English language learners. Preparation in literacy and language acquisition. Attention given to particular needs and interests of students and methods of integrating technology into the classroom. Role of materials and resources applied to teaching modern languages at grade levels appropriate for state certification requirements. Not open to students who are enrolled in or have completed Education 763.32T, 763.33T, 763.34T, 763.35T, 763.36T, 763.37T, 763.39T.
Corequisite: Education 764.5T.

763.23T Child Education: Student Teaching in Grades 1-6
30 hours, 300 hours or 40 days supervised teaching practice; 3 credits
Supervised fieldwork in teaching childhood education; problems and issues in the organization of all aspects of childhood education curriculum; emphasis on the development of an interdisciplinary approach to teaching. Focus on self-reflective teaching and assessment; techniques of instruction, integration of instructional technology, classroom management, skills in fostering effective relationships to support all students, development of collaborative school-community relationships. Readings and discussions on significant education issues, including preventing child abuse, substance abuse, safety education, and child abuse awareness. Attention is given to the particular needs and interests of students, including English language learners and students with special needs. (Not open to students who are enrolled in or have completed any of the following: Education 663.1T, 663.3T, 663.4T, 663.21T, 663.22T, 763.1T, 763.3T, 763.4T, 763.21T, 763.22T.)
Prerequisites: Education 718.22, 794X, 763.25, 763.26 or permission of the program head.
763.25T Teaching Mathematics in Childhood Education
45 hours plus conference; 30 hours field experience; 3 credits
Problems and issues in the organization and teaching of subject matter. Techniques of instruction. Introduction to approaches for teaching mathematics to all children from preschool through grade 6, including English language learners and students with special needs. Overview of children's development of number and geometric and spatial sense; informal mathematical knowledge of young children. National, state, and local standards and curriculum guidelines. Teaching mathematical concepts, computational skills, and higher order thinking processes; integration of mathematics with literacy and other subject areas; formal and informal assessment. Role of technology in teaching and learning mathematics.
Prerequisite: Mathematics 1.95 or a mathematics course approved by the program adviser.

763.26T Teaching and Learning Science in Childhood Education
45 hours plus conference, 30 hours field experience; 3 credits
Introduction to research-validated models of teaching science to all students, including students with special needs and English language learners; classroom management; school-community relationships; individual and collaborative inquiry; reflective practice; analysis of national, state and local learning standards in science and technology; integrating technology into the classroom; developing, implementing and evaluating science curriculum in urban classrooms.

763.32T-.39T Workshop in Secondary Education
45 hours; 3 credits
763.33T Integrated/interdisciplinary curriculum
763.34T Social studies
763.35T Mathematics
763.36T Science
763.37T Modern languages
763.38T Music
763.39T Art
Workshop concerning problems and issues in the organization of subject matter. Techniques of instruction, classroom management, pupil adjustment, school-community relationships. Attention is given to the particular needs and interests of students, with provision for individual and group study. (Not open to students who are enrolled in or have completed any of the following: Education 663.1T, 663.2T, 663.4T, 663.21T, 663.22T, 763.1T, 763.2T, 763.4T, 763.21T, 763.22T.)
Corequisite: Education 764.2T or employment as a teacher in a public or approved private school.

763.52T-.58T Seminar in Special Education
45 hours; 3 credits
763.52T Students with Learning Disabilities
763.53T Students Experiencing Emotional Conflict
763.54T Developmental Disabilities
763.55T Classroom Organization and Management
763.56T Literacy and Communication
763.57T Mathematics and Students with Special Needs
763.58T Learning Process and the Arts
Seminar concerning problems and issues in the organization of subject matter, techniques of instruction, classroom management, pupil adjustment, school-community relations. Attention is given to the particular needs and interests of students, with provision for individual and group study. (Not applicable to master's programs for teachers of the emotionally handicapped, mentally retarded, learning disabled.)
Corequisite: Education 764.2T or 764.5T, or employment as a teacher in a public or approved private school.

764T Seminar and Comprehensive Student Teaching: Early Childhood Education
3 hours recitation, weekly supervised teaching (at least 300 hours); 6 credits
Student teaching in one or more of the following age levels: preschool, kindergarten, grades 1 and 2 as required to qualify for initial certification in early childhood education. Design of developmentally appropriate environments, curricula and pedagogy for young children birth-grade 2. Emphasis on learning needs of children in culturally and linguistically diverse urban settings. Reflection on practice. Development of professional portfolio. Open only to students who have completed all program courses with a grade point average of 3.00 or higher.
Prerequisite: Education 705.13T or 706.11T; 705.11 or 708.11T or 725.11T or 751.1T; 720.11T or 727.11T; 728.11T; 710.11T; 709.11T or 709.13 or 709.15; 710.13 and a cumulative graduate education index of 3.00 or higher.

764.04T Middle Childhood and Adolescence Science Education: Seminar and Student Teaching Practicum II
30 hours seminar; 150 hours or 20 days of supervised student teaching in Middle Childhood Education grades 7–9; 3 credits
Supervised field work in teaching middle childhood science education. Emphasis on teaching young adolescents from diverse backgrounds, those who are English language learners, and those with special needs. Integration of disciplinary curriculum, instructional technology, and topics required by New York State standards in Professional certification.
Prerequisite: initial certification or Education 742X, 792.1X and permission of the Program Head.

764.1T Seminar and Student Teaching Practicum I in Early Childhood Education
15 hours seminar; at least 150 hours student teaching/semester; 3 credits
Advanced course in student teaching. Opportunity for extensive participation in teaching and school activities. Hours to be arranged. Students who hold an Initial certificate in Childhood Education or in Special Subjects must complete at least 150 hours of student teaching in Education 764.1T
in order to qualify for the Professional Certificate in Early Childhood Education. Students who do not hold an initial certificate in Early Childhood Education or Childhood Education or in Special Subjects must complete at least 150 hours of student teaching in Education 764.1T and an additional 150 hours of student teaching in Education 764.11T in two of the following age groups: preschool, kindergarten, or grades one and two. All students must have experience with all three age groups through the combined field experience and student teaching prctica.

Prerequisites: Education 705.13T or 706.11T; 705.11 or 708.11T or 725.11T or 751.1T; 720.11T or 727.11T; 728.11T; 710.11T; 709.11T or 709.13 or 709.15; 710.13 and a cumulative graduate education index of 3.00 or higher.

764.2T Childhood Education: Student Teaching Practicum
30 hours seminar; 150 hours or 20 days of supervised student teaching in Childhood Education grades; 3 credits
Supervised field work in teaching all aspects of the childhood education curriculum. Emphasis on the development of an interdisciplinary approach to teaching children from diverse backgrounds, those who are English language learners, and those with special needs. Integration of instructional technology, interdisciplinary curriculum and topics required by New York State standards in Professional certification.
Prerequisite: Initial certification in Early Childhood Education or in a Special Subject.

764.5T Adolescence Education and Special Subjects: Student Teaching Practicum \( \text{I} \)
150 hours or twenty days of supervised student teaching; 30 hours field observation; 2 credits
Course in student practice teaching. Opportunity for extensive and intensive participation in teaching and school activities. Hours to be arranged. Observing, developing, and studying curriculum in light of teaching experiences and observations.
Prerequisite: Education 742X, 792.1X, and permission of the head of Adolescence Education and Special Subjects and the chairperson of the major department. Corequisite: Education 763.01T or 763.02T or 763.03T or 763.04T or 763.11T or 763.13T or 763.16T, or 763.17T

764.11T Seminar and Student Teaching Practicum \( \text{II} \) in Early Childhood Education
15 hours seminar; at least 150 hours student teaching/semester; 3 credits
Pedagogy and curriculum development in early childhood settings, birth through grade 2. Integrated curriculum in early childhood settings, with a focus on culturally and linguistically diverse urban settings. Teachers as researchers; development of a reflective approach to teaching and assessing a diverse child population, including children with special needs and English language learners. Families and communities in early childhood education; interagency collaboration. Students who have completed 150 hours of student teaching in Education 764.1T in preschool, kindergarten, or grades one and two, must complete the student teaching requirements for this course in a second age level.
Prerequisite: 764.1T and a cumulative graduate education academic index of 3.00 or higher.

764.25T Middle Childhood Science Education: Seminar and Student Teaching Practicum \( \text{I} \)
30 hours seminar; 150 hours or 20 days of supervised student teaching in Middle Childhood Education grades 5–6; 3 credits
Supervised field work in teaching middle childhood science education. Emphasis on the development of an interdisciplinary approach to teaching pre-adolescents from diverse backgrounds, those who are English language learners, and those with special needs. Integration of instructional technology and topics required by New York State standards in Professional certification.
Prerequisite: Initial certification in Early Childhood Education or in a Special Subject or 12 credits in education including Education 742X, 792.1X, 714.25, 715.25 and permission of the Program Head.

764.51T Adolescence Education and Special Subjects: Student Teaching Practicum \( \text{II} \)
150 hours or 20 days of weekly supervised teaching, 30 hours of field experience; 2 credits
Advanced course in student practice teaching. Opportunity for more extensive and intensive participation in teaching and school activities. Hours to be arranged. Daily supervised student teaching in grades and subject areas appropriate for New York State certification requirements. Observing, developing, and studying curriculum in light of teaching experiences and observations.
Prerequisite: Education 742X, Education 792.1X and permission of the head of Adolescence Education and Special Subjects and the chairperson of the major department.
Prerequisite or corequisite: Education 763.01 or 763.02 or 763.03 or 763.04 or 763.11 or 763.13 or 763.16 or 763.17, and Education 764.5T.
Corequisite: Education 723.01 or 723.02 or 723.03 or 723.04 or 723.11 or 723.13 or 723.16 or 723.17.

765.1X Issues of Teaching in Middle Childhood
45 hours; 3 credits
Issues in middle childhood teaching. Education for democratic citizenship and intercultural understanding; development and learning of preadolescents and young adolescents; providing for individual differences and special needs; organization of the classroom, school, and curriculum including team teaching, interdisciplinary and integrated curricula; articulation among elementary, middle, and secondary schools; guidance, homeschoo1 relations, testing, and assessment.
Prerequisite: permission of a program adviser for Middle Childhood Education.
766.2X Assessment of Second Language
30 hours plus conference; 3 credits
Assessment of English language learners, including those with special needs. Emphasis on qualitative and quantitative procedures. Examination of major language instruments for all ages and proficiency levels, development of self-made language tests and informal assessment techniques, and practical reflection on linking language assessment to instruction. Consideration of linguistic, cultural, and socioeconomic background in modifying and adapting testing procedures. Applications to educational and community settings. This course is the same as English 779.1X and Speech 735.1X.
Prerequisite: either Education 760.49T and 761.49T or a course in normal development of language or permission of the deputy chairperson.

770X School-Community Relations
30 hours plus conference; 3 credits
Role of the educational leader in fostering effective and responsive relations between school and community. Practical problems are drawn from the field for analysis and study. This course satisfies the requirement for the human relations course that all New York City teachers must take and is approved as such by the New York City Department of Education.
Prerequisite: Permission of the head of the educational leadership program.

771X Supervision of Instruction
30 hours plus conference; 3 credits
Theory and practice of supervision as an aspect of administration.
Prerequisite: Permission of the head of the educational leadership program.

772.3X School Instruction and Curriculum Development, Innovation, and Evaluation
30 hours plus conference; 3 credits
Principles underlying present instructional and curriculum practice and ways of changing instruction and the curriculum. Design and evaluation of instructional and curriculum research.
Prerequisite: permission of the head of the educational leadership program.

772.4X Workshop in School Curriculum Development, Experimentation, and Evaluation
45 hours; 3 credits
Investigation of newer practices and experimentation in selected areas of school curriculum. Students are expected to plan and/or implement a practical project applicable to their school situation.
Prerequisite: Education 772.3X and permission of the head of the educational administration and supervision program.

773X Instructional Interventions in Schools
45 hours plus conference; 3 credits
Policies regulating curriculum development and practices. School based curriculum evaluation and models of curriculum based assessment applied to instructional accommodations and assistive technologies. Differentiation of instruction and other curriculum modifications for all students including students with special needs and English Language Learners. Learning strategies and approaches to literacy instruction.
Prerequisite: matriculation in the school psychologist program and Education 721.1X and permission of the program head.

774.1T Improvement of Teaching: Behavior Modification and Whole-Class Teaching
45 hours; 3 credits
Teaching models and strategies to extend the in-service teacher's conceptual scheme of teaching. Self-analysis systems are explored and applied by means of feedback mechanisms. Practice in behavior modification and whole-class teaching skills.
Prerequisite: employment as a teacher or supervisor in a public or approved private school.

774.2T Improvement of Teaching: Open Classroom, Individual, and Small-Group Teaching
45 hours; 3 credits
Continuation of Education 774.1T. Practice with models and strategies applicable to open classroom, individualized, and small-group teaching.
Prerequisite: employment as a teacher or supervisor in a public or approved private school.

775.01-.06 Colloquium in Educational Leadership
15 hours lecture, 75 hours field work plus conference; 3 credits
Selected aspects of educational leadership through lectures, readings, case analyses, and directed on-site assignments. Students devote 75 hours to supervised field work during the term. The content of the colloquium varies from term to term, increasing each term in focus and depth of analysis.
Prerequisite: permission of the head of the educational leadership program.
Corequisite: Education 775.01T must be taken with Education 772.3X. Education 775.02T must be taken with Education 775.4X. Education 775.03T must be taken with Education 771X. Education 775.04T must be taken with Education 775.3X. Education 775.05T must be taken with Education 777.1X. Education 775.06T must be taken with Education 770X.

775.1X Administration: Theory and Practice I
45 hours; 3 credits
Theories, concepts, and processes in administration. Recent changes and current practices.
Prerequisite: matriculation in the educational administration and supervision program and permission of the program head.
775.2X Administration: Theory and Practice II
45 hours; 3 credits
Theory and practice of the leadership role of administrators in school organizations. Nature of leadership and its implications for administrator behavior. Techniques for successful exercise of leadership with emphasis on urban schools. Practical problems from the field are studied and analyzed.
Prerequisite: Education 775.1X and permission of the head of the educational administration and supervision program.

775.3X Personnel Functions in Educational Leadership
30 hours plus conference; 3 credits
Personnel functions and their impact on the effectiveness of the organization in relation to goals.
Prerequisite: permission of the head of the educational leadership program.

775.4X Management and Finance Functions in Educational Leadership
30 hours plus conference; 3 credits
Exercise of leadership in the management and finance functions of public school organizations.
Prerequisite: permission of the head of the educational leadership program.

777.1X Education Law and Ethics
30 hours plus conference; 3 credits
School law and ethics as they affect the policies, organization, and administration of public and private schools.
Prerequisite: permission of the head of the educational leadership program.

777.2X Collective Negotiations in Public Education
45 hours; 3 credits
Meaning and impact of collective negotiations on public education.
Prerequisite: matriculation in the educational administration and supervision program or permission of the program head.

778.1T Internship in Educational Administration and Supervision I
90 hours; 3 credits
Administrative-supervisory internship in an educational organization under the supervision of a practicing school administrator and members of the college faculty in educational administration and supervision. Application of theories and concepts to practical situations that confront the administrative and supervisory practitioner.
Prerequisite: Education 771X, 772.3X, 775.1X, 775.2X; and permission of the head of the educational administration and supervision program.
Corequisite: Education 710T.

781X Projects in Creative Art for the Classroom
30 hours lecture plus conference, 15 hours field experience; 3 credits
Initiation and development of projects in creative art in consultation with the instructor. Presentation of an evolving portfolio to both art and education faculty for evaluation. Must satisfy standards of originality and execution consistent with achievement of the advanced degree, and demonstrate and document how personal artistic knowledge translates into classroom practice. (This course is the same as Art 781T)
Prerequisite: Matriculation for the M.A. in teaching art.

784.1X Introduction to Technology in Childhood Education
30 hours, 30 hours laboratory; 3 credits
Prerequisite: 12 credits in education and permission of the program head of Childhood Education: Mathematics.

784.2X Integrating Technology and Media in Adolescence Education
30 hours lecture, 30 hours laboratory; 3 credits
Examination of the instructional applications of technology and media in Adolescence Education; consequent new roles for teachers and changes in classroom organization; computer literacy; analysis and evaluation of selected technologies and media designed for teaching various subject areas in grades 7–12. (Not open to students who have completed Education 784.1X.)

788.1T, 788.2T Seminar in Guidance Practice I, II
45 hours each term; 3 credits each term
An independent project course on problems in selected areas of guidance practice. Content and activities of the course are organized to meet the needs of practicing guidance workers. Independent and group study.
Prerequisite: matriculation in the guidance and counseling program and permission of the program head.
**789.10T Advanced Methods for Teaching Childhood Mathematics**
45 hours plus conference; 3 credits.
Prerequisite: A course in teaching childhood mathematics, and 6 credits in mathematics.

**790.1T, 790.2T Honors Seminar in Education I, II**
30 hours each term; 2 credits each term
Individual study and research supervised by a faculty member. A written report is required.
Prerequisite: 12 credits in graduate courses including at least two education courses, and evidence of superior scholarship, high professional promise, and capacity for self-directed study, and permission of the deputy for graduate studies.

**790.11T, 790.12T Independent Study in Guidance**
Hours to be arranged; 3 credits each term
Independent study and research supervised by a faculty member. Written report.
Prerequisite: matriculation in the guidance and counseling program and permission of the program head.

**790.21X Independent Study in School Psychology**
Hours to be arranged; 3 credits
Independent study and research in a selected area of school psychology supervised by a faculty member. Research paper.
Prerequisite: matriculation in the School Psychologist Program and permission of the program head.

**791.10T Counseling in Community Settings**
30 hours plus conference; 3 credits
Critical and historical perspectives on community counseling. General principles of community intervention, consultation, education, and outreach. Current methods of practice, including assessment and diagnosis in social context. Role of school counselor in making referrals. Survey of community agencies and organizations. Required projects in school or community setting.
Prerequisite: identified in requirements in the Advanced Certificate program in School Counseling.

**791.11 Advanced Internship I**
150 hours; 3 credits
First of two supervised internships in community counseling. Direct counseling and advocacy with clients and indirect collateral service, including consulting, coordinating, and collaboration, with on-site supervision at an approved internship site. Weekly group supervision devoted to evaluation of students' practice in community settings, using self-report, journals, videotaped counseling sessions, observations, and selected advanced topics related to community counseling. Special section of course for students pursuing specialization in bilingual counseling.
Prerequisite: identified in requirements in the Advanced Certificate program in School Counseling.

**791.12T Urban Trauma: Counseling Issues and Strategies**
45 hours; 3 credits
General nature of trauma and post-traumatic stress disorder. Topics include risk and resiliency factors for youth and community, trauma and schools, crisis intervention, diagnosis, and post-trauma individual and group counseling.
Prerequisite: identified in requirements in the Advanced Certificate program in School Counseling.

**791.13T Advanced Internship II**
150 hours; 3 credits
Second of two supervised internships in community counseling. Direct counseling and advocacy with clients and indirect collateral service, including consulting, coordinating, and collaboration, with on-site supervision at an approved internship site. Weekly group supervision devoted to evaluation of students' practice in community settings, using self-report, journals, videotaped counseling sessions, observations, and selected advanced topics related to community counseling.
Prerequisite: identified in requirements in the Advanced Certificate program in School Counseling.

**791.21X Analysis of Classroom Interaction and Curriculum**
45 hours seminar, 20 hours field experience; 3 credits
Improving teaching methods through techniques of self-analysis and analysis of classroom interactions. Analysis of the instructional settings and instructional strategies with focus on students with special needs and English language learners. Analysis of learning processes and modes of communication in the classroom. Examination of the specialized discourses of the subject disciplines in adolescent, middle, and childhood curricula. Analysis of uses of technology in the classroom.
Prerequisite or corequisite: Education 742X.

**792.1X Teaching Writing Across the Curriculum**
30 hours plus conference; 3 credits
Examination of the writing process as it may be used in subject areas. Study and application of recent research to classroom practice. Analysis of the relationship between writing, critical thinking, and learning and teaching in the subject area.
**792.3X Teaching Lexicography and Vocabulary Across the Curriculum**

30 hours lecture, 30 hours laboratory; 3 credits

Methods and techniques of vocabulary improvement in the classroom setting. Application to classroom practice of the study of the history of the English language, the science of lexicography, and principles of etymology and semantic change. Analysis of selected words and word roots from subject areas taught throughout secondary schools with special emphasis on vocabulary development, the nature of language, and the relationships among languages.

**792.4X Advanced Theories and Practice of Composition**

30 hours plus conference; 3 credits

Theory and practice of teaching writing at the secondary level (grades 7-12), and such related issues as revision, evaluation, and teaching writing to English language learners. (This course is the same as English 779X.)

**794X Literacy: Issues and Analysis**

45 hours plus conference; 30 hours field experience; 3 credits

Review and analysis of research in the teaching and learning of literacy. Application of reading and writing, learning theories and research findings in teaching children of varying abilities and in interdisciplinary language arts curricula in childhood education. Pedagogy and instructional practices; focus on English language learners and students with special needs; literacy development and learning process; formal and informal assessment.

Prerequisite: permission of the program head.

**796X Theater in the Classroom**

30 hours plus field experience; 3 credits

Theater work in classroom settings. Existing models of theater arts in education. Using theater, improvisation and creative drama to explore specialized subject areas and pedagogy. Practical studio work. The classroom as theater. Collaboration of education and theater students on theater in education projects, including workshops in focus schools. Mainstage and outside productions. Visits to area public schools. Creation of age-appropriate theater study guides.

(This course is the same as Theater 741X.)

Prerequisite: permission of the instructor and the head of Adolescence Education and Special Subjects.

**798X Introduction to Second Language Acquisition and English Language Learning**

30 hours plus conference; 3 credits

Survey of second language acquisition theory and research as it relates to teaching English as a second language. The influence of speech and language disorders. Application of recent research findings in child first and second language acquisition, language typology, universal grammar and parameters, various models of second language acquisition, instructed second language learning, the critical period hypothesis, the social context, and other influences on second language acquisition. Data collection and analysis. Applications to educational and community settings. This course is the same as English 779.2X and Speech 735X.

Prerequisite: either English 702.6X or a course in normal language acquisition or permission of the deputy chairperson.

**798.49T Seminar: Independent Research Project in Second Language Learning**

45 hours; 3 credits

Principles and methods in research in TESOL with emphasis on research in English language learning classroom settings. Development of observation and recording methodologies emphasizing the role of teacher as researcher. Scope and variety of educational research; principles and characteristics of qualitative and quantitative research; structure and organization of a research project. Review of research literature related to current themes and issues in education.

Prerequisite: Education 798X.

**799.5X, 799.6X, 799.7X Special Topics in Education**

45 hours; 3 credits

Selected topics or recent advances in education that reflect current interests, professional needs, and educational problems of teachers and other school personnel. Topics vary from term to term.

Prerequisite: license or certificate to serve as teacher, paraprofessional, or supervisor in day care center, kindergarten, elementary, or secondary school. Additional prerequisites may be required for a specific topic.
The following courses are inactive and will be offered only if there is sufficient demand:

680.3T  Issues and Strategies in Education
680.4T  Issues and Strategies in Education
700T   Statistical Methods in Educational Research
700.32T Observation and Assessment of Young Children with Special Needs
700.33T Analysis of Learner Behavior
701.1T  Seminar in Research: Mathematics Education
702T   Seminar: Independent Research Project
702.32T Applications of Theory in Special Education
702.33T Theory and Practice in Special Education
703.32T Seminar in Applied Theory and Research
712.32T Teaching Young Children with Special Needs
715.32T Advanced Seminar in Disabilities
715.33T Contextual Issues in Special Education
716.32T Early Intervention and Working with Families
717.32T Special Issues in Education: Communication and Young Children with Special Needs
722T   Behavioral Bases of Reading Instruction
726.3X  Psychological and Sociological Problems of Adolescence
728T   Community Resources in Guidance
729T   Industrial and Community Relations in Guidance
731T   Philosophical Issues in Contemporary Education
734.1T  Career and Educational Counseling
735.3X  Foundations of Professional School Counseling
736.1T  Counseling Leadership in Urban Schools
745T   Prevention, Diagnosis, and Remedial Treatment of Disabilities in the Language Arts
745.2T  Practicum in Remedial Reading
747X   Soviet Education
747.1T  The Teaching of English to Language-Handicapped Children in the Primary School
747.2T  The Teaching of English to Language-Handicapped Students in Upper Elementary and Early Secondary Grades
748T   Theories and Practices in the Study of the Young Child's Progress
749T   Human Relations Problems and Practices in Childhood Education
759.48T Teaching English as a Second Language: The Arts as Expression

760.49T ESL Approaches Across Content Areas (K–6)
761.47T Mathematics, Science, and Technology in Bilingual Classrooms
761.49T ESL Approaches Across Content Areas (7–12) Science and Technology
762.47T Practicum: Bilingual Teaching PreK–6
763.16T Seminar I in Pedagogy and Curriculum: Health and Nutrition Sciences
763.33T Workshop in Secondary Education
763.37T Workshop in Secondary Education
764.21T Student Teaching Practicum in Education of Students with Cognitive Disabilities
771.1T  Recent Research and Innovation in School Practice for Supervisors of Student Teachers
771.2T  Practicum in Supervision of Student Teachers
776.1X  The Public Administration of Education
776.2X  Financing Public Education
778.2T  Internship in Educational Administration and Supervision II
783T   Thesis Research
785.1X  Instructional Software for Microcomputers
785.2X  Microcomputers in the Teaching of Mathematics
785.3X  Microcomputers in the Teaching of Language Arts
786.1X  Project Seminar in Computer Education
797X   Teaching Reading Improvement in Secondary School
M.A. in English
HEGIS code 1501; SED program code 02044

The master of arts in English program immerses students in literature dating from the Middle Ages through the present. Through the study and analysis of a variety of literary texts, critical and theoretical approaches (including, among others, new historicism, reader-response theory, deconstruction, feminist criticism, and post-colonial studies), and historical concepts, students are afforded the opportunity to develop individual interpretations of texts and to evaluate controversies surrounding the canon. Small-group tasks, oral presentations, short papers, and longer research papers complement lectures, discussions, and examinations. Travel and research grants are available to our students, several of whom have presented at graduate colloquia at Brooklyn College and at other universities throughout the country and abroad, or have had papers accepted for publication in journals.

Our graduates have found new employment or enhanced their present careers in diverse fields including education, publishing, writing for both for-profit and non-profit organizations. Others have been accepted into doctoral programs.

Matriculation requirements
Applicants must offer at least 12 credits in advanced courses in English literature.

Applicants must have a minimum undergraduate grade point average of 3.00.

Applicants must submit a sample of critical writing of about ten pages, and a two-page statement of academic purpose.

Foreign applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 650 on the paper-based test or 280 on the computer-based test before being considered for admission.

General matriculation and admission requirements of the Division of Graduate Studies are in the chapter “Admission.”

Degree requirements
Thirty-three credits are required for the degree.

Courses in English and comparative literature are grouped in the following areas of study:

1. Literature before 1500: English 705X, 706X, 708X, 791X.
2. Literature from 1500 to 1800: English 721X, 724X, 731X, 751X, 760X, 761X, 792X.
3. Literature from 1800 to 1900: English 741X, 742X, 749.1X, 749.2X, 752X, 793X.
4. Literature from 1900 to the present: English 750X, 750.9X, 753.1X, 753.2X, 757X, 763X, 794X.
5. Theory and criticism: English 710X, 775X, 775.1X, 775.2X, 775.3X, 775.4X, 778X, 779X, 795X.
7. Comparative literature: Comparative literature 706.1X, 707.1X, 708.1X; English 795.7X.

The following courses are required: English 700X; English 780X; one course from six of the seven areas of study; one elective.

In addition, students must consult an adviser and choose three courses in one area.

Early in the first term, students must have a program of study approved by the English Department.

Students must submit a thesis acceptable to the department on a subject related to their area of specialization.

Students must pass a written comprehensive examination.

Students must pass the English Department M.A. French examination or a test administered by the Department of Modern Languages and Literatures, or they must pass a foreign language course acceptable to the deputy chairperson. The foreign language requirement may be waived for a native speaker with permission of the English graduate deputy.

Courses in the English Department offered toward the degree must be 700-level courses.

M.F.A. in creative writing
HEGIS code 1507; SED program code 02056

Our small, highly personal two-year program confers a master of fine arts degree in creative writing in either fiction, poetry, or playwriting.

The program offers single-discipline and inter-genre workshops, literature seminars, small-group reading tutorials, and one-on-one tutorials, which all emphasize relationships between eminent program coordinators, faculty, and students.

Additionally, students have the opportunity to work on The Brooklyn Review and give public readings/performances in Brooklyn and Manhattan. The program offers some fellowships as well as prizes and a winter writing residency at the Espy Foundation in Oysterville, Washington. Students may also teach undergraduate courses for the English Department.
Our graduates have had their work published widely and have won competitions sponsored by the Iowa Review, the Colorado Review, the Mississippi Review, and Zoetrope. They have been included in The Best New Young Poets anthology and The Best American Short Stories. Our playwrights have won Obies, started theater companies, and had their plays produced here and abroad.

**Matriculation requirements**

Fiction and Poetry: Applicants must offer at least 12 credits in advanced courses in English. Thirty pages of original fiction or twenty pages of original poetry must be submitted for evaluation.

Playwriting: Applicants must offer at least 12 credits in advanced courses in English or theater. One original full-length play or two or more original one-act plays must be submitted for evaluation.

Applicants who do not meet course requirements but whose manuscripts show unusual talent are considered for admission. Manuscripts should be submitted directly to the deputy chairperson in the English Department at the time of application, before March 1 for fall admission and before November 1 for spring admission.

Foreign applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 650 before being considered for admission.

General matriculation and admission requirements of the Division of Graduate Studies are in the chapter “Admission.”

**Degree requirements**

Thirty-six credits are required for the degree.

Students must complete one of the following concentrations. The fiction concentration consists of 27 credits. The poetry and playwriting concentrations consist of 24 credits.

**Fiction:**

English 753.3X to be taken in the first semester. English 782X to be taken four times, but not more than once in any semester; English 799.1X to be taken two times in the first year, but not more than once in any semester; English 796X to be taken two times in the second year, but not more than once in any semester.

**Poetry:**

English 783X to be taken four times, but not more than once in any semester; English 797X to be taken four times, but not more than once in any semester.

**Playwriting:**

English 784X to be taken four times, but not more than once in any semester; English 798X to be taken four times, but not more than once in any semester.

Students in the fiction concentration must complete 9 credits in three courses, and students in the poetry and playwriting concentrations must complete 12 credits in four courses chosen from the 700-level courses in literature in the English Department (including courses in comparative literature).

Students may substitute for no more than two such courses any two 700-level courses from the Departments of Art, History, Modern Languages and Literatures, Philosophy, Speech, Television and Radio, or Theater, or the Conservatory of Music. Students may substitute one writing workshop or tutorial outside of their major writing concentration for one literature course.

Permission to register for any of these substitute courses may be required from the graduate deputy chairperson of the appropriate department.

Students must pass a comprehensive examination that tests a knowledge of literature, particularly modern literature in the genre most pertinent to the student's own writing. A list of books on which the student is tested is prepared by the student and adviser.

A substantial manuscript must be submitted and filed according to instructions available from the deputy chairperson. Students concentrating in fiction or poetry must submit original creative writing, in publishable form, such as a novel or collection of stories or poems. Students concentrating in playwriting must submit a full-length play or a number of one-act plays, in producible form, that would constitute a theatrical production. In cooperation with the Theater Department, efforts are made to produce the student's major work.

The program of study must be approved by the department.

**Recommendations**

Students are urged to take one workshop, one tutorial, and one literature course each semester in order to complete the program in four semesters. A reading knowledge of a foreign language is strongly recommended.
Applicants must also offer (a) or (b) or (c):

(a) New York State Initial Certification in teaching English for grades 7–12;

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching English in grades 7–12; 100 hours of fieldwork; 40 days or 300 hours of student teaching English in grades 7–12, or one year of full-time teaching English in grades 7–12; and submission of scores on the Liberal Arts and Science Test (L.A.S.T.);

(c) an undergraduate degree with a major in English or appropriate course work in English, and submission of scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 650 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the English Department in the appropriate subject area.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and the chairperson of the English Department in the appropriate subject area.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education and the chairperson of the English Department in the appropriate subject area.

General matriculation and admission requirements of the Division of Graduate Studies are in the chapter “Admission.”

Degree requirements

A minimum of 30 credits is required for the degree.

Students must complete 18 credits in courses in English.

The following courses are required: English 700.1X and 715X. In addition students must complete a course in four of the seven areas of study listed under the M.A. in English above, as follows: three courses from areas 1–5 and 7; and one of the following courses from area 6: English 701X or 702X or 702.6X or 703X or 795.6X.

Students must complete 12 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching English must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching English or equivalent coursework and teaching experience or who are teaching but do not possess Initial Certification in teaching English must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below. Students pursuing Initial Certification in teaching English must take Education 792.4X, Advanced Theories and Practice of Composition, in Group III. Students who already have a master's degree but wish Initial Certification in teaching English must take the appropriate courses in Group I and Group III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

Group I:
Education 742X, 792.1X, 763.01T, 764.5T, 723.01T, 764.51T.

Group II:
Education 742.2T, 722.01T, 724.01T.

Group III:
Education 716X, 721.01T, 726.1X, 731.3T, 751.2T, 784.2X, 792.2X, 792.4X, English 779X, Education 796X/Theater 741X, Education 799.5X.

Students pass a written comprehensive examination. Information about the comprehensive examination is in the chapter “Academic Regulations and Procedures.”

Courses in the English Department and the School of Education offered toward the degree must be 700-level courses.

Students pursuing an M.A. English Teacher must have taken or must take courses that meet the New York State and NCTE English standards. Transcript review will determine what appropriate course work students must take.

CUNY Ph.D.

The City University of New York offers a doctoral program in English. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” English Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the English Department and the executive officer of the doctoral program.
Courses

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

Candidates for a master's degree in another department may take courses in English on the 700 level with permission of the deputy chairperson of the English Department.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

Language and literature

600X Advanced Composition Workshop for ESL Graduate Students
30 hours plus conference; 3 credits
Intensive study of and practice in writing English at the advanced level of ESL to increase students' abilities to write well-organized and well-developed essays, research papers, analyses, and/or theses in clear, fluent language. Includes individual and group work. The course may be repeated with the instructor's permission. Open to graduate students from all departments. Prerequisite: open to non-native speakers.

700X Introduction to Literary Research
30 hours plus conference; 3 credits
Introduction to methods of research and scholarly procedure as preparation for the M.A. Thesis. Topics include: building a bibliography, using print and on-line research sources; incorporating secondary critical resources; and the varieties of criticism practiced in recent decades. The final assignment is to produce a thesis proposal.

700.1X Literary Texts and Critical Methods
30 hours plus conference; 3 credits
Reading and analysis of several genres of literature from several historical periods. Introduction to practical criticism, bibliographical methods, and literary criticism as a genre. Analysis of representative texts and critical approaches.

701X History of the English Language
30 hours plus conference; 3 credits
The origins of the English language. Its development to the present.

702X Structure of Modern English
30 hours plus conference; 3 credits
Description of modern English based on modern linguistic theory. Comparison of traditional grammar with more recent grammars. Relation of written language to spoken language usage. (Not open to students who have completed English 725X.)

702.6X Introduction to Linguistics
30 hours plus conference; 3 credits
Introduction to phonology, morphology, syntax, semantics. Current problems in linguistic theory and methodology. (Not open to students who have completed English 726X.)

703X Language, Culture, and Society
30 hours plus conference; 3 credits
Examination of the various formulations of the interconnections among language, culture, and society. Focus on the interplay of language, society, and power with particular attention to issues of linguistic diversity based on gender and race, and to issues of multilingualism in education. Readings from the fields of linguistics, linguistic anthropology, philosophy, and literary theory. This course is the same as Liberal Studies 720X. Prerequisite: none.

705X The Canterbury Tales
30 hours plus conference; 3 credits
Literary and linguistic analysis of the stories in Chaucer's final work.

706X Chaucer's Work Exclusive of The Canterbury Tales
30 hours plus conference; 3 credits

708X Literature of the Middle Ages
30 hours plus conference; 3 credits
Selected literary works drawn primarily but not exclusively from British and other European literatures, 700–1500. (Not open to students who have completed English 718X.)

710X Literature and Folklore
30 hours plus conference; 3 credits
Significant folk tale patterns and themes as they occur in diverse cultures and literatures.

715X Children's and Adolescents' Literature
30 hours plus conference; 3 credits
Survey of literature written for children from preschool through adolescence; consideration of related issues such as developing approaches that will promote critical reading and thinking and selecting literature that is appropriate in our multicultural society.

721X Early Modern Literature
30 hours plus conference; 3 credits
Selected works in prose and verse drawn primarily but not exclusively from British and other European literatures of the sixteenth and seventeenth centuries.
724X Milton
30 hours plus conference; 3 credits
Critical study of Milton's lyric, epic, dramatic poems.

731X Literature of the Long Eighteenth Century
30 hours plus conference; 3 credits
Reading and analysis of major works, exclusive of the novel, drawn primarily but not exclusively from British and other European literatures produced 1660 to 1800.

741X Nineteenth-Century Literature I
30 hours plus conference; 3 credits
Selected literary works of the first half of the nineteenth century drawn primarily but not exclusively from British and other European literatures.

742X Nineteenth-Century Literature II
30 hours plus conference; 3 credits
Selected literary works of the second half of the nineteenth century drawn primarily but not exclusively from British and other European literatures.

749.1X American Literature of the Nineteenth Century I
30 hours plus conference; 3 credits
Literature primarily but not exclusively of the United States, up to 1865. (Not open to students who have completed English 749X.)

749.2X American Literature of the Nineteenth Century II
30 hours plus conference; 3 credits
Literature primarily but not exclusively of the United States, after 1860. (Not open to students who have completed English 749X.)

750X American Poetry of the Twentieth Century
30 hours plus conference; 3 credits
Major tendencies of the period as exemplified in the poetry and criticism.

750.9X Poetry of the Twentieth Century
30 hours plus conference; 3 credits
Characteristic works of major authors drawn primarily but not exclusively from British and other European literatures. (Not open to students who have completed English 759X.)

751X The Novel in the Eighteenth Century
30 hours plus conference; 3 credits
Selected novels drawn primarily but not exclusively from British and other European literatures.

752X The Novel in the Nineteenth Century
30 hours plus conference; 3 credits
Selected novels of the nineteenth century drawn primarily but not exclusively from British and other European literatures.

753.1X Twentieth-Century American Fiction
30 hours plus conference; 3 credits
Selected short stories, novellas, and novels with focus primarily but not exclusively on fiction of the United States.

753.2X Twentieth-Century Fiction
30 hours plus conference; 3 credits
Selected short stories, novellas, and novels with focus primarily but not exclusively on fiction of Britain and other European countries.

753.3 The Craft of Fiction
30 hours plus conference; 3 credits
Aspects of the craft of writing the novel from the perspective of a writer of fiction; topics include voice, tone, time, structure, character development, plotting, and ending. Prerequisite: matriculation in the creative writing program with a concentration in fiction or permission of the deputy chairperson.

757X Modern Irish Literature
30 hours plus conference; 3 credits
Major Irish writers from 1885 to the present, including Yeats, Synge, Joyce, O'Casey.

760X Early Modern Drama
Exclusive of Shakespeare
30 hours plus conference; 3 credits
Selected works drawn primarily but not exclusively from British and other European dramas, 1450 to 1660. (Not open to students who have completed English 716X.)

761X Shakespeare
30 hours plus conference; 3 credits
Problems of interpretation in relation to selected comedies, histories, tragedies. (Not open to students who have completed English 736X.)

763X Twentieth-Century Drama
30 hours plus conference; 3 credits
Selected works primarily but not exclusively by modern and postmodern American and British and other European playwrights. (Not open to students who have completed English 758X.)

775X Introduction to Critical Theory
30 hours plus conference; 3 credits
A general introduction to such major contemporary critical theories as structuralism, new criticism, Marxism, feminism, queer studies, poststructuralism, and postcolonialism.
Feminist Literary Theory

30 hours plus conference; 3 credits
The relations between women and literature; the development of feminist thought and its impact on literature and literary theory; definitions of feminist literary theory by contemporary writers.

Literature and Society

30 hours plus conference; 3 credits
Social factors conditioning the composition and enjoyment of literature. The place of literature (oral or written) as an institution in several historical periods or cultures.

Literature and Psychoanalytic Criticism: Theory and Practice

30 hours plus conference; 3 credits
A survey of theories in psychoanalytic criticism and an application of such theories in detailed analyses of selected literary works. Freudian, Jungian, and other psychoanalytic orientations discussed.

Postcolonial Literature and Theory

30 hours plus conference; 3 credits
Literary and philosophical responses to European colonialism and its aftermath. Readings are drawn from around the world to suggest the global character of the postcolonial condition.

Theories of College-level English Composition

30 hours plus conference; 3 credits
Theory and practice of teaching basic writing and English composition at the college level, and such related issues as evaluation, testing, invention, and rhetorical forms.

Advanced Theories and Practice of Composition

30 hours plus conference; 3 credits
Theory and practice of teaching writing at the secondary level (grades 7–12), and such related issues as revision, evaluation, and teaching writing to English language learners. This course is the same as Education 792.4X.

Assessment of Second Language Learners

30 hours plus conference; 3 credits
Assessment of English language learners, including those with special needs. Emphasis on qualitative and quantitative procedures. Examination of major language instruments for all ages and proficiency levels, development of self-made language tests and informal assessment techniques, and practical reflection on linking language assessment to instruction. Consideration of linguistic, cultural, and socioeconomic background in modifying and adapting testing procedures. Applications to educational and community settings. This course is the same as Education 792.4X.

Introduction to Second Language Acquisition and English Language Learning

30 hours plus conference; 3 credits
Survey of second language acquisition theory and research as it relates to teaching English as a second language. The influence of speech and language disorders. Application of recent research findings in child first and second language acquisition, language topology, universal grammar and parameters, various models of second language acquisition, instructed second language learning, the critical period hypothesis, the social context, and other influences on second language acquisition. Data collection analysis. This course is the same as Education 798X and Speech 735X.

Prerequisite: English 702.6X or a course in normal language acquisition or permission of the deputy chairperson.

ESL Approaches across the Content Areas (7–12)

30 hours lecture plus 25 hours field experience and conference; 3 credits
Methods and materials for teaching English as a second language in secondary classrooms. Integrated approaches and strategies for instruction through the content areas, including social studies, mathematics, and science. Field experience in schools at the 7–12 level required. Includes approaches for students with special developmental and educational needs. This course is the same as Education 761.49T.

Prerequisite: English 702X.

Thesis Project

30 hours plus conference; 3 credits
An extensive research project normally based on the thesis proposal developed in English 700X, which is supervised by a member of the faculty, and which leads to submission of a master's thesis. Students may receive credit for this course only after approval of the completed thesis.

Prerequisite: completion of English 700X; approval of the graduate deputy chairperson.

Seminar in Textual Analysis

30 hours plus conference; 3 credits each term
Intensive study in selected texts. Selection of authors varies from year to year at the discretion of the instructor. Seminars are offered as follows: 791X, area 1; 792X, area 2; 793X, area 3; 794X, area 4; 795X, area 5; 795.6X, area 6; 795.7X, area 7. With the permission of the graduate deputy, students may take a seminar in the same area twice if the topics are different.

Creative writing

Fiction Workshop

30 hours plus conference; 3 credits
Detailed examination in seminars of stories or segments of novels written by class members. This course may be taken four times, but not more than once in any semester. (A student may not receive more than 12 credits for any
combination of the following courses: English 782X, 782.1X, 782.2X, 782.3X.

Prerequisite: matriculation in the creative writing program with a concentration in fiction or permission of the deputy chairperson.

**783X Poetry Workshop**
30 hours plus conference; 3 credits
Detailed examination in seminars of poems written by class members. This course may be taken four times, but not more than once in any semester. (A student may not receive more than 12 credits for any combination of the following courses: English 783X, 783.1X, 783.2X, 783.3X.)

Prerequisite: matriculation in the creative writing program with a concentration in poetry or permission of the deputy chairperson.

**784X Playwriting Workshop**
30 hours plus conference; 3 credits
Detailed examination in seminars of scenes or plays written by class members and selections from contemporary dramatic literature. This course may be taken four times, but not more than once in any semester. (A student may not receive more than 12 credits for any combination of the following courses: English 784X, 784.1X, 784.2X, 784.3X.)

Prerequisite: matriculation in the creative writing program with a concentration in playwriting or permission of the deputy chairperson.

**796X Fiction Tutorial**
Hours to be arranged; 3 credits
Intensive examination of the student's writing. Advice on the preparation of a substantial manuscript in publishable form. This course may be taken four times, but not more than once in any semester. (A student may not receive more than 12 credits for any combination of the following courses: English 796X, 796.1X, 796.2X, 796.3X.)

Prerequisite: matriculation in the creative writing program with a concentration in fiction or permission of the deputy chairperson.

**797X Poetry Tutorial**
Hours to be arranged; 3 credits
Intensive examination of the student's writing. Advice on the preparation of a substantial manuscript in publishable form. This course may be taken four times, but not more than once in any semester. (A student may not receive more than 12 credits for any combination of the following courses: English 797X, 797.1X, 797.2X, 797.3X.)

Prerequisite: matriculation in the creative writing program with a concentration in poetry or permission of the deputy chairperson.

**798X Playwriting Tutorial**
Hours to be arranged; 3 credits
Intensive examination of the student's writing. Advice on the preparation of a substantial manuscript in producible and/or publishable form. This course may be taken four times, but not more than once in any semester. (A student may not receive more than 12 credits for any combination of the following courses: English 798X, 798.1X, 798.2X, 798.3X.)

Prerequisite: matriculation in the creative writing program with a concentration in playwriting or permission of the deputy chairperson.

**799X Group Literature Tutorial**
30 hours plus conference; 3 credits
Advanced textual analysis of selected literary works and creative writing related to these works and to the M.F.A. project. The course will substitute for one of the four literature courses required for the M.F.A. degree. Weekly course meetings and individual tutoring.

**799.1X Group Fiction Tutorial**
30 hours plus conference; 3 credits
Advanced textual analysis of selected literary works; creative writing related to these works. Weekly course meetings for first-semester students enrolled in the M.F.A. fiction concentration. This course may be taken two times in the first year but not more than once in any semester.

Prerequisite: matriculation in the creative writing program with a concentration in fiction or permission of the deputy chairperson.

**Comparative Literature**

**706.1X Studies in Literary Periods**
30 hours plus conference; 3 credits
A single period, chosen from classical antiquity to the twentieth century, is studied intensively. The topic is announced each term.

**707.1X Studies in Literary Genres**
30 hours plus conference; 3 credits
Theory or history of a single literary genre, such as the epic, the drama, the lyric, the novel, is studied intensively. The topic is announced each term.

**708.1X Studies in Special Authors**
30 hours plus conference; 3 credits
An individual author in his or her international context. The author is announced each term.
The M.A. program in geology offers advanced instruction and research experience in a wide array of subjects in earth and environmental sciences. Depending on the interests of the student, the degree program can include lectures, laboratory work, field work, seminars, and teaching. Thesis research may be conducted in such areas as classical geology, including petrology, sedimentology, geochemistry, and paleontology; geotechnology, including GIS and remote sensing; and environmental science, including groundwater hydrology, environmental chemistry, and aquatic pollution.

The M.A. degree prepares students for employment in university-based laboratories, in environmental and geological consulting companies, in such governmental regulatory agencies as the EPA, NYDOE, and NPS, in state and federal survey departments, and in urban planning agencies. It also provides masters-level research training for earth science teachers. Our M.A. degree prepares students to pursue a doctoral degree at the Graduate Center of the City University of New York or at another university of their choice, and to teach and research at the college and university level.

Matriculation requirements
Applicants must offer an undergraduate major in geology, or a related field, completed with a grade point average of 3.00 (B) or higher.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.” Within twelve months of matriculation, the student must pass a qualifying examination given by the department. Details regarding the examination may be obtained from the department.

Degree requirements
Thirty credits in courses in geology are required for the degree. With permission of the geology graduate committee, pertinent courses in other science departments may be included in the 30 credits.

Students must choose one of the following options:
1. Students must submit a thesis acceptable to the department and orally present and defend it. A maximum of 3 credits in the series Geology 795.1G-795.3G may be counted toward the degree.
2. Students must pass a comprehensive examination and submit a research paper acceptable to the department. Information on the research paper is available in the department office.

In exceptional cases, the graduate geology committee may waive required courses or prerequisites.

Information about requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.” Courses in the Geology Department offered toward the degree must be 700-level courses.

The program of study must be approved by the department graduate committee.

Assistantships
Some assistantships in teaching and research are available to qualified students. Inquiry should be made of the chairperson.

CUNY Ph.D.
The City University of New York offers a doctoral program in earth and environmental sciences, in which the Geology Department participates. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Geology Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Geology Department and the executive officer of the doctoral program.

Honor Society
Sigma Xi, the Scientific Research Society, encourages original investigation in the natural sciences, pure and applied. The fields of activity of the society include the physical sciences, the life sciences, the earth sciences, and mathematics. The Brooklyn College Chapter elects students to associate membership in the society on the basis of academic excellence and marked aptitude for research in one of the fields listed above.

Courses
Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.
604T Meteorology
5 hours; 3 credits
An introduction to weather and its causes: Earth's atmosphere and energy budget; humidity and precipitation; clouds; air pressure, and wind; storms and hurricanes; weather forecasting. Climate change predictions considered from geological and historical perspective. (Not open to students who have completed Geology 33 or 33.2 or the equivalent.)
Prerequisite: Geology 607T.

606T Geology of the National Parks
45 hours; 3 credits
Geologic landscape features of the national parks of the United States; geologic history and geological processes of landscape formation; role of parklands in modern society; national parks as recreation reserves, habitat preserves, and national geological laboratories. Areas covered in the course include parks such as Grand Canyon,Yellowstone,Yosemite, Glacier,Virgin Islands, Badlands, Shenandoah, Everglades, Acadia, and Voyageurs.

607T Earth Science I
30 hours lecture, 30 hours laboratory and discussion; 3 credits
Stars and the solar system, description and motions of the earth in space, earth-moon system. Structure of the atmosphere. Weather elements and observations. Properties of the oceans. Internal structure of the earth: earthquakes, igneous activity. Laboratory work includes trip to the Rose Center for Earth and Space. (Not open to students who have completed a course in the physical world or principles of physical geography or historical geology or earth science.)
Prerequisite: two terms of general physics and two terms of general chemistry.

608T Earth Science II
30 hours lecture, 30 hours laboratory and discussion; 3 credits
Prerequisite: Geology 607T or permission of the chairperson.

610T Geology of New York City with Field Studies
15 hours lecture, 60 hours laboratory/field; 3 credits
Principles of the geologic record, geologic history of New York City and neighboring areas; rock formations, structures, age, glaciation, and other related features; laboratory study of rocks, fossils, and structures of the region; field trips, mostly on weekends, to various locations in and around New York City; environmental considerations.

611T The History of Life
45 hours; 3 credits
The history of life on earth as evidenced by fossils; origin and evolution of early life forms; the oxygen revolution; rise of animals and diversification of life; origin of vertebrates; conquest of land; dinosaurs and the reptile zenith; birds; origin and diversification of mammals; primates and human ancestry; mass extinction and the future.

612T Earth Sciences: Planetology—The Earth Perspective
30 hours lecture, 30 hours laboratory; 3 credits
Solar system; planetary bodies, their sizes, compositions, and interiors; meteorites, Sun-Earth-Moon relations; planetary environments; surface processes; heat balances and climates; earth's climatic and environmental conditions.

613T Earth Science and the New York City Urban Environment
45 hours lecture, 4 field trips; 3 credits
Investigation of five guiding questions regarding the connections between geology and New York City: On what is the city built? Of what is the city built? How has the New York City environment changed? Why did the metropolis develop here? What environmental hazards does New York City face? Mandatory weekend field trips within Manhattan and Brooklyn.

630T Global Environmental Change
45 hours lecture; 3 credits
Natural global cycles of water, carbon, nitrogen, phosphorus, and sulfur; biogeochemical changes in terrestrial ecosystems, freshwater wetlands, lakes, rivers, estuaries, and oceans; global climatic changes including global warming; anthropogenic aspects of global environmental change.

640T Geology through Global Arts and Artifacts
22 1/2 hours lecture, 45 hours lab; 3 credits
Inquiry approach to formation and properties of minerals, rocks, and metals. Investigation of real-world applications of earth materials including those at the Metropolitan Museum of Art and other institutions in the New York City area. Laboratory work will include a minimum of 3 weekend field trips to cultural institutions.

641T New York City Water Sources and Cycles
22 1/2 hours lecture, 45 hours lab; 3 credits
Principles of hydrology and hydrogeology with emphasis on the New York City region; history of NYC water supply; water quality; water treatment; water budgets and cycles; precipitation and storms; several weekend field trips required, including Prospect Park and Jamaica Bay.
642T Geology of New York State
22 1/2 hours lecture, 45 hours lab; 3 credits
Field-based approach to geological history of New York State; Grenville Orogeny, Lower Paleozoic strata and the Taconic Orogeny, Catskill delta and the Acadian Orogeny, Mesozoic rift basins; 6 days of field trips across New York State, including overnights.
Prerequisite: a minimum of 6 credits in geology.

690T Seminars in Geology
3 hours lecture; 3 credits
Series of seven selected topics in geology offered in public lectures in venues within New York City. Classroom-based discussion of each topic in the week following each lecture.
Prerequisite: Geology 607T and 608T.

705G Earth's Internal Processes
30 hours lecture; 30 hours laboratory; 3 credits
Processes driven by the Earth's internal heat. The structure, composition, and dynamics of the Earth's crust, mantle, and core; the methods and reasoning by which these have been deduced; causal mechanism for plate tectonics.

706G Earth's Surface Processes
30 hours lecture; 30 hours laboratory; 3 credits
Composition and dynamics of the hydrosphere and atmosphere; physical and chemical weathering; origin and evolution of land forms; human interaction with surface processes.

714G Geophysics
45 hours lecture or seminar; 3 credits

730G Paleontology of Invertebrates
30 hours lecture, 15 hours seminar, 30 hours laboratory; 4 credits
Advanced treatment of the functional morphology, systematics, evolutionary history, paleoecology of invertebrate animals through geologic time. Laboratory techniques in the use of fossils as primary data of organic evolution and as indicators of paleoenvironments. (This course is also open to qualified graduate students in biology.)

740G Sedimentology
30 hours lecture, 45 hours laboratory; 3 credits

742G Stratigraphy
30 hours lecture, 30 hours laboratory; 3 credits
Principles of stratigraphy. Stratigraphic record and nomenclature. Faunal stratigraphy and correlation. Systematic stratigraphy of North America: Pre-Cambrian problems; geosynclinal, cratonal, nonmarine sedimentation of the Paleozoic era; Mesozoic and Cenozoic stratigraphy; paleontological aspects.

747G Groundwater Hydrogeology
30 hours lecture, 60 hours laboratory; 4 credits
Physical, geochemical, and geologic aspects of groundwater hydrogeology; groundwater occurrence; resource management; groundwater contamination and environmental problems. Laboratory work includes field trips, computer models, and case studies.

769G Geochemistry of Soils
45 hours; 3 credits
An examination of the physical chemistry of soils including soil mineralogy (formation, relative stability, ion exchange properties) and surface chemistry.

770G Principles of Geochemistry
45 hours; 3 credits
Chemical processes involved in the development of the earth and the distribution of the elements in the earth's crust, atmosphere, and ocean.

771G Geochemistry
30 hours lecture, 60 hours laboratory; 4 credits
Origin of the elements; age determination; implications of isotope ratio variations. Brief survey of some aspects of the chemistry of the atmosphere, hydrosphere, lithosphere. Laboratory experiments in counting, tracer, activation analysis techniques. This course is the same as Chemistry 741G.

773G Low Temperature Geochemistry
45 hours; 3 credits
Chemical equilibria in aqueous systems and at low temperature. Natural processes controlling the composition of streams, lakes, the ocean, and near-surface groundwaters; impact of biological systems and human activities. Water in the geological cycle, applications to weathering, sedimentary processes, diagenesis, and ore formation. Prerequisite: Geology 770G or permission of the chairperson.

790.2G Seminar
30 hours each term; 2 credits each term
Selected aspects of geology. Areas not directly covered in regular courses. Use of original sources. Students may take multiple sections of Geo 790.2 and 790.3 with different topics up to a maximum of 6 credits.
Prerequisite: 10 credits in graduate courses in geology and permission of the chairperson.
790.3G Seminar
45 hours each term; 3 credits each term
Selected aspects of geology. Areas not directly covered in regular courses. Use of original sources. Students may take multiple sections of Geo 790.2 and 790.3 with different topics up to a maximum of 6 credits.
Prerequisite: 10 credits in graduate courses in geology and permission of the chairperson.

795.1G Thesis Research
Hours to be arranged; 1 credit
Research for master's thesis supervised by a faculty member. No more than 3 credits in Geology 795.1G-795.3G may be counted toward the degree. Credit is not earned until the thesis is accepted.
Prerequisite: permission of the chairperson.

795.2G Thesis Research
Hours to be arranged; 2 credits
Research for master's thesis supervised by a faculty member. No more than 3 credits in Geology 795.1G-795.3G may be counted toward the degree. Credit is not earned until the thesis is accepted.
Prerequisite: permission of the chairperson.

795.3G Thesis Research
Hours to be arranged; 3 credits
Research for master's thesis supervised by a faculty member. No more than 3 credits in Geology 795.1G-795.3G may be counted toward the degree. Credit is not earned until the thesis is accepted.
Prerequisite: permission of the chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

710G Structural Geology
711G Rock Mechanics
712G Geotectonics
718G Field Geology
721G Industrial Mineralogy
722G X-ray Diffraction Analysis
723G Advanced Research Methods in Geology
724G Igneous Petrology
726G Metamorphic Petrology
732G Paleogeology
743G Sedimentary Petrology
744G World Stratigraphy
748G Contaminant Hydrogeology
749G Well Hydraulics
752G Map Interpretation
753G Photogeology
754G Pleistocene Geology
759G Global Biogeochemical Change
760G Natural Resources: Metallic Ores
761G Natural Resources: Non-Metallic Ores
762G Ore Microscopy
763G Natural Resources: Uranium
764G Natural Resources: Geothermal Energy
765G Mineral Exploration and Economic Feasibility
766G Geological Application of Remote Sensing
772G High Temperature Geochemistry
774G Physical Geochemistry
775G Marine Geology
776G Marine Geochemistry
777G Quantitative Treatment of Geological Data
785G Natural Resources: Petroleum
786G Natural Resources: Coal
789G Physical and Chemical Evolution of the Terrestrial Planets
Health and Nutrition Sciences
Office: 4123 Ingersoll Hall
Telephone: 951-5026, 951-5027, 951-5028
Chairperson: Janet K. Grommet
Deputy Chairperson, Division of Graduate Studies:
Kathleen V. Axen (Nutrition); Jean Grassman (Health)
Professors: Axen, Balk, Greene, Jacobson, Levin, O ppenheimer;
Associate Professors: Antioniello, Eastwood, Grassman,
Greenberg, Grommet, Hauck-Lawson, Lewandowski,
McC hnesey, Padgug, Schnoll, Sirota, Weston;
Assistant Professors: Grov, Koizumi, Roud er.

M.P.H. in community health
HEGIS code 1214; SED program code 21578
This program, accredited by the Council on Education for Public Health, provides graduate-level training for students interested in pursuing or in advancing careers in public health. Successful applicants to the M.P.H. program include health professionals and recent college graduates. The program offers two concentrations, a general public health track or a more specialized health policy and administration track. The degree offers both classroom and internship experiences and provides the opportunity for students to work closely with a faculty mentor. By offering all classes in the evenings in Brooklyn and Manhattan, the program is geared to the needs of working adults. Graduates of the program are employed as managers, administrators, researchers, and planners in hospitals, not-for-profit agencies, community programs, departments of health, and state and national health organizations.

Matriculation requirements
Applicants must offer at least 18 undergraduate credits in acceptable health or related courses, a GPA in the major of at least 3.00, and a minimum 2.85 overall GPA or a minimum 3.00 GPA in health and nutrition sciences courses taken as a nonmatriculated student. Applicants must have experience in a health-related field and must submit a statement of academic interests and goals. Applicants also must submit results of the Graduate Record Examination or equivalent standardized professional admission examination. An interview may be required. Substitutions or a waiver of some requirements may be made in specific circumstances.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Forty-six credits are required for the degree.

Students must complete Health and Nutrition Sciences 740X, 761X, 764.4X, 764.8X, 770X, 771X, 776X, 778.1X, 791.1X.

Students must receive a grade of at least B in each of these nine core courses; courses may be repeated if necessary.

In addition, students must complete one of the following three concentrations of study:

Public health concentration: Students in this concentration must choose their remaining courses from courses numbered Health and Nutrition Sciences 700X and above unless they receive permission from the deputy chairperson to substitute a specific course. With permission of the Graduate Deputy, students may take courses from other Brooklyn College departments or other CUNY Public Health or Graduate Center Programs.

Health care management concentration: All of the following: Health and Nutrition Sciences 772.2X, 772.3X, 772.5X, 775.1X, and electives from courses numbered Health and Nutrition Sciences 700X and above.

Health care policy and administration concentration (offered in cooperation with the Department of Political Science):
Health and Nutrition Sciences 772.2X and 772.4X.

Students in the health care policy and administration concentration must choose their remaining courses from the following list unless they receive permission from the deputy chairperson to substitute specific courses:

Health and Nutrition Sciences 767X, 772.3X, 772.5X, 773X, 777X, 781X, 782X;

Students with advanced preparation may substitute other courses for required courses with the permission of the department graduate committee.

In addition, students must submit either an acceptable thesis or an acceptable master’s paper.

Students electing to submit a thesis must complete Health and Nutrition Sciences 791.2X and 780X. Information about the thesis is in the section “Academic Regulations and Procedures.”

Students electing to complete a master’s paper must complete Health and Nutrition Sciences 791.3X with a grade of B or better, and then one of the courses numbered 797.1X through 797.9X in which the master’s paper will be written.

The student must earn a grade of B or better for a master’s paper to be acceptable. The student may not take 791.3X more than twice.

Courses in the Health and Nutrition Sciences Department offered toward the degree must be 700-level courses.

M.A. in community health
HEGIS code 1214; SED program code 78495
The master of arts degree in community health serves both national and international students who are pursing a career in health promotion/disease prevention. Many of our graduate students are in practice in the field and come to Brooklyn College for advanced training and professional development.

The program has two concentrations: community health education and thanatology. The community health education concentration develops professionals who design, conduct,
and evaluate activities that help improve the health of individuals and communities. Graduates typically find employment in public health departments, community-based organizations, hospitals, and clinics as patient educators, health education teachers, health coaches, community organizers, public health educators, and health program managers.

The thanatology concentration focuses on the development of expertise in the area of dying, death, and bereavement. Graduates hold a variety of positions including that of hospice program director, hospital bereavement coordinator, hospice volunteer coordinator, funeral aftercare counselor, and bereavement counseling program director.

**Matriculation requirements**

Applicants must offer at least 18 credits in acceptable health-related courses. Experience in a health-related field is required for the Thanatology concentration.

A course in statistics in a health-related field is required for the Community Health Education concentration.

The department may interview applicants for admission.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**

Thirty-six credits are required for the degree.

Students must complete one of the following two concentrations of study: Community Health Education (36 credits) or Thanatology (33 credits).


Elective courses (9 credits): Students must complete 9 credits chosen from 700-level courses after consultation with the deputy chairperson.

Thanatology concentration. Students must take 24 credits from the following:

- Health and Nutrition Sciences 744.5X, 754X, 760X, 762X, 773X, 774.5X, 784.5X, 791.1X.

Students with advanced preparation may substitute other courses for required courses with the permission of the department graduate committee.

Exit requirements. Students matriculated in the community health education concentration are required to pass a comprehensive examination administered by the Health and Nutrition Sciences Department, or submit an acceptable master's thesis or master's paper. Students electing to complete a comprehensive examination must complete 36 credits.

Students matriculated in the thanatology concentration are required to submit either an acceptable thesis or an acceptable master's paper.

Students electing to submit a thesis must complete Health and Nutrition Sciences 780X and 791.2X. Information about the thesis is in the section “Academic Regulations and Procedures.” Students electing to complete a master's paper must complete Health and Nutrition Sciences 791.3X with a grade of B or better, and then one of the courses numbered 797.1X through 797.9X in which the master's paper will be written.

The grade for the course will be the same as the grade for the master's paper. The student must earn a grade of B or better for a master's paper to be acceptable. The student is not allowed to take 791.3X more than twice, and may only take one of the courses numbered 797.1X through 797.9X.

Courses in the Health and Nutrition Sciences Department offered toward the degree must be 700-level courses.

The program of study must be approved by the department.

Students interested in certification as a death educator (CDE) or grief counselor (CGC) may use the Health and Nutrition Sciences internship program that partially fulfills the requirements of the National Certification Board of the Association for Death Education and Counseling.

Community Health Education students interested in national certification as a Certified Health Education Specialist (CHES) may take the examination administered by the National Commission for Health Education Credentialing, Inc.

**M.S. in nutrition**

**HEGIS code 1306; SED program code 86173**

The master of science degree in nutrition provides advanced-level study of nutritional science and clinical nutrition. The program is appropriate for individuals who wish to become registered dieticians, nutrition educators, administrators of programs that provide nutritional services in commercial or institutional settings, nutritionists in community centers or private practice, researchers, or interpreters of research for the public employed by industry, government, academia, or mass media. Students whose baccalaureate degrees are in fields other than nutrition may take specified undergraduate courses to fulfill the prerequisites for application to the program. Students who wish to become registered dieticians will have to satisfy the undergraduate and/or graduate course requirements of our Dietetic Internship program before making a separate application to it.

**Matriculation requirements**

Applicants must offer undergraduate or graduate courses in general biology, physiology, general chemistry, organic chemistry, nutrition, biochemistry or nutritional chemistry, statistics, and medical nutrition therapy.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**

Thirty to 39 credits are required for the degree.

Students must complete the following required core courses:

- Health and Nutrition Sciences 706X, 715X, 716X, 718.5X, and 791.1X. Students must receive a grade of at least B in
each of these courses or approval of the Graduate Deputy Chairperson for Nutrition in order to qualify for the comprehensive examination or thesis; courses may be repeated if necessary.

A minimum of 15 additional credits is required. Students may choose among the following courses: Health and Nutrition Sciences 705X, 706.5X, 709X, 712X, 713X, 713.1X, 713.5X, 714X, 716.1X, 717X, 719X, 720X, 721X, 749X, 762X, 771X, 777X, 779X.

Students interested in the Dietetic Internship (DI) accredited by the American Dietetic Association must take Health and Nutrition Sciences 716X, 716.1X, and two additional graduate courses in nutrition before beginning the DI. The DI consists of Health and Nutrition Sciences 720X, 721X, 722.1X, and 722.2X. Separate applications must be made to the DI and to the M.S. program in nutrition.

Students must pass a comprehensive examination or submit a thesis acceptable to the department. Students who choose to write a thesis must complete Health and Nutrition Sciences 780X. Information about the requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.”

**Dietetic Internships (DI)**
The American Dietetic Association accredited Dietetic Internship (DI) at Brooklyn College is a one-year part-time program that provides the supervised practice experience required to sit for the Registered Dietitian (R.D.) examination. Students must be enrolled in the M.S. in nutrition program to be eligible for the DI, and they must file a separate application for the DI. Application to the DI is through the American Dietetic Association’s matching program. Contact the DI program director, Roseanne Schnoll, for details. The program enables students to apply theory and research to practice in clinical, community, and food service settings, thereby enriching their education and preparing them to make significant contributions to and rapid advancement in the profession.

**M.S. in computer science and health science**
HEGIS code 0799; SED program code 86190
The master of science, computer science and health science program, offered in conjunction with the Department of Computer and Information Science, focuses on the use of technology in a wide range of health care and medical services. This program is currently not accepting new students.

**Matriculation requirements**
Applicants must offer at least 18 credits in undergraduate or graduate courses in health and nutrition sciences and/or health-related fields.

**Degree requirements**
Thirteen to 52 credits are required for the degree.

Students must complete courses in Group I and Group II.

**Group I:** All of the following: Computer and Information Science 601X, 604.1X, 615X, 622X; and Mathematics 607X and 652X.

Students with some background in computer and information science and statistics (either academic or professional) may apply to the Department of Computer and Information Science for waivers of specific courses. Normally, students with a strong undergraduate background in computer and information science will be exempt from all courses in Group I. Students exempt from Group I courses will not be required to take other courses to make up any specific number of credits.

**Group II:** All of the following:
1. One course chosen from Computer and Information Science 713X, 714X, 763X, 764X, and 765X;
2. Two courses chosen from Computer and Information Science 710X, 717.1X, and 757X;
3. One additional Computer and Information Science course numbered 700 or above;
4. Health and Nutrition Sciences 771X, 775.1X, and 791.1X;
5. One additional Health and Nutrition Sciences course numbered 700 or above;
6. Computer and Information Science 777X or Health and Nutrition Sciences 777X.
7. Students must also complete one of the following:
   a) Computer and Information Science 799.1G and 799.2G and a thesis acceptable to the Department of Computer and Information Science; or
   b) Health and Nutrition Sciences 780X and a thesis or project acceptable to the Department of Health and Nutrition Sciences; or
   c) Pass a written comprehensive examination.

**M.S. in Ed., health and nutrition sciences: health teacher (all grades)**
HEGIS code 0837; SED program code 27318
The master of science degree in education, health teacher program predominantly serves New York metropolitan area residents, many of whom are professionals practicing in the field of education and come to Brooklyn College for advanced training and professional growth and development. The majority of these students possess professional experience in health-related fields such as athletics, nutrition, and physical training. Graduates typically find or continue employment in public and private schools. The courses required by the School of Education vary depending on the entry qualifications of students. All students should consult with the School of Education for the current requirements.

**Matriculation requirements**
Applicants must offer 18 credits in courses in the health sciences or equivalent courses in other fields.

Applicants must also offer (a) or (b) or (c):
(a) New York State Initial Certification in Adolescence Education in teaching health for all grades;

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology, educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching health for all grades; 100 hours of fieldwork; 40 days or 300 hours of student teaching health for all grades, or one year of full-time teaching health for all grades; and submission of scores on the L.A.S.T.;

(c) an undergraduate degree with an appropriate major or appropriate course work (including introduction to health, human physiology, health counseling, health appraisal or the physiology of health and disease, occupational health or first aid, evaluation or statistics, human sexuality, health and human ecology or environmental health, and drugs and society); and submission of scores on the Liberal Arts and Science test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Department of Health and Nutrition Sciences.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

**Degree requirements**

A minimum of 30 credits is required for the degree.

Students must complete 18 credits in health sciences in the Department of Health and Nutrition Sciences. Health and Nutrition Sciences 747X and 791.1X are required.

Students must also complete 12 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching health must complete 9 credits in Group II and 3 credits in Group III below. Students who do not possess Initial Certification in teaching health or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching health must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below.

Students pursuing Initial Certification in teaching health must take Education 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master's degree but wish Initial Certification in teaching health must take appropriate courses in Group I and Group III below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

**Group I**

Education 742X, 792.1X, 763.16T, 764.5T, 723.16T, 764.51T.

**Group II**

Education 742.2T, 722.16T, 724.16T.

**Group III**

Education 716X, 721.16T, 726.1X, 731.3T, 751.2T, 751.1T, 784.2X, 792.2X.

Education 792.4X/English 779X, Education 796X/Theater 741, Education 799.5X.

Students must pass a comprehensive examination or submit a thesis acceptable to the Health and Nutrition Sciences Department. Students who choose to write a thesis must complete Health and Nutrition Sciences 780X. Information about requirements for the comprehensive examination and the thesis is in the section "Academic Regulations and Procedures." Courses offered toward the degree must be 700-level courses.

The program of study must be approved in the first semester by the chairperson or deputy chairperson of the Health and Nutrition Sciences Department and the head of adolescence education and special subjects in the School of Education.

**Advanced Certificate Program in Grief Counseling**

HEGIS code 2104.10; SED program code 30468

The advanced certificate in grief counseling presents foundational and advanced knowledge in the areas of bereavement, traumatic grief, and thanatological counseling. The program is designed to provide grief counseling training for individuals who have completed a baccalaureate degree and are working with, or interested in working with, the dying and the bereaved, or for individuals who have completed a master's degree and are seeking further training. In addition, the program will allow practitioners to meet professional continuing education requirements to maintain existing licenses or certifications. The program is designed to conform to the Association for Death Education and Counseling (ADEC) certification requirements for those persons interested in becoming certified or maintaining their certification in Thanatology: Death, Dying, and Bereavement.
Matriculation Requirements
This graduate certificate program provides grief counseling training for individuals who work with or who would like to work with the dying and the bereaved. It is designed to accommodate those who have completed a baccalaureate or a master's degree as well as for practitioners who must meet professional continuing education requirements to maintain existing licenses or certifications. The program adheres to the Association for Death Education and Counseling (ADEC) certification requirements for persons interested in becoming certified or maintaining certification in Thanatology: Death, Dying, and Bereavement.

Applicants must present a baccalaureate degree with at least a 3.00 GPA in the major and a minimum 2.85 overall GPA in 18 credits of acceptable health- or thanatology-related courses; courses in health and nutrition sciences, philosophy, psychology, sociology, biology, anthropology, chaplaincy, and counseling may meet this 18 credit matriculation requirement. Professional development courses offered by recognized associations may also be used to meet the requirement for health- or thanatology-related coursework. Applicants must have experience in a related field.

Certificate Requirements
Eighteen credits are required for the advanced certificate. Students must maintain a minimum grade point average of 3.00. No more than two courses with a grade below B may be offered toward the completion of the certification requirements.

Students must complete Health and Nutrition Sciences 704X, 744.5X, 774.5X. The remaining 9 credits are elective courses chosen in consultation with the program director from the following: Health and Nutrition Sciences 754X, 760X, 762X, 773X, 784.5X, 790.1X. Other elective graduate courses may be substituted with the approval of the program director.

All courses within the advanced certificate program are currently offered as part of the Brooklyn College Master of Arts in Community Health as well. Credits earned toward the certificate are applied to the master's degree for those certificate students who successfully apply to the master's program. In turn, master's students can obtain the advanced certificate in grief counseling.

Courses
Courses numbered 600–699 are intended for students who are candidates for degrees in other disciplines.

To register for courses numbered 700 and higher, students who offer fewer than 18 undergraduate credits in health and nutrition sciences must have permission of the deputy chairperson before registration.

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

660.1X Biological Basis for Healthful Living
30 hours plus conference; 3 credits
Information from biological and related physical sciences as a foundation for understanding the applied health sciences. Commonly held concepts and misconceptions in light of scientific principles. (Not open to students who have completed Health Science 660.1X.)

665T Health Sciences in Elementary School
30 hours plus conference; 3 credits
Health concepts. Relationships between well-being and learning. Special problems. Supplementary teaching materials and integration with other curriculum areas. (Not open to students who have completed Health Science 665T.)
Prerequisite: a course in personal and community health.

667X Drug Education in the School Curriculum
30 hours plus conference; 3 credits
Drug abuse. Responsibility of the teacher, principal, other school personnel in implementing drug abuse prevention programs. Related research summarized and evaluated. (Not open to students who have completed Health Science 667X.)
Prerequisite: a course in personal and community health.

704X Trauma and Traumatic Grief
30 hours plus conference; 3 credits
A study of trauma and traumatic grief. Evaluation of assessment tools, treatment modalities, and programs of prevention. Identification of the factors influencing the quality of care provided to a traumatized griever. Critique of trauma research study designs and findings.

705X Nutrition and World Food Problems
45 hours; 3 credits
National and international nutritional conditions. Government problems, issues, policies concerning nutritional status of individuals and population groups. Regulation of food production and distribution in developing countries.
Prerequisite: a course in nutrition or permission of the chairperson.

706X Community Nutrition
45 hours; 3 credits
Community and public health nutrition with focus on factors affecting food consumption of a community and nutritional problems of select groups. Consumption patterns, assessment techniques, intervention programs, and evaluation of programs (federal, state, and local).
Prerequisite: a course in human nutrition and a course in life cycle, developmental or geriatric nutrition, or permission of the chairperson.
706.5X Geriatric Nutrition
45 hours; 3 credits
Recent knowledge of nutrition and human aging. Special emphasis on interactions of physiological stages, age, lifestyle, health, disease, and nutrition. Examination of research findings focusing on the relationship of nutrition to the structural and functional changes associated with the aging process.
Prerequisite: a course in nutrition or permission of the chairperson.

709X Nutrition and Behavior
45 hours; 3 credits
Prerequisite: one course in psychology and a course in human nutrition and a course in physiology.

712X Cultural Aspects of Foods
45 hours; 3 credits
Foodways, the study of relationships of food and culture. Ethnic, geographic, economic, social, religious influences on food habits and practices of individuals and families.
Prerequisite: a course in food science or nutrition or permission of the chairperson.

713X Advanced Experimental Foods
15 hours lecture, 60 hours laboratory; 3 credits
Research techniques in food science and their application to the study of selected problems in food marketing, preparation, service, storage. Opportunity for students to conduct individual experimental projects.
Prerequisite: a minimum of 10 credits in courses in food science and nutrition and two laboratory courses in biology and/or chemistry or permission of the chairperson.

713.1X Recent Developments in Foods
45 hours; 3 credits
Review and evaluation of recent trends, issues, research in product development, food processing, distribution. Modern food technology, application, use.
Prerequisite: 6 credits in courses in foods or permission of the chairperson.

713.5X Organizational Management of Food
45 hours; 3 credits
Decision-making skills involved in the field of food service management. Application of management theories to control of food costs, work simplification techniques, and management accountability in the food service system.
Prerequisite: completion of the core requirements in the program in nutrition.

714X Recent Developments in Nutrition
45 hours; 3 credits
Critical examination of current literature and scientific research in nutrition. Impact of current nutritional developments relating to individual, family, and community well-being.
Prerequisite: a graduate course in nutrition and a course in physiology and a course in statistics or permission of the chairperson.

715X Nutritional Biochemistry
45 hours; 3 credits
Emphasis on homeostatic mechanisms and hormonal controls of intermediary metabolism on a cellular level. Select topics related to the metabolic diseases and inborn errors of metabolism.
Prerequisite: a course in advanced nutrition and a course in nutritional chemistry or biochemistry or permission of the chairperson.

716X Nutritional Aspects of Disease
45 hours; 3 credits
Changes in requirements and utilization of nutrients; nutritional status of the individual during pathological states. Disease, malnutrition, and environmental pollution assaults on nutrient metabolism. Methodology and interpretation of recent clinical nutrition research.
Prerequisite: a course in diet therapy or permission of the chairperson.

716.1X Assessment Techniques and Nutritional Care
45 hours; 3 credits
Study of the components of nutritional assessment as the initial step in nutrition care process. Emphasis on comparative analysis of dietary intake methods, interpretation of clinical laboratory values, evaluation of anthropometric and body composition methods, retrieval of medical history/physical examination data.
Prerequisite: a course in diet therapy.

718.5X Micronutrients
45 hours; 3 credits
Physiological regulation of metabolism of vitamins and minerals; effects of deficiencies and excesses.
Prerequisite: a course in nutrition and a course in biochemistry; or permission of the chairperson.

719X Developmental Nutrition
45 hours; 3 credits
Effects of nutritional factors on development from prenatal growth to adolescence. Topics include: placental transport of nutrients, causes of congenital defects, breast feeding vs. bottle feeding, factors affecting rate of growth and age at puberty, effects of nutritional deficiencies and excesses, and the relationship of nutrients to morphogenetic or biochemical processes.
Prerequisite: a course in advanced nutrition and a course in physiology.
720X Seminar in Nutritional Practice
30 hours plus conference; 3 credits
Concepts and methods essential to the work of a practicing nutritionist. Nutritional assessment, counseling, evaluation, management, instruction, organization, and health promotion techniques.
Prerequisite: completion of 12 graduate credits in courses in nutrition.
Corequisite: Health and Nutrition Sciences 722.1X.

721X Seminar in Clinical Applications of Nutrition Research
30 hours plus conference; 3 credits
The importance of the scientific literature in evaluating clinical techniques. Use and interpretation of this literature. Review of relevant research techniques. Examination of recent findings in topics of current clinical interest and their relation to clinical practice.
Prerequisite: completion of 12 graduate credits in courses in nutrition.
Corequisite: Health and Nutrition Sciences 722.2X.

722.1X Fieldwork in Dietetic Practice I
450 hours fieldwork; 3 credits
Supervised experience in medical nutritional therapy, food service management, and community nutrition. Activities and assignments developed by the college faculty. Application of nutritional concepts to individuals and groups. Design of diets, nutrition counseling, management of food services, provision of nutrition education in community service.
Prerequisite: completion of 12 graduate credits in courses in nutrition and acceptance into the department's Dietetic Internship.
Corequisite: Health and Nutrition Sciences 720X.

722.2X Fieldwork in Dietetic Practice II
450 hours fieldwork; 3 credits
A continuation of supervised fieldwork experience, specified activities, and assignments of Health and Nutrition Sciences 722.1X.
Prerequisite: Health and Nutrition Sciences 722.1X.
Corequisite: Health and Nutrition Sciences 721X.

740X Proseminar in Public Health
30 hours plus conference; 3 credits
Introduction to the field of public health through an examination of its theories, principles, methods, and history. Overview of national and international health and health services. Introduction to public health resources and written presentation of critical analysis. The professional discipline of public health. Ethical issues in public health.
Prerequisite: acceptance into the M.P.H. program

744.5X Bereavement
30 hours plus conference; 3 credits
Theoretical concepts of grief and bereavement. The impact of mourning on the bereavement process. Health implications of incomplete mourning and pathological bereavement. The role of the health care professional and related personnel in providing care. Research to improve care. (Not open to students who have completed Health and Nutrition Sciences 744X or 744X.)

747X The Family and Personality Development
45 hours; 3 credits
Influence of the family on the individual. Personality development and family interrelationships. Consideration of major problems of adjustment in each phase of the family life cycle. Fall term.
Prerequisite: a course in family relationships.

749X Aging: A Study of Needs and Services
45 hours; 3 credits
A study of the needs and services to the aged, emphasizing family relationships, food, nutrition, health, economic stability, and security.

754X Children and Death
30 hours plus conference; 3 credits
The child's concept of death. Typical childhood coping patterns in response to death of self, family member, friend. Needs of the terminally ill child, the family, and the caregiver. Alternative care settings. Available resources and supports for the health professional. (Not open to students who have completed Health Science 754X.)

755X Adolescents, Death, and Bereavement
45 hours; 3 credits

758X Foundations of Community Health Education
30 hours plus conference; 3 credits
Introduction to the community health education profession. Expectations of a professional, professional development, and overall mission of public health. Discussion of the theoretical basis for the community health education profession. Introduction to a community health education program planning and evaluation model.
759X Program Planning and Evaluation in Community Health Education
30 hours plus conference; 3 credits
Continued development and application of community health education program assessment, planning, implementation, and evaluation methods. Critique of existing community health education programs for promoting critical thinking and analytic skills.
Prerequisite: Health and Nutrition Sciences 758X.

760X Health Crisis Intervention
30 hours plus conference; 3 credits
Relationships among health, emotion, destructive behavior. Development of sensitivity to behavior patterns leading to destructive acts. Role of the health professional in understanding crisis situations. Agencies designed to assist in health crises. (Not open to students who have completed Health Science 760X.)
Prerequisite: Health Science 762X or a course in health counseling.

761X Social and Behavioral Sciences in Public Health
30 hours plus conference; 3 credits
Public health concepts and methods from social and behavioral sciences relevant to the identification and solution of public health problems. Physiological, sociological, psychological, and cultural factors as determinants of health status, attitudes, and behavior. (Not open to students who have completed Health Science 761X.)
Prerequisite: Health Science 761X.

762X Health Counseling
30 hours plus conference; 3 credits
Application of principles and methods of counseling to health problems. Case studies, identification of problems, techniques of interviewing. (Not open to students who have completed Health Science 762X.)
Prerequisite: a course in personal and community health.

764X Internship and Field Experience Seminar in Community Health
30 hours seminar and fieldwork plus conference; 3 credits
Supervised individual projects in community health education in a health agency. Weekly seminars.
Prerequisite: Health and Nutrition Sciences 758X and 759X, or permission of the graduate deputy.

764.4X Internship in Public Health
90 hours fieldwork plus conference; 3 credits
Supervised individual projects in public health practice. Weekly seminars.
Prerequisite: Health and Nutrition Sciences 740X or permission of graduate deputy.

764.5X Internship in Public Health II
150 hours; 3 credits
Supervised internship in a public health setting. Continuation of Health and Nutrition Sciences 764X.
Prerequisite: Health and Nutrition Sciences 764X and matriculation in the M.P.H. program and permission of the chairperson.

764.8X Seminar in Public Health Practices
45 hours seminar plus conference; 3 credits
Analysis of public health work settings. Each student is required to develop a public health practice portfolio. Student draws on internship experiences. Discussion of each student portfolio in progress.
Prerequisite: Health and Nutrition Sciences 764.4X.

767X Health Issues of the Urban Society
30 hours plus conference; 3 credits
The effect of poverty on the health behaviors of people living in urban and suburban areas. Analysis of current public health problems in the context of race, class, and gender. The effects of transnational migration on health. (Not open to students who have completed Health Science 767X.)
Prerequisite: Health and Nutrition Sciences 761X.

768X School and Community Health Programs
30 hours plus conference; 3 credits
Analysis of health needs and programs. Survey of services available to students and schools through public and volunteer agencies. Exploration of ways to improve use of facilities and community cooperation for greater protection and promotion of community health. (Not open to students who have completed Health Science 768X.)
Prerequisite: Health and Nutrition Sciences 761X.

769X Problems of Drugs in Contemporary Society
30 hours plus conference; 3 credits
Drug traffic. Community cooperation in preventing and treating drug abuse. Legal factors and crime relationships; physiological, psychological, sociological aspects of drug abuse. Guidelines for drug abuse prevention and programs. Resources to support such programs in schools and communities. Field trips. (Not open to students who have completed Health Science 769X.)

769.1X Colloquium on Drug Abuse in Schools
30 hours plus conference; 3 credits
Contemporary theories and practices related to establishing, organizing, administering, and evaluating meaningful drug abuse prevention programs in schools. Discussion of problems and exploration of the role of sensitivity training. Independent projects on drug abuse programs. (Not open to students who have completed Health Science 769.1X.)
769.2X Alcohol, Alcoholism, and Health
30 hours lecture plus conference; 3 credits
Examination of the effects of alcoholism on the United States health care system; the effects of alcohol on individual and community health. An analysis of etiology, treatment, and rehabilitation models. Issues with regard to prevention strategies and the influence of laws on alcohol abuse. (Not open to students who have completed Health Science 769.2X.)

770X Introduction to Health Policy and Administration
30 hours plus conference; 3 credits
Examination of the development of modern medical systems; description and discussion of the organization of the agencies and personnel constituting the health care system; the planning, administration, management, evaluation, and policy and analysis of health programs; investigation of the health legislative process and institutions that attempt to influence the process. Study of the principles and programs involved in the financing of health care services; critical analysis of current criticisms of the modus operandi of the health care system.

771X Epidemiology
30 hours plus conference; 3 credits
Principles and application of epidemiological analysis, illustrations of incidence, distribution, multiple determinants, and control of disease. Methods of investigation. Sources, presentation, and interpretation of data. (Not open to students who have completed Health Science 771X.)
Prerequisite: an introductory course in epidemiology or an equivalent course.

772.2X Planning, Strategic Analysis, and Organizing of Health Care Services
30 hours plus conference; 3 credits
Dilemmas resulting from the practice of the health sciences including clinical care, public health practice, human subjects research, and the delivery of health services and the development of health policies. Conflicting needs and values of the practitioners, clients, health care system, and communities. Critical evaluation of proposed solutions offered by the professions, government, communities. Case study evaluations. Examination of historic and contemporary cases.
Prerequisite: Health and Nutrition Sciences 770X

772.4X Health Policy and Administration in Public Health
30 hours seminar plus conference; 3 credits
Study of public health policy and its impact on health care service organization, administration, and delivery. Study of public policies that drive health care organization and delivery. Examples of special topics in public health policy such as Medicare and Medicaid development and changes. Administrative responses to policy shifts. Increasing complexity and frequent changes in law and regulation change how health care services are defined and delivered.
Prerequisite: Health and Nutrition Sciences 770X or its equivalent.

772.5X Health Economics
30 hours plus conference; 3 credits
Economic analysis of the structure, performance, and government policy in the health care sector of the economy. Demand and supply of health care services, the role of third party payers, and the public policy debate over government reform of the health care system. Microeconomic, econometric, and political philosophy concepts relevant to issues of justice in health care. This course is the same as Economics 772X.

773X Bioethics: Health and Medical Dilemmas
30 hours plus conference; 3 credits
Dilemmas resulting from the practice of the health sciences including clinical care, public health practice, human subjects research, and the delivery of health services and the development of health policies. Conflicting needs and values of the practitioners, clients, health care system, and communities. Critical evaluation of proposed solutions offered by the professions, government, communities. Case study evaluations. Examination of historic and contemporary cases.

774.5X The Health Care Provider and Thanatological Counseling
30 hours plus conference; 3 credits
Theory and practice of counseling the dying patient and the bereaved. Focus on personal skill development in anticipatory bereavement and postmortem bereavement counseling. Examination of group support, self-help, and individual intervention strategies. Research and evaluation of support programs and techniques. (Not open to students who have completed Health and Nutrition Sciences 774X.)

775.1X Human Resources Management in Health Care
30 hours plus conference; 3 credits
negotiations. (Not open to students who have completed Health and Nutrition Sciences 775X.)

Prerequisite: a course in health care management or appropriate employment in health care management.

776X Environmental Health in the Urban Community
30 hours plus conference; 3 credits

Major local and global environmental health hazards, their sources, effects, and control. Bases for city, state, and federal regulations. Formulation and analysis of environmental health policy. Nature and limitations of appropriate environmental information and data.

777X Computer Applications in Health Sciences
45 hours; 3 credits

Use of computer in health-related fields. Understanding unique theoretical and practical applications to health science research, education, and clinical practice. Course will include projects tailored to the interests of the individual students. This course is the same as Computer and Information Science 777X.

Prerequisite: one 700-level course in health and nutrition sciences and one 700-level course in computer and information science.

778.1X Evaluation in Health and Nutrition Sciences I
30 hours lecture, 30 hours laboratory, plus conference; 4 credits

Application of evaluation techniques for community health and nutritional professionals. Application of tools to evaluate health and nutritional status, knowledge, attitudes, and behavior for individuals and populations. Vital statistics. Use of computer programs to analyze and interpret health and nutrition data. (Not open to students who studied these subjects as a special topic in Health Science 792X or who have completed Health Science 778X.)

Prerequisite: Health and Nutrition Sciences 778.1X or permission of the chairperson.

778.2X Evaluation in Health and Nutrition Sciences II
30 hours lecture, 30 hours laboratory, plus conference; 4 credits

Application of evaluation techniques for community health and nutrition professionals. Design of tools to evaluate health and nutritional status, knowledge, attitudes, and behavior for individuals and populations. Multivariate techniques for assessment of health data including survival analysis, multiple regression, multivariate analysis of variance, discriminant analysis, logistic regression, and factor analysis. Use of computer programs to analyze and interpret health and nutrition data with these techniques.

Prerequisite: Health and Nutrition Sciences 778.1X or permission of the chairperson.

779X Nutrition and Exercise
30 hours plus conference; 3 credits

Exploration of human nutritional requirements of exercise; the significance of intermediary metabolic pathways and the effect of dietary manipulation on exercise performance. (This course is the same as PEES 779X.)

Prerequisite: a course in human or animal physiology and a course in exercise physiology or biochemistry.

780X Thesis Research
Hours to be arranged; 3 credits

Research for master's thesis supervised by a faculty member. Credit is not earned until the thesis is accepted. Students register for this course only once. (Not open to students who have completed Health Science 780X and Home Economics 783T.)

Prerequisite: permission of the deputy chairperson.

781X Law and Public Health
30 hours plus conference; 3 credits

An analysis of public health policy and legal thinking in the context of the U.S. legal system, and the roles of the branches of government in creating, administering, and enforcing the health laws. Examination of basic health law concepts and practices in the health industry. Concepts of institutional and individual responsibility. The focus is upon such areas as legal reasoning, sources of health laws, regulations, legal rights to health, standards, licensure, malpractice, and litigation.

782X International Health
30 hours plus conference; 3 credits

Comparative analysis of health problems in developing and developed nations. Exploration of social, cultural, political, and economic determinants of health in developing countries. Examination of the role of multilateral and bilateral assistance programs in influencing changes in health status in developing nations.

783X Occupational Health in the Health Care Industry
30 hours plus conference; 3 credits


784.5X Principles in the Care of the Terminally Ill
30 hours plus conference; 3 credits

Needs of the dying patient and family. Clinical approaches to care of terminally ill patients and their families. Role of the hospice as an alternative-care setting. Techniques of pain management and palliative care. The role of the health care professional and related personnel in providing care. (Not open to students who have completed Health and Nutrition Sciences 774X or 784X.)
790.1X Internship I
90 hours; 3 credits
Supervised internship in a health or nutrition counseling setting similar to that in which the student expects to work. Interns are expected to participate in the complete range of position-defined responsibilities and to be supervised jointly by certified counseling personnel and a faculty adviser from the Department of Health and Nutrition Sciences.
Prerequisite: completion of 27 graduate credits in courses in health and nutrition sciences, including Health and Nutrition Sciences 762X and one of the following: Health and Nutrition Sciences 720X, 765X or 774.5X, and permission of the chairperson.

790.2X Internship II
90 hours; 3 credits
Continuation of Health and Nutrition Sciences 790.1X.
Prerequisite: Health and Nutrition Sciences 790.1X and permission of the chairperson.

790.3X Internship III
90 hours; 3 credits
Continuation of Health and Nutrition Sciences 790.2X.
Prerequisite: Health and Nutrition Sciences 790.2X and permission of the chairperson.

790.4X Internship IV
90 hours; 3 credits
Continuation of Health and Nutrition Sciences 790.3X.
Prerequisite: Health and Nutrition Sciences 790.3X and permission of the chairperson.

791.1X Research Seminar
30 hours plus conference; 3 credits
Examination of the stages of the research process, highlighting selected research designs and data collection techniques. Application of the principles and methods of research to the critical analysis of the health and nutrition sciences literature.
Prerequisite: completion of two graduate courses in health and nutrition sciences, and a GPA of 3.00 (B) or better in graduate courses completed to date.

791.2X Research Seminar II
30 hours plus conference; 3 credits
Examination of quantitative and qualitative techniques appropriate for research in the health sciences. Class discussions of each student's efforts in developing a master's thesis. (Not open to students who are enrolled in or have completed Health and Nutrition Sciences 791.1X, and a GPA of 3.00 (B) or better in graduate courses completed to date.

791.3X Research Seminar III
30 hours plus conference; 3 credits
Examination of quantitative and qualitative techniques appropriate for research in the health sciences. Class discussion of each student's effort in developing a master's paper. This course may be taken two times. (Not open to students who are enrolled in or have completed Health and Nutrition Sciences 791.2X.)
Prerequisite: Health and Nutrition Sciences 791.1X and a GPA of 3.00 (B) or better in graduate courses completed to date.

792X Special Topics
30 hours plus conference; 3 credits
Topical discussion of recent contributions in health science. Course content varies from term to term. (Not open to students who have completed Health Science 792X.)

795X Independent Reading
Minimum of 135 hours of independent work and conference; 3 credits
Reading, approved by a faculty adviser, in an area of health science. One or more written reports or a final examination. (Not open to students who have completed Health Science 795X.)
Prerequisite: matriculation for the M.S. in Ed. in health science or for the M.A. in community health; and permission of the deputy chairperson.

797.1X Master's Paper: Research on Health Behavior
30 hours plus conference; 3 credits
Critical analysis of the recent research on health behavior. Examination of theoretical models and empirical research on health behavior. Students will be required to write a master's paper on this topic. Discussions of each student's master's paper in progress. (Not open to students who have completed Health and Nutrition Sciences 791.2X or any of the courses numbered 797.1X through 797.9X.)
Prerequisite: Health and Nutrition Sciences 791.1X or 791.1X, and 791.3X with a grade of B or higher, and a GPA of 3.00 (B) or better in graduate courses completed to date.

797.2X Master's Paper: Research in Medical Care Costs
30 hours plus conference; 3 credits
Analysis of the recent research on medical care costs. Examination of factors that cause, and of attempts to reduce, the rise in costs. Students will be required to write a master's paper on this topic. Discussions of each student's master's paper in progress. (Not open to students who have completed Health and Nutrition Sciences 791.2X or any of the courses numbered 797.1X through 797.9X.)
Prerequisite: Health and Nutrition Sciences 791X or 791.1X, and 791.3X with a grade of B or higher, and a GPA of 3.00 (B) or better in graduate courses completed to date.
797.3X Master’s Paper: Research on Dilemmas in Health Care
30 hours plus conference; 3 credits
Examination of dilemmas resulting from the practice of the health sciences and medicine. Elucidation of social, legal, and ethical issues for patients, families, practitioners, and society. Students will be required to submit a master’s paper on this topic. Discussions of each student’s master’s paper in progress. (Not open to students who have completed Health and Nutrition Sciences 791.2X or any of the courses numbered 797.1X through 797.9X.)
Prerequisite: Health and Nutrition Sciences 791X or 791.1X, and 791.3X with a grade of B or higher, and a GPA of 3.00 (B) or better in graduate courses completed to date.

797.4X Master’s Paper: Research on Issues in Women’s Health and Medical Care
30 hours plus conference; 3 credits
Analysis of research on factors affecting women’s health and medical care. An evaluation of women’s health as it is affected by social, cultural, political, and economic factors. Students will analyze these issues from medical, legal, and ethical perspectives. Students will be required to write a master’s paper on a research topic in women’s health. Discussions of each student’s master’s paper in progress. (Not open to students who are enrolled in or have completed Health and Nutrition Sciences 791.2X or any of the courses numbered 797.1X through 797.9X.)
Prerequisite: Health and Nutrition Sciences 791X or 791.1X, and 791.3X with a grade of B or higher, and a GPA of 3.00 (B) or better in graduate courses completed to date.

797.9X Master’s Paper: Research on Adherence with Health Promotion/Disease Prevention and Treatment Regimens
30 hours plus conference; 3 credits
Critical analysis of the recent research on adherence to health-related regimens. Examination of theoretical models and empirical research on adherence. Students will be required to write a master’s paper on this topic. Discussions of each student’s master’s paper in progress. (Not open to students who have completed Health and Nutrition Sciences 791.2X or any of the courses numbered 797.1X through 797.9X.)
Prerequisite: Health and Nutrition Sciences 791X or 791.1X, and 791.3X with a grade of B or higher, and a GPA of 3.00 (B) or better in graduate courses completed to date.

799X Independent Study
Minimum of 135 hours; 3 credits
Research project in a selected area of health science supervised by a faculty member. (Not open to students who have completed Health Science 799X.)
Prerequisite: matriculation for the M.S. in Ed. in health science or for the M.A. in community health; and permission of the deputy chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

765X Human Relations Training Workshop in Sex Education
766X Family Living and Sex Education
History

Office: 524 Whitehead Hall
Telephone: 951-5303, 951-5304

Chairperson: David G. Troyansky
Deputy Chairperson, Division of Graduate Studies: Steven Remy
Professors: Burrows, Gallagher, Johnson, King, Troyansky;
Associate Professors: Banerjee, Remy, SenGupta, Wills, Wills;
Assistant Professors: Ebert, Fishman, Meyer, Napoli, Rawson, Stern.

M.A. in history
HEGIS code 2205; SED program code 02106

The M.A. in history program provides an intensive introduction to the study of history in a wide variety of subject areas and prepares students for careers in teaching, doctoral-level work in the field, and professions in which knowledge of the past and facility in historical research methods are essential components. Faculty specializations range from the ancient to modern periods in European, Latin American, African, Asian, Middle Eastern and American history. Approaches include social and cultural, political, diplomatic, environmental, and economic history.

Matriculation requirements
Applicants must have completed at least 12 credits in advanced undergraduate courses in history or, with permission of the chairperson or graduate deputy, 12 credits in advanced undergraduate courses in history, economics, and political science.

Students admitted as matriculants in history must complete History 700X with a grade of A or B by the end of their second semester or they will lose matriculated status.

Students admitted as nonmatriculants must complete History 700X with a grade of A or B in order to achieve matriculated status in the Department of History.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits in History Department courses are required for the degree.

The following courses are required:

History 700X with a grade of A or B. A student with an exceptionally strong undergraduate record in history may, with the permission of the chairperson or the graduate deputy, offer another course instead of 700X to satisfy both the matriculation and the degree requirements.

Five courses numbered from History 720X to History 760X. With the permission of the chairperson or the graduate deputy, two (2) of these courses may be replaced by additional colloquia and/or History 784G.

M.A. in history
HEGIS code 2205; SED program code 02106

Two colloquia in history.

History 705G. Students with exceptionally strong undergraduate records may, with the prior approval of the chairperson or the graduate deputy, offer History 785G as a substitute for this course.

History 783G.

Recommendations
Students should consult the graduate deputy early in their course of study and each semester thereafter.

Students who intend to study toward a doctoral degree should have completed at least two years of college-level foreign language study.

Students who intend to study toward a doctoral degree should ascertain the matriculation requirements of the graduate school they plan to attend.

CUNY Ph.D.
The City University of New York offers a doctoral program in history. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Department courses may be credited toward the CUNY history doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the History Department and the executive officer of the doctoral program.

Courses
The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

700X Introduction to the Study of History
30 hours plus conference; 3 credits
Analysis of historical sources and of approaches to writing history. (Not open to students who have completed History 701.1X.)

720.3X Main Currents in Contemporary World History
30 hours plus conference; 3 credits
The history of the main world regions and their interrelationship since 1945. Breakdown of the wartime alliance; confrontation between the West and the Soviet Union; the atomic age; the eras of the cold war and peaceful coexistence; wars of national liberation and the new states of Africa and Asia. Historical contexts of modern revolutions and wars. Breakup of the Soviet Union; Persian Gulf War and the primacy of oil; the new nationalism and ethnic conflicts; the global economy and the silicon age.
**European history**

**721X The Civilization of Medieval Europe**
30 hours plus conference; 3 credits
Society, culture, and the economy of western Europe from late antiquity to the early fourteenth century. Classical, Jewish, Christian, and Islamic interactions. Political ideas and institutions. The Germanic kingdoms. Varieties of lordship and community. Papal monarchy. The Crusades. Revival of urban culture. Medieval intellectual life, art, and architecture. (Not open to students who have completed History 721.1X or 721.2X.)

**723.1X The Renaissance**
30 hours plus conference; 3 credits
Development of the Italian Renaissance. Its effects on and importance for European countries beyond the Alps. Source materials, including examples from literature and art, are used to illustrate the significance of the Renaissance.

**731.1X The Enlightenment**
30 hours plus conference; 3 credits
Development of Western thought from Locke to Kant. Its intellectual, political, and social aspects.

**731.3X The Old Regime and the French Revolution**
30 hours plus conference; 3 credits
Background and development of the French Revolution. The rise of Napoleon. Controversial problems of historical interpretation.

**738.2X History of Marxism**
30 hours plus conference; 3 credits
Sources of Marxian thought. Development of “orthodox” and “revisionist” strands in Marxism until World War I. Transmission to eastern Europe. Leninism and its appeal in Asia, Africa, and the Americas.

**United States history**

**741.1X The Colonial Period**
30 hours plus conference; 3 credits

**741.2X The American Revolution and the Constitution**
30 hours plus conference; 3 credits
Political, social, and economic forces that accompanied the American Revolution. Nature of the critical period. Drafting and ratification of the Constitution.

**741.5X Civil War and Reconstruction**
30 hours plus conference; 3 credits
Scholarly interpretations of the U.S. Civil War; its memory; its influence on concepts of citizenship and states’ rights. Slavery, race, and the “Peculiar South”; westward expansion; new forms of mass politics, and economic and cultural changes within northern society that shaped the antislavery movement. The impact of class, gender, and racial affiliations. Debates in Reconstruction historiography.

**741.6X The Gilded Age and the Progressive Era**
30 hours plus conference; 3 credits

**741.8X Twentieth-Century America**
30 hours plus conference; 3 credits
American history from the aftermath of the Progressive Era until the present. The course will focus on the effects of the Wilson presidency; the Depression and American life; the New Deal; World War II; and the onset of the Cold War; the changing nature of postwar liberalism; the United States in Vietnam; Richard Nixon and Watergate; environmentalism, feminism, and new social movements; and the revitalization of American conservatism.

**History of American Political Parties**
30 hours plus conference; 3 credits
Development, role, and impact of political parties in American history.
743.2X Modern American Diplomatic History from 1898
30 hours plus conference; 3 credits
American international relations from the Spanish-American War to the present.

743.3X The History of the American Presidency
30 hours plus conference; 3 credits
The history of the American presidency from the constitutional era until the present. Topics include: the constitutional debates over the executive; the establishment and consolidation of the office; the records of important presidents, such as W. ashington, Lincoln, and the Progressive Era presidents; F.D.R. and the expansion of the executive branch bureaucracy; the modern presidency and the Cold W ar; the law, foreign affairs, and public opinion.

743.4X American Constitutional History
30 hours plus conference; 3 credits
This course will examine American constitutional history since 1750. Beginning with the Revolutionary Era and the Constitutional Convention, the course will cover the establishment of the Supreme Court, nineteenth-century debates over slavery and economics, and the changing role of the Court in twentieth-century America.

745.2X History of Black Americans
30 hours plus conference; 3 credits
Role, status, aspirations of Blacks in American society from the colonial period to the present.

745.3X Immigrant Groups in American History
30 hours plus conference; 3 credits
Historical problems of acculturation and identity of immigrant groups.

Latin American/Caribbean/Asian/African history

751.2X Modern Latin America
30 hours plus conference; 3 credits
Transformation of the leading countries of Latin America from the age of reform and independence. Emergence of the changing political culture, society, and economic order of today.

751.5X The Caribbean from the Coming of the Europeans to the Present
30 hours plus conference; 3 credits
The history and historiography of the Caribbean basin. The coming of the Europeans and destruction of indigenous populations and cultures. The first colonization and Spanish dominance. The development of the sugar and slave complex. The Haitian Revolution and the end of slavery in the colonial empires. Nineteenth-century neglect. The United States and the new colonialism. The gradualist approach to independence in the British West Indies, Haiti, the Dominican Republic, and Cuba since 1900. Present attempts at social and economic development.

751.7X Slavery in the New World
30 hours plus conference; 3 credits
Slavery in the Americas from an Atlantic perspective (including developments in Africa and Europe) from the fifteenth century until abolition. Topics to be addressed include: the historiography of slavery; slavery in Europe from the Greeks and Romans to fifteenth-century Iberia, the changing nature of slavery in Africa, the slave trade, the economics of slavery, the plantation system, daily life among slaves and slaveowners, slavery and race, hegemony, resistance, slave revolts, the Haitian Revolution, abolition in the Americas, and post-emancipation challenges.

752X Modern Ottoman History, 1700-1923
30 hours plus conference; 3 credits
Historiography and historical background; Ottomans and their wider world; statecraft and autocracy; trade and economic life; society and popular culture; women in the empire; peasants and townspeople; minority relations; encroaching Europe and reform; Egypt and Muhammad Ali; the Young Ottomans; centrality of the Balkans and consequences of their loss; debates over “decline”; debt crisis; Young Turks and centralization; pan-Islam; emergence of Arab nationalism; Ottomans and Zionists; war and collapse; imperial legacies.

753.2X Nationalism and Revolution in Modern East Asia
30 hours plus conference; 3 credits
Rise and development of nationalist and revolutionary movements in China, Japan, Korea, selected countries of Southeast Asia in modern times. Leaders, ideologies, political parties.

753.3X Pre-Modern China
30 hours plus conference; 3 credits
The history of China from its earliest origins to the Ming dynasty. Topics will vary, but may include the earliest Stone-Age civilizations, origins of the Chinese state and religion, the period of classical philosophy, the first conquest dynasties, the development of popular culture.

753.4X Modern China
30 hours plus conference; 3 credits
China from the early nineteenth century to the present. Breakdown of the Manchu dynasty and transformation of the traditional civilization during the republican and Communist eras.

753.5X Modern South Asia
30 hours plus conference; 3 credits
India under British rule, and India, Pakistan, and Bangladesh since independence. Evolution of nationalist movements and problems of modernization. Role of these independent nations in world affairs.
753.7X Imperialism and Nationalism in South and Southeast Asia
30 hours plus conference; 3 credits
Patterns of British and French rule in South and Southeast Asia from the nineteenth century. The rise of nationalism in India and Vietnam from the late nineteenth century. Comparative analysis of these movements, especially the development of leadership, organization, and ideology, and the interplay of violent and nonviolent techniques of struggle. Impact of World War II and Japanese expansion for European rule and nationalist movements. Independence in the postwar period and the continuing role of great powers in the region. Some comparisons will be made to Indonesia, Malaya, Burma, and Cambodia.

753.8X Asia and the United States
30 hours plus conference; 3 credits
Lectures, critical readings, discussions, and research papers on the relations of China, Japan, India, Vietnam, and the United States from the late eighteenth century to the present. Some attention will be given to Asian immigrants in the United States from the mid-nineteenth century to the present.

754.1X Social Change in Africa, 1750–1945
30 hours plus conference; 3 credits
Introduction to social change in sub-Saharan Africa from the era of the slave trade to the end of World War II. Emphasis on internal transformations sparked by industrialization, imperial expansion and colonization, including both political innovations and changing market relations as well as transformations in kinship and gender relations. In-depth coverage of slavery, women in the economy, the development of an African working class, religious transformations, the emergence of new elites, the growth of modern political activism, and resistance to colonization. This course is the same as Africana Studies 775X.

Special topics

760X Special Topics in History
30 hours plus conference; 3 credits
Offered at intervals. Topics vary. May be taken more than once, but a student may not repeat the same topic.

Colloquia

Colloquia are intensive reading/discussion courses designed to familiarize students with current research and writing in a major historical field. Colloquia are open only to students matriculated in history who have completed History 700X with a grade of A or B or who have been exempted from that requirement.

705G Research Seminar
30 hours plus conference; 3 credits
Application of basic principles and techniques of historical research and writing. Offered by various department members. Seminar topics are chosen by the instructor. Prerequisite: History 700X with a grade of A or B and permission of the chairperson or the graduate deputy.

770.1X Colloquium in Medieval History
30 hours plus conference; 3 credits
Critical readings, discussions, and analytical student papers on significant works in political, socioeconomic, religious, intellectual, and cultural history from late antiquity to the fifteenth century. Three short essays and a final examination. Prerequisite: History 700X with a grade of A or B.

770.2X Colloquium in Early Modern European History
30 hours plus conference; 3 credits
Critical readings, discussions, and analytical student papers on significant works in political, intellectual, and socioeconomic history from the fifteenth through the eighteenth centuries. Three short essays and a final examination. Prerequisite: History 700X with a grade of A or B.

770.3X Colloquium in Modern and Recent European History
30 hours plus conference; 3 credits
Critical readings, discussions, and analytical student papers on significant works in political, intellectual, and socioeconomic history from the end of the eighteenth century to the end of the twentieth century. Prerequisite: History 700X with a grade of A or B.

770.4X Colloquium in Early American History
30 hours plus conference; 3 credits
Critical readings, discussions, and analytical student papers on significant works in political, intellectual, and socioeconomic history from the colonial to the antebellum periods. Three short essays and a final examination. Prerequisite: History 700X with a grade of A or B.

770.5 Colloquium in the Civil War and Reconstruction
30 hours plus conference; 3 credits
A reading-intensive course focusing on the U.S. Civil War and Reconstruction in scholarly discourse, popular memory, and public ritual. Historiography of the causes and consequences of sectional conflict with special reference to slavery, race, and the "Peculiar South"; westward expansion; new forms of mass politics, and economic and cultural changes within northern society that shaped the antislavery movement; the impact of class, gender, and racial affiliations; the war’s influence on concepts of citizenship, states’ rights, and national identity. Prerequisite: History 700X with a grade of A or B.
770.6X Colloquium in Twentieth-Century American History
30 hours plus conference; 3 credits
Critical readings, discussions, and analytical student papers on significant works in United States history since 1900.
Prerequisite: History 700X with a grade of A or B.

770.7X Colloquium in Asian History
30 hours plus conference; 3 credits
Critical readings, discussions, and research papers on themes in the comparative history of China, Japan, India, and Vietnam in the nineteenth and twentieth centuries.
Prerequisite: History 700X with a grade of A or B.

770.8X Colloquium in Middle Eastern History
30 hours plus conference; 3 credits
Critical readings, discussions, student oral reports and papers on documents and significant works in social, economic, political, religious, intellectual, and cultural history of the Middle East from the mid-fifteenth century to the end of the Ottoman Empire in 1923.
Prerequisite: History 700X with a grade of A or B. Research and Independent Study courses.

783G Master’s Essay
Hours to be arranged; 3 credits
Research for master’s essay supervised by a faculty member. Credit is not earned until the essay is accepted. Students may register for this course only once.
Prerequisite: History 700X and 705G (or 785G); and permission of the instructor, and of the chairperson or the graduate deputy.

784G Independent Reading
Minimum of 135 hours of independent reading and conference; 3 credits
Independent study of readings from a selected area of history supervised by a faculty member. Findings are presented in written reports and/or a final examination. This course may be taken for credit twice.
Prerequisite: History 700X; and permission of the instructor, and of the chairperson or the graduate deputy.

785G Independent Research
Minimum of 135 hours of independent research and conference; 3 credits
Extensive research under faculty supervision. Findings presented in a substantial research paper.
Prerequisite: History 700X with a grade of A or B; and permission of the instructor, and of the chairperson or the graduate deputy.

The following courses are inactive and will be offered only if there is sufficient demand:
733X Modern Britain: 1780 to the Present
738.4X Women in Modern Europe
744.1X American Economic History
Judaic Studies

Office: 3111 James Hall
Telephone: 951-5229

Chairperson: Sara Reguer
Deputy Chairperson, Division of Graduate Studies: Sharon Flatto
Professors: Druks, Helfand, Leiman, Reguer;
Associate Professors: Flatto, Shapiro.

M.A. in Judaic studies
HEGIS code 0309; SED program code 79419
The M.A. in Judaic studies program offers advanced instruction and research in many areas of Judaic studies. Our graduates have found new employment or have enhanced their present careers in such diverse fields as education, non-profit organizations, and social work. Others have been accepted into doctoral programs. The 30-credit program requires a minimum of 21 credits to be completed in the department and 9 credits to be chosen in consultation with the department chairperson. In completing the degree the student may opt either to take a comprehensive examination or to write a thesis.

Matriculation requirements
Applicants must offer at least 18 credits in advanced undergraduate courses in Judaic studies or the equivalent. Applicants must offer minimal competency in the Hebrew language equivalent to two years of college-level Hebrew. An interview is required at the time of application. General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements
Thirty credits are required for the degree.

Courses in Judaic studies are grouped in the following areas of study:

A. 1. Bible: Judaic Studies 704X, 706X, 707X, 708X, 782.1X.
2. Talmud and Midrash: Judaic Studies 711X, 712X, 714X, 715X, 782.2X.

B. 3. Jews of Central and Western Europe: Judaic Studies 720X, 722X, 723X, 724X, 782.3X.
5. Holocaust: Judaic Studies 747X, 748X, 749X, 750X, 782.5X.

7. Israel and the Middle East: Judaic Studies 751X, 751.1X, 752X, 754X, 782.7X.
8. Modern Jewish Thought: Judaic Studies 720X, 754X, 760X, 761X, 782.8X.

Students must complete 21 credits in courses in the Judaic Studies Department. The following courses are required: four courses in one of the eight areas of study (selected from one of the categories A, B, or C); and at least one additional course selected from each of the two other categories (A, B, or C). Students who choose to write a thesis are required to take Judaic Studies 783G. The remaining 9 credits required for the degree may be in courses in other departments, or outside the college, with the approval of the chairperson.

Before completing 18 credits, students must pass an advanced language examination, administered by the department, which tests their ability to read and comprehend Hebrew or another foreign language pertinent to their area of specialization and approved by the department.

After completing all course work, except Judaic Studies 783G, students must pass a comprehensive examination or submit a thesis acceptable to the department. Students who choose to submit a thesis may do so only with the approval of the department.

Information about the thesis and comprehensive examination is in the section "Academic Regulations and Procedures."

Courses

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

720X Western European Jewry from the Seventeenth Century to 1815
30 hours plus conference; 3 credits
A survey of the economic, social, and cultural changes that transformed Western European Jewry in the seventeenth and eighteenth centuries, and the process of adjustment and modernization in the wake of these changes.

723X Topics in the History of Western and Central European Jewry
30 hours plus conference; 3 credits
A research seminar dealing with different aspects of Western and Central European Jewry offered by various department members. Topics vary from term to term. Readings and research in source materials; students organize and present their findings in written papers. Students may complete this course for credit up to three times with the permission of the chairperson, but may not repeat topics.
Prerequisite: permission of the instructor.

724X Modern German Jewry
30 hours plus conference; 3 credits
A study of the German-speaking Jews of Central Europe. Focus on emancipation and acculturation, religious tradition and reform, patterns of occupation and residence, communal organization and political activities, and anti-Semitism.
730X East European Jewry Until 1917
30 hours plus conference; 3 credits
A survey of Jewish life in Poland, Lithuania, and Russia from the Middle Ages until 1917, emphasizing its communal and political history.

731X Jews in Eastern Europe, 1917 to the present
30 hours plus conference; 3 credits
Changing patterns of Jewish life in Soviet Russia, Lithuania, and Poland between two world wars; Soviet Jews during and after World War II, and the remnants of Polish Jewry in the post-Holocaust era.

736X Hasidic Dynasties: Leadership and Community
30 hours plus conference; 3 credits
Major Hasidic dynasties. Works of Hasidic leaders. Impact of their thought and personality on their respective dynasties and communities.

747X Perspective on the Holocaust
30 hours plus conference; 3 credits
Analysis of the Holocaust in the context of Western civilization and the Jewish experience. Impacts of anti-Semitism and racism on international political and interreligious relations. The Jewish response to the Holocaust and its aftermath; political, psychological, theological reorientation.

748X The Holocaust in Literature
30 hours plus conference; 3 credits
A study of the Holocaust in world literature. The transformation of the Holocaust from an historical event into an artistic expression. Its major themes, patterns, symbols, traditions, and vocabulary in memoirs, diaries, fiction, drama, and poetry. All readings in English.

749X The British and American Response to the Holocaust
30 hours plus conference; 3 credits
Focus on the response of the British and American people and their governments to the Holocaust. Particular emphasis on the response of the British and American Jewish communities and their organizational responses from 1933 to the present.

750X Holocaust Seminar
30 hours plus conference; 3 credits
A research seminar dealing with different aspects of the Holocaust offered by various department members. Topics will vary from term to term. Readings and research in source materials; students organize and present their findings in written papers. Students may complete this course for credit up to three times with the permission of the chairperson but may not repeat topics.
Prerequisite: permission of the instructor.

751.1X Israel in the Modern World
30 hours plus conference; 3 credits
Aspects of Israel’s international position and its foreign policy; the national Jewish revival; Western and Oriental cultures in Israel; Arab-Israeli relations and African-Israeli relations.

761X Contemporary Jewish Thought
30 hours plus conference; 3 credits
An in-depth consideration of one major contemporary Jewish thinker. Emphasis on the general theory of religion as well as the particular interpretation of Judaism given in each case. Among those to be studied are J.D. Soloveitchik, Martin Buber, and Mordecai Kaplan.

763X Suffering: The Book of Job and Its Literature
30 hours plus conference; 3 credits
An in-depth study of The Book of Job and the literature dealing with it. Discussion of the way that religious writers, both ancient and modern, deal with the issue of suffering. Why “bad things happen to good people.” This course is the same as Liberal Studies 743X.

782.1X–782.8X Special Topics
30 hours plus conference; 3 credits
Topics vary from term to term.

782.1X Bible
782.2X Talmud and Midrash
782.3X Jews of Central and Western Europe
782.4X Jews of Eastern Europe
782.5X Holocaust
782.6X Jews of America
782.7X Israel and the Middle East
782.8X Modern Jewish Thought
Prerequisite: permission of the chairperson

783G Thesis Research
Hours to be arranged; 3 credits
Research for the master's thesis supervised by a faculty member. Prerequisite: permission of the chairperson.
**785G Independent Study**  
Hours to be arranged; 3 credits  
Readings in a selected area of Judaic studies supervised by a faculty member. Research paper and/or final examination.  
Prerequisite: permission of the chairperson.  

The following courses are inactive and will be offered only if there is sufficient demand:  

- **704X** The Biblical Period: An Intellectual History  
- **706X** The Canon and Masorah of the Hebrew Bible  
- **707X** Dead Sea Scrolls  
- **708X** Bible Seminar: The Book of Deuteronomy  
- **711X** The Tannaitic Period and its Literature  
- **712X** The Amoraic Period and its Literature  
- **714X** The Midrashic Literature  
- **715X** Talmud Seminar  
- **722X** Modern French Jewry  
- **732X** Religious and Social Movements Among East European Jewry  
- **742X** The Jews of New York  
- **744X** The Sociology of the American Jewish Community  
- **751X** Jews in the Moslem World  
- **752X** The Old Yishuv  
- **754X** Zionism  
- **760X** Jewish Perspectives on Contemporary Ethical Issues  

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**Liberal Studies**  
Office: 3227 Boylan Hall  
Telephone: 951-5252  
Director: Philip F. Gallagher  

**M.A. in liberal studies**  
**HEGIS code 4901; SED program code 82507**  

The master of arts in liberal studies (MALS) program, with its interdisciplinary approach to liberal arts and sciences, explores how human nature has been viewed during different historical periods by various cultures. Considered from the perspective of diverse disciplines, including communications, the humanities, and the social, natural, and computer sciences, the study of human nature leads to a deeper understanding of modern developments in the world and in these disciplines.  

Students have the option of selecting elective courses for a concentration in a particular area of study, such as fine arts, religion, sociology, literature, history, or media. Course work includes classes and seminars, which are small and discussion-oriented. Students enter the MALS program to broaden an undergraduate education that was technical or highly specialized, to pursue an interdisciplinary education, or to pursue a career in which a broad liberal arts background is valuable, such as law, government, education, communications, philanthropy, publishing, sales, public relations, journalism, or museum administration.  

**Matriculation requirements**  
An applicant must offer a grade point average of 3.00 or higher in his or her area of undergraduate concentration.  

A screening interview by the program coordinator is required.  

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”  

**Degree requirements**  
Thirty credits are required for the degree.  

Students must complete Liberal Studies 700X, 701X, 710X, 711X, 712X, and 780X.  

The remaining 12 credits are in elective courses chosen in consultation with the program coordinator.  

Up to 6 graduate transfer credits may be applied to the program with the approval of the program coordinator.
Courses

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

700X Core Seminar I, The Concept of Human Nature: The Elusive Image
90 hours; 6 credits
A study of the concept of human nature as seen through the disciplines of religion, philosophy, psychology, literature, art, and film/television in different historical periods and in various cultures. Corequisite: Liberal Studies 710X.

701X Core Seminar II, The Concept of Human Nature: The Elusive Image
90 hours; 6 credits
A study of the concept of human nature as seen through the disciplines of archaeology/anthropology, comparative history, sociology, philosophy of science, computer and information science, and biology in different historical periods and in various cultures. Corequisite: Liberal Studies 711X.

710X Symposium I
15 hours; 1 credit
Discussion of a topic related to Liberal Studies 700X by faculty and students; a short report is required. Corequisite: Liberal Studies 700X.

711X Symposium II
15 hours; 1 credit
Discussion of a topic related to Liberal Studies 701X by faculty and students; a short report is required. Corequisite: Liberal Studies 701X.

712X Symposium III
15 hours; 1 credit
Discussion of a topic related to current elective courses by faculty and students; a short report is required.

720X Language, Culture, and Society
30 hours plus conference; 3 credits
Examination of the various formulations of the interconnections among language, culture, and society. Focus on the interplay of language, society, and power with particular attention to issues of linguistic diversity based on gender and race, and to issues of multilingualism in education. Readings from the fields of linguistics, linguistic anthropology, philosophy, and literary theory. This course is the same as English 703X.

721X The Literary Presentation of Self
45 hours; 3 credits
Examination of religious and secular concepts of selfhood in relation to broad intellectual and social pattern of various historical epochs.

730X Two American Decades on Film: The Thirties and the Sixties
45 hours; 3 credits
Comparison of the ways that fiction films reflect American values. A look at the genre film as it adapts to the prevailing Zeitgeist.

731X New York Voices
30 hours plus conference and independent work; 3 credits
New York's neighborhoods, each with its distinctive characteristics, reflect the ethnic and social origins of the villages they once were. The purpose of this course will be to use documentary techniques, applied to first-person materials, in order to produce dramatic monologues for stage performances. The subjects of the scripts will be decided upon by students doing research on New York's "villages" and their most illustrious citizens.

742X The Sacred and the Self
45 hours; 3 credits
Examination of the sacred dimension of experience with respect to such topics as transcendence, resurrection and immortality, salvation, and human nature. Both ancient and contemporary sources will be explored. Prerequisite: Liberal Studies 700X.

743X Suffering: The Book of Job and Its Literature
30 hours plus conference; 3 credits
An in-depth study of The Book of Job and the literature dealing with it. Discussion of the way that religious writers, both ancient and modern, deal with the issue of suffering. Why "bad things happen to good people." This course is the same as Judaic Studies 763X.

760X Special Topics
45 hours; 3 credits
Topics vary from term to term. Course description may be obtained in the Liberal Studies Program Office before registration. Students may take this course for credit twice, but may not repeat topics. Prerequisite: permission of the program director.

780X Research Project
45 hours; 3 credits
An extensive research project based on an interdisciplinary topic, supervised by at least two members of the faculty. Students may receive credit for this course only on completion of all course work. Prerequisite: approval of the program director.
782X Independent Research
15 hours, to be arranged; 1 credit
Independent research supervised by a faculty member. Approved topic. Weekly conferences. Final project or report.
Prerequisite or corequisite: completion of all required course work except the thesis, final project, comprehensive or foreign language examination. Students may elect to take this course for a grade of pass or fail under the following conditions. Students must be in degree status for the master's degree and have met the prerequisites and corequisites for the course. A pass grade is not counted in a student's GPA or in computing eligibility for the Dean's Honor List. A fail grade is counted in the GPA. A student who takes the course under the pass-fail option must complete the course under that option. A pass grade may not be changed to another grade. The registration procedure for taking this course for a grade of pass or fail is the same as for any other course; application to elect the pass-fail option is made in the Office of the Registrar no later than the deadline for late registration, which is published in the Schedule of Classes each semester.

783.1X, 783.2X Independent Research
Hours to be arranged; 3 credits
Independent research supervised by a faculty member. Approved topic. Weekly conferences. Final project or report.
Prerequisite: approval of the program director.

The following courses are inactive and will be offered only if there is sufficient demand:

722X Moral and Pictorial Traditions in Western Civilization
741X Contemporary Feminist Thought

Mathematics
Office: 1156 Ingersoll Hall
Telephone: 951-5246, 951-5247
Chairperson: George S. Shapiro
Deputy Chairperson, Division of Graduate Studies: Laurel A. Cooley
Professors: Gardiner, Gittings, Halpern, Hennefeld, Marathe, Maté, Shapiro, Sibner, Stone, Velling
Associate Professors: Cooley, Godino, Hochberg, Hu, Snow, Suzuki
Assistant Professors: Benes, Chamanara, Clement, Hadililadas, Kingan.

M.A. in mathematics
HEGIS code 1701; SED program code 02063
The Mathematics Department offers a distinctive master of arts program in pure and applied mathematics. Students gain experience with current mathematical software and technology, and may study computational mathematics in conjunction with the Computer and Information Science Department. Students who do not wish to pursue university-level teaching and research careers may elect to develop expertise in financial mathematics to obtain the marketable credentials for work in the financial industry. Mathematics Department faculty members develop and conduct high quality research and participate in the mathematics and urban education doctoral programs of The Graduate Center of The City University of New York.

Matriculation requirements
Applicants must offer at least 18 credits in mathematics courses beyond elementary calculus.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits are required for the degree.
Students must complete 21 credits in courses in the Mathematics Department. The following courses are required: Mathematics 714.1X, 715.1X, 721X or 720.4X, and 722X.

With permission of the deputy chairperson, the remaining credits required for the degree may be in courses in any department.
Students must pass a comprehensive examination or submit a thesis acceptable to the department. Students may submit a thesis only with the approval of the department. Students who receive such approval are required to register for Mathematics 783X (no credit). Information about requirements for the comprehensive examination and the thesis is in the section “Academic Regulations and Procedures.”

Courses in the Mathematics Department offered toward the degree must be 700-level courses.
The program of study must be approved by the deputy chairperson.
Recommendations
Students should submit the program of study for approval early, before initial registration if possible. The department gives guidance in planning a well-balanced program. Students should acquire a reading knowledge of mathematical French, German, and/or Russian, although no foreign language examination is required.

M.A., mathematics teacher (7-12)
HEGIS code 1701.01; SED program code 26734
The Mathematics Department, in conjunction with the School of Education, offers a master of arts degree in adolescent mathematics education for high school mathematics teachers (grades 7–12). The New York State Education Department licenses graduates of registered teacher education programs who meet the state requirements for teachers. Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.

The department also participates in a master of science degree program for middle childhood education specialists in math (grades 5–9).

Matriculation requirements
Applicants must offer at least 15 credits in mathematics courses beyond elementary calculus.

Applicants must also offer (a) or (b) or (c):
(a) New York State Initial Certification in Adolescence Education for grades 7–12 in teaching mathematics for grades 7–12;
(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching mathematics in grades 7–12; 100 hours of fieldwork; 40 days or 300 hours of student teaching of mathematics in grades 7–12, or one year of full-time teaching of mathematics in grades 7–12; and submission of scores on the L.A.S.T.;
(c) an undergraduate degree with an appropriate major or appropriate course work in mathematics, and submission of scores on the Liberal Arts and Science test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of at least 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Mathematics Department.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
A minimum of 30 credits is required for the degree.

Students must complete 18 credits in courses in the Mathematics Department including Mathematics 720.2X, 731.1X, and at least one course from the following list: 710X, 714.1X, 752X. In special cases, with permission of the deputy chairperson, students may be permitted to substitute other courses in mathematics or in related fields for one or more of these three courses.

With permission of the deputy chairperson of the Mathematics Department, the remaining credits of the 18 credits required for the degree may be in courses in any department.

Students who do not offer for admission an advanced mathematics course in probability or statistics are required to take Mathematics 752X.

Students must take 12 credits in courses in the School of Education.

Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching mathematics must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching mathematics or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching mathematics must have the appropriate course work and credits in mathematics and must complete the appropriate courses in Group I before taking courses in Groups II and III, below.

Students pursuing Initial Certification in mathematics must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master's degree but wish Initial Certification in teaching mathematics must take appropriate courses in Group I and Group III below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

Group I
Education 742X, 792.1X, 763.03T, 764.5T, 723.03T, 764.51T.

Group II
Education 742.2T, 722.03T, 724.03T.
Group III
Education 716X, 721.03T, 726.1X, 731.3T, 751.2T, 784.2X, 792.2X, Education 792.4X/English 779X, Education 796X/Theater 741, Education 799.5X.

The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Mathematics Department and the head of adolescence education and special subjects in the School of Education.

**CUNY Ph.D.**

The City University of New York offers a doctoral program in mathematics. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Mathematics Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Mathematics Department and the executive officer of the doctoral program.

**Honor Society**

Sigma Xi, the Scientific Research Society, encourages original investigation in the natural sciences, pure and applied. The fields of activity of the society include the physical sciences, the life sciences, the earth sciences, and mathematics. The Brooklyn College Chapter elects students to associate membership in the society on the basis of academic excellence and marked aptitude for research in one of the fields listed above.

**Courses**

Unless a prerequisite is specific, a student may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

At present, the program is small and many courses are offered as tutorials. Each semester students are consulted in the process of selecting the courses to be offered in the next semester.

Courses offered toward a master of arts degree in mathematics must be 700-level courses.

**604.1T Number Systems and Algebra for Childhood and Middle Childhood Teachers**

45 hours; 3 credits

The real number system and some of its subsystems. Introduction to group and field structures, solutions of equations. Number theory. Sequences and patterns, and problem solving. Technology as a tool for investigating algebra. Connections to curriculum and pedagogy. This course may not be offered toward a master of arts degree in secondary education.

Prerequisite: Mathematics 603T or a course in mathematics for elementary school teachers, or a mathematics course approved by the deputy chairperson.

**604.2T Geometry for Childhood and Middle Childhood Teachers**

45 hours; 3 credits

Investigation of two- and three-dimensional objects and their properties. Congruence and similarity. Coordinate geometry. Transformations in the plane, and their geometric and algebraic properties. Measurement of length, area, volume, surface area. Inductive and deductive proof in geometry. Connections of geometry to the arts and everyday applications. Technology as a tool for investigating geometry. Connections to curriculum and pedagogy. This course may not be offered toward a master of arts degree in secondary education.

Prerequisite: Mathematics 603T or a course in the principles of mathematics for elementary school teachers, or a mathematics course approved by the deputy chairperson.

**604.3T Probability and Statistics for Childhood and Middle Childhood Teachers**

45 hours; 3 credits

Set and graphical representations, counting principle, sample spaces and probability. Measures of central tendency and variability, binomial and normal distributions. Applications to sampling theory and testing of hypotheses; introduction to correlation and regression; applications to research in education. Use of the graphing calculator and databases on the Internet for exploring probability and statistics. Connections to curriculum and pedagogy. This course may not be offered toward a master of arts degree in secondary education.

Prerequisite: Mathematics 603T or a course in mathematics for elementary school teachers or a mathematics course approved by the deputy chairperson.

**604.4T History of Mathematics for Childhood and Middle Childhood Teachers**

45 hours; 3 credits


Prerequisite: Mathematics 604.1T or 604.2T or their equivalents.

**604.5T Discrete Mathematics for Childhood and Middle Childhood Teachers**

45 hours; 3 credits

604.6T Introduction to Functions and Applications for Childhood and Middle Childhood Teachers
45 hours; 3 credits
Analysis of the function concept and its unifying role in mathematics. Elementary algebraic and transcendental functions. Functions as mathematical models in the physical and social sciences. Use of technology to investigate functions, their properties, and applications. Connections to curriculum and pedagogy.
Prerequisite: Mathematics 604.1T or its equivalent, and permission of the deputy chairperson.

606T Workshop for Secondary School Teachers
45 hours; 3 credits
Traditional material in arithmetic, algebra, geometry, and other fields treated from a modern viewpoint.
Prerequisite: permission of the deputy chairperson.

606.01T, 606.02T Problem Seminar in Secondary School Mathematics
45 hours each term; 3 credits each term
Problem solving, discussion, and reports on topics in secondary school mathematics. Term paper or final examination.

606.1T Concepts of Secondary School Mathematics I: Finite Mathematics
45 hours; 3 credits
Computer programming; logic; sets; probability; statistics. Emphasis on aspects found in the New York State Integrated Mathematics Curriculum.
Prerequisite: permission of the deputy chairperson.

606.2T Concepts of Secondary School Mathematics II: Geometry
45 hours; 3 credits
Foundations and basic ideas of geometry and their relation to the secondary school curriculum.
Prerequisite: Mathematics 606.1T or permission of the deputy chairperson.

606.3T Concepts of Secondary School Mathematics III: Modern Algebra
45 hours; 3 credits
Definition, description, and basic properties of the fundamental abstract structures; sets, functions and relations, binary operations, groups, rings, fields. Examples chosen from familiar systems.
Prerequisite: Mathematics 606.2T or permission of the deputy chairperson.

608.1T Calculus I
45 hours; 3 credits
Limits and continuity; techniques and applications of differentiation, including the calculus of trigonometric functions. The definite integral and antiderivatives.
Prerequisite: Mathematics 604.6T or permission of the deputy chairperson.

608.2T Calculus II
45 hours; 3 credits
Prerequisite: Mathematics 608.1T or permission of the deputy chairperson.

612X Social Software and Social Algorithms
371/2 hours plus conference and independent work; 3 credits
A comprehensive introduction to the mathematical and logical techniques relevant to understanding the structure of social algorithms (social software). The study of social institutions, including electoral systems, using techniques from mathematics and computer science, including probability, game theory, and logic. (This course is the same as Computer and Information Science 712X.)
Prerequisite: Mathematics 606.1T or its equivalent

652X Topics in Probability Theory and Statistics
45 hours; 3 credits
Set theory, counting arguments, functions, review of infinite series, sample spaces and probability spaces, conditional probability and independence, discrete and continuous random variables and their distribution functions, joint distributions, expected values and moments, Chebyshev’s inequalities, the law of large numbers, central limit theorem, applications to sampling theory and testing of hypotheses, confidence intervals, introduction to correlation, and regression analysis.
Prerequisite: Mathematics 607X or a year of calculus or permission of the chairperson.

701.2X Foundations of Secondary School Mathematics Curricula II
30 hours plus independent work and conference; 3 credits
Logic; groups; fields; axiomatic affine geometry; the real number system; statistics.
Prerequisite: Mathematics 701.1X.

705X Mathematical Problem-Solving in a Computer-Assisted Environment
30 hours; 2 credits
Mathematical problem-solving, particularly related to applications requiring intensive calculation or visualization using sophisticated “computer algebra” systems and graphing calculators. Students will work in small teams on problems drawn from calculus and more advanced undergraduate mathematics courses.
Prerequisite: Matriculation in the M.A., mathematics teacher (7-12), program.
710X Introduction to the Theory of Sets
45 hours plus independent work and conference; 4 credits

714.1X Theory of Functions I
45 hours plus independent work and conference; 4 credits
Unified treatment of functions over the real and complex domains, including limits, continuity, derivatives, integrals. (Not open to students who have completed Mathematics 714.1G.)

715.1X Theory of Functions II
45 hours plus independent work and conference; 4 credits
Cauchy's integral formulas; Taylor and Laurent series; properties of analytic functions; singularities and residues; conformal mapping; analytic continuation; entire functions. (Not open to students who have completed Mathematics 715.1G.)
Prerequisite: Mathematics 714.1G or 714.1X or the equivalent.

717X Theory of Numbers
45 hours plus independent work and conference; 4 credits

720.2X Modern Algebra I
45 hours plus independent work and conference; 4 credits
Topics from group theory, number theory, linear algebra, field theory.

720.4X Modern Algebra II
45 hours plus independent work and conference; 4 credits
A continuation of Mathematics 720.2X.
Prerequisite: Mathematics 720.2X or permission of the chairperson.

722X Point Set Topology
45 hours plus independent work and conference; 4 credits
Theory of sets and of the standard properties of metric and topological spaces. (Not open to students who have completed Mathematics 722G.)

726X Vector Spaces and Matrices
45 hours plus independent work and conference; 4 credits
Introduction to the theory of linear vector spaces of finite dimensions with applications to algebra and geometry. Linear dependence, linear subspaces, dimensions, linear transformations, systems of linear equations, matrices, bilinear and quadratic forms, inner products, orthogonality, Euclidean spaces, orthogonal and unitary equivalences.

731.1X Geometrical Transformations
45 hours plus independent work and conference; 4 credits

741X History of Mathematical Ideas
45 hours plus independent work and conference; 4 credits
Development of important mathematical concepts in historical and cultural contexts.

752X Introduction to Probability and Statistics
45 hours plus independent work and conference; 4 credits

783X Thesis Research
Hours to be arranged; no credit
Research for master's thesis supervised by a faculty member. Students register for this course only once.
Prerequisite: 20 credits in approved courses and permission of the instructor.

784.1X, 784.2X, 784.3X Independent Study
Hours to be arranged; 1 credit each term
Independent study of selected reading approved by a faculty adviser. Term paper or final examination.

The following courses are inactive and will be offered only if there is sufficient demand:

607X Topics in Differential and Integral Calculus
701.1X Foundations of Secondary School Mathematics Curricula I
701.3X Foundations of Secondary School Mathematics Curricula III
721X Introduction to Field Theory
723.1X Theory of Graphs
725X Theory of Measure and Integration
729X Non-Euclidean Geometry
737X Differential Geometry
738G Introduction to Algebraic Topology
739.1X Topics in Numerical Analysis
756.1X Mathematics for Applications
758X Theory of Games
760X Introduction to Mathematical Logic
Modern Languages and Literatures

Office: 4239 Boylan Hall
Telephone: 951-5451, 951-5452

Chairperson: William P. Childers
Deputy Chairperson, Division of Graduate Studies: Margarite Fernández O Imos
Professors: Barran, Blasi, Bonaffini, Fernández O Imos, Filer, Girelli-Carasi, Huffman, Mbom, Sherzer;
Associate Professors: Childers, Renner;
Assistant Professor: Alonso.

M.A. in French
HEGIS code 1102; SED program code 02026

M.A. in Spanish
HEGIS code 1105; SED program code 02035

Students in these programs acquire a solid foundation in the literature and culture of either the Spanish-speaking or Francophone world. They become adept at various modes of textual analysis, and learn to approach literary works in ways that show their continued vitality and relevance. Coursework also includes advanced grammar and stylistics and research methods. This combination prepares students either for employment in middle and high school language departments or for further study at the doctoral level.

Matriculation requirements
Applicants must offer at least 18 credits in advanced courses in French, if they plan to teach that degree in that language, or Spanish, if they plan to teach the degree in that language.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty to 42 credits are required for the degree.

Students must pass a written and oral comprehensive examination or complete both (a) and (b):

(a) complete 12 credits of course work in addition to the credits otherwise required;

(b) write a substantial research paper, in the language of the degree program, acceptable to the department.

Information about requirements for the comprehensive examination is in the section “Academic Regulations and Procedures.”

Courses in the Modern Languages and Literatures Department offered toward the degree must be 700-level courses. Students must also complete requirements in one language as follows:

French: Students must complete 30 credits in courses in French. The following courses are required: French 703X and 717X.

Spanish: Students must complete 30 credits in courses in Spanish. The following courses are required: Spanish 703X, 717X, a course in Peninsular Spanish literature, and a course in Spanish-American literature.

M.A., French teacher
HEGIS code 1102.01; SED program code 26797

M.A., Spanish teacher
HEGIS code 1105.1; SED program code 26800

These master of arts programs provide students with an introduction to either Peninsular/Latin American or French/ Francophone literatures. At the same time, the focus on language and culture fully prepares students for employment as foreign language teachers at the middle and high school levels. Coursework is divided between the Department of Modern Languages and Literatures (six courses) and the School of Education (generally four courses). The courses required by the School of Education vary depending on the entry qualifications of students. All students should consult with the School of Education for the current requirements.

The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the School of Education for the current requirements.

Matriculation requirements
Applicants must offer at least 18 credits in advanced courses in French, if they plan to teach that language, or Spanish, if they plan to teach that language.

Applicants must also offer (a) or (b) or (c):

(a) New York State Initial Certification in Adolescence Education for grades 7–12.

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescent or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching Spanish or French in grades 7–12; 100 hours of fieldwork; 40 days or 300 hours of student teaching of Spanish or French in grades 7–12; or one year of full-time teaching and submission of scores on the L.A.S.T.;

(c) an undergraduate degree with a major in French or Spanish or appropriate course work in French or Spanish, and submission of scores on the Liberal Arts and Science test (L.A.S.T.).

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course
requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Department of Modern Languages and Literatures.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling. General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**
A minimum of 30 credits is required for the degree.

Students must complete 12 credits in courses in the School of Education.

Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching Spanish or French must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching Spanish or French or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching Spanish or French must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below.

Students pursuing Initial Certification in teaching Spanish or French must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master's degree but wish Initial Certification in teaching Spanish or French must take appropriate courses in Group I and Group III, below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

**Group I**
Education 742X, 792.1X, 763.11T, 764.5T, 723.11T, 764.51T.

**Group II**
Education 742.2T, 722.11T, 724.11T.

**Group III**
Education 716X, 721.11T, 726.1X, 731.3T, 751.2T, 784.2X, 792.2X, Education 792.4X/English 779X, Education 796X/Theater 741, Education 799.5X.

Students must also complete requirements in one language as follows:

**French:** Students must complete 18 credits in French.

The following courses are required: French 717X; 751.3X or 751.4X; a course in Spanish-American literature; and a course in Peninsular Spanish literature.

Students must pass a written and oral comprehensive examination or complete both (a) and (b):

a) complete 12 credits of course work in addition to the credits otherwise required;

b) write a substantial research paper, in the language of the degree program, acceptable to the Department of Modern Languages and Literatures.

Information about the comprehensive examination is in the section “Academic Regulations and Procedures.”

Courses in the Modern Languages and Literatures Department and the School of Education offered toward the degree must be 700-level courses.

The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Modern Languages and Literatures Department and the head of adolescence education and special subjects in the School of Education.

**CUNY Ph.D.**
The City University of New York offers a doctoral program in French and Spanish. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Modern Languages and Literatures Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Modern Languages and Literatures Department and the executive officer of the doctoral program.

**Courses**
Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

**French**

Unless otherwise noted, courses are conducted in French.

**701X History of the French Language**
30 hours plus conference; 3 credits

Evolution of French from Latin. Phonology, morphology, syntax, semantics. This course is conducted in English.

Prerequisite: one year of college Latin or the equivalent.
703X Introduction to Literary Research
30 hours plus conference; 3 credits
Introduction to bibliographic sources, research materials, and the mechanics of documentation. Principles of literary theory and criticism. Presentation of a written paper.

705X French Literary Movements and Trends
45 hours; 3 credits
A survey of French literary history. A review of all the major periods in French literature. A study of the appearance and development of literary movements, genres, and trends throughout those periods. Short texts and excerpts will be read as illustrations of the different periods and genres studied.

705.1X Francophone Literary Movements and Trends
45 hours; 3 credits
A survey of Francophone literary history. A review of all the major periods in Francophone literature. A study of the appearance and development of literary movements, genres and trends throughout those periods. Short texts and excerpts will be read as illustrations of the different periods and genres studied.

715X Explicating French Literary Works
45 hours; 3 credits
An analysis of major works that are often taught in secondary school curricula, with special attention to developing literary critical perspectives.

717X Grammar and Syntax
30 hours plus conference; 3 credits
Study of linguistic and syntactic patterns with some attention to the historical development of the language. Intensive practice in the written and spoken language.

717.12X Writing and Stylistics
45 hours; 3 credits
Continued practice in French grammar, written expression, stylistics and textual analysis; compositions modeled on selected literary texts.

718X Translation
30 hours plus conference; 3 credits
French-English and English-French translation of short texts from a variety of fields and styles. Analysis of structures and idioms in both languages.

720X French Literature from the Middle Ages
45 hours; 3 credits
Selected masterpieces of French literature from the medieval period, studied within historical and social perspectives
753X Special Topics in Francophone Literature
45 hours; 3 credits
Special topics in Francophone authors or topics from Caribbean, African, European, North American, Asian or Pacific cultures.

753.1X Francophone Poetry
45 hours; 3 credits
Majors writers and trends in Francophone Poetry.

753.2X Francophone Theater
45 hours; 3 credits
A survey of major playwrights and trends in Francophone theater.

753.3X Francophone Novel
45 hours; 3 credits
Selected readings in the Francophone novel.

760X Writings of a Major French Author
45 hours; 3 credits
An in-depth monographic study concentrating either on the works of a major French writer or on one of the masterpieces of French literature.

761X Writings of a Major Francophone Author
45 hours; 3 credits
An in-depth monographic study concentrating either on the works of a major Francophone writer or on one of the masterpieces of Francophone literature.

781X Seminar in Literature
30 hours plus conference; 3 credits
Detailed study of representative authors. Content of the course varies. This course may be repeated for credit. Prerequisite: two graduate courses in French.

790X Thesis Research
15 hours; 1 credit
Research for master's thesis, using primary as well as secondary sources, supervised by a faculty member. Student should consult with the instructor to get approval for a topic immediately upon registration. All work is to be in French. Degree is not earned until thesis is accepted. Students register for this course only once. Prerequisite: permission of the chairperson.

Italian

781X Dante's Divina Commedia
45 hours; 3 credits
A reading of selected Cantos of the Divina Commedia, examined at its multiple levels of meaning, literal and allegorical, theological, political, psychological, and artistic.

Spanish

701X History of the Spanish Language
30 hours plus conference; 3 credits
Evolution of Spanish from Latin. Phonology, morphology, syntax, semantics. This course is conducted in English. Prerequisite: one year of college Latin or the equivalent.

702X Spanish Dialectology: The Language of Spain and the Americas
30 hours plus conference; 3 credits
A historical and linguistic study of the Spanish language in Spain and its present-day variants in Latin America, the Caribbean, and the United States.

703X Introduction to Literary Research
30 hours plus conference; 3 credits
Introduction to bibliographic sources, research materials, and the mechanics of documentation. Principles of literary theory and criticism. Presentation of a written paper.

705X Hispanic Literary Movements and Trends
45 hours; 3 credits
A survey of Hispanic literary history. This course reviews all the major periods in Hispanic literature in both continents and also studies the appearance and development of literary movements, genres, and trends throughout those periods. Short texts and excerpts will be read as illustrations of the different periods and genres studied.

705.1X, 705.2X Hispanic Literary Movements and Trends
30 hours plus conference each term; 3 credits each term
A survey of Hispanic literary history. A review of all major periods in Spanish peninsular literature and a study of the appearance and development of literary movements, genres, and trends throughout those periods. Short texts and excerpts will be read as illustrations of the different periods and genres studied.

715X Spanish Prose and Poetry of the Golden Age
30 hours plus conference; 3 credits
Sixteenth- and seventeenth-century prose and poetry from La Celestina to La vida es sueño.

717X Grammatical and Syntactical Analysis
30 hours plus conference; 3 credits
Advanced analysis of grammatical and syntactical problems. Special attention will be paid to providing the knowledge of grammar and syntax needed to teach the Spanish language.
717.12X Writing and Stylistics  
30 hours plus conference; 3 credits  
Continued practice in written expression and in textual  
analysis for heritage and nonheritage speakers; compositions  
modeled on selected literary texts.  
Prerequisite: Spanish 717X or permission of the chairperson.

722X Cervantes  
30 hours plus conference; 3 credits  
Narrative prose of Cervantes. The Quijote.

725X The Spanish Comedia  
30 hours plus conference; 3 credits  
Early developments. The plays of Lope, Tirso, and Calderón.

731X Hispanic Short Narrative  
30 hours plus conference; 3 credits  
A study of short narrative written in the Spanish language,  
including the essay.

735X Explicating Hispanic Literary Works  
30 hours plus conference; 3 credits  
An analysis of major works that are often taught in secondary  
school curricula, with special attention to developing literary  
critical perspectives.

742X Spanish Novel of the Nineteenth Century  
30 hours plus conference; 3 credits  
Development of the Spanish novel from Romanticism through  
Realism to Naturalism.

749X Contemporary Hispanic Poetry  
30 hours plus conference; 3 credits  
Major writers and trends in Latin American and Peninsular  
poetry from Modernismo to the present. (Not open to students who have  
completed Spanish 752X.)

751.3X Peninsular Hispanic Culture  
30 hours plus conference; 3 credits  
Aspects of contemporary peninsular Spanish culture and  
civilization and their relation to historical influences. Emphasis on  
the intellectual and artistic achievements of the Spanish  
people as well as their political and social institutions.

751.4X Latin American Culture  
30 hours plus conference; 3 credits  
Perceptions and values as expressed in the arts as well as in  
political and social institutions. Emphasis on manifestations of  
Hispanic, indigenous, and African values in the area as a whole  
as well as in its separate regions.

753.11X Language and Technology  
45 hours; 30 hours multimedia laboratory; 3 credits  
A systematic approach to multimedia resources for students  
and teachers of Languages Other Than English. Audiovisual  
materials (audio documents, films, and videos), software  
programs, electronic dictionaries. Audio, video, CD-ROM  
format and the Web information materials, news and other  
original texts in foreign languages in formats other than  
printed media. Use of e-mail as a teaching tool. Use of the  
Web as an environment for learning and teaching foreign  
languages. Development of classroom activities using  
multimedia technologies. To be taught in English.

754X Contemporary Hispanic Theater  
30 hours plus conference; 3 credits  
Major playwrights and trends in Latin American theater from  
the 1930s to the present. (Not open to students who have completed Spanish 752X.)

756X Contemporary Spanish Novel  
30 hours plus conference; 3 credits  
Major novelists from the Generation of 1898 to the present.

759X Latin American Novel of the  
Nineteenth Century  
30 hours plus conference; 3 credits  
Romantic and Realist movements.

759.1X Contemporary Latin American Novel  
30 hours plus conference; 3 credits  
Aspects of the novel from the Modernist period to the present.

763X Studies in Latin American Colonial Literature  
30 hours plus conference; 3 credits  
Developments through the eighteenth century.

Brooklyn College Summer Institute for  
Teachers in Madrid, Spain  
The Brooklyn College Summer Institute for Teachers in Madrid,  
Spain, is a three-week summer program held in conjunction  
with the Fundación José Ortega y Gasset, a fully accredited  
academic institution. The program provides courses in language  
and culture for secondary school teachers of Spanish and  
graduate students in Spanish.

770X Problems in Advanced Spanish Grammar  
30 hours plus conference; 3 credits  
Detailed study of specific problems related to the study and  
teaching of Spanish syntax, orthography, and phonetics, with  
an emphasis on oral and written communication in the  
language. Content varies. Course may be repeated provided  
the topics and materials are different. This course is only  
offered at the Brooklyn College Summer Institute for Teachers  
in Madrid, Spain.
771X Studies in Contemporary Spanish Language
30 hours plus conference; 3 credits
Detailed analysis of specific aspects of current oral and written usage in Spanish as manifested in a wide variety of vehicles of communication ranging from the personal to the public, with an emphasis on practical and pedagogical applications of a diversity of linguistic registers and modes. Content varies. Course may be repeated provided the topics and materials are different. This course is only offered at the Brooklyn College Summer Institute for Teachers in Madrid, Spain.

772X Aspects of Spanish Culture and the Arts
30 hours plus fieldwork; 3 credits
Detailed, interdisciplinary study of specific aspects of the Spanish cultural heritage in relation to one or more of the performing and visual arts such as music, theater, film, television, painting, sculpture, and architecture, with attention to the potential incorporation of the arts into the Spanish classroom. Excursions, museum visits, live performances, films. Content varies. Course may be repeated provided the topics and materials are different. This course is only offered at the Brooklyn College Summer Institute for Teachers in Madrid, Spain.

773X Studies in Contemporary Spanish Culture
30 hours plus fieldwork; 3 credits
Detailed analysis of particular aspects of specific cultural manifestations and trends in present-day Spain as independent phenomena as well as within a larger global context, as manifested in the media, the arts, narrative fiction, and the essay, with attention to the potential incorporation of such subjects into the Spanish classroom. Content varies. Course may be repeated provided the topics and materials are different. This course is only offered at the Brooklyn College Summer Institute for Teachers in Madrid, Spain.

778X Seminar in Writing and Stylistics
30 hours plus conference; 3 credits
Development of individual and creative written expression in Spanish through a detailed examination of carefully selected critical and literary texts, reinforced by theoretical and pedagogical considerations designed to further the incorporation of a variety of writing skills and techniques into the classroom. Content varies. Course may be repeated provided the topics and materials are different. This course is only offered at the Brooklyn College Summer Institute for Teachers in Madrid, Spain.

779X Seminar in Hispanic Cultures
30 hours plus fieldwork; 3 credits
Detailed exploration of a specific aspect of Spanish culture within the context of Latin American cultures of the Western Hemisphere, with an emphasis on the commonality as well as the diversity of the Hispanic heritage and the potential incorporation of such themes into the Spanish classroom. Content varies. Course may be repeated provided the topics and materials are different. This course is only offered at the Brooklyn College Summer Institute for Teachers in Madrid, Spain.

781X Seminar in Literature
30 hours plus conference; 3 credits
Detailed study of representative authors. Content of the course varies. This course may be repeated for credit. Prerequisite: two graduate courses in Spanish.

799G Thesis Research
Hours to be arranged; 1 credit
Research for the master's thesis supervised by a faculty member. Degree is not earned until thesis is accepted. Students register for this course only once. Prerequisite: permission of the chairperson.
Music

Conservatory office: 422 W hitehead Hall
Telephone: 951-5286, 951-5287, 951-5954

Director: Bruce C. MacIntyre
Assistant Director for Graduate Studies: Stephanie Jensen-Moulton
Professors: Allen, Atlas, Barrett, Hager, Hedwig, Kawasaki, León, MacIntyre, Oppens; Assistant Professors: Palmquist, Rothman, Taylor, Washington; Associate Professors: Eckardt, Grubbs, Jensen-Moulton, Moss; Lecturer: Cohen.

M.A. in music
HEGIS code 1005; SED program code 02020

Students choose a concentration in one of the following: musicology or performance practice. The master of arts degree in music, musicology concentration is for the student who wishes to focus on music scholarship. With a breadth of graduate seminars that engage topics ranging from art music to jazz and popular music to ethnomusicology, graduate students in musicology can fully explore their interests before beginning thesis research. Thirty credits in graduate level music courses and a thesis are required, or students can complete 36 credits without a thesis.

The master of arts degree in music, performance practice concentration is geared to the performer who wishes to focus on scholarship as it applies to their instrument. Often students choose to specialize in the performance practices of one historical period, such as the Baroque era or twentieth–twenty-first century extended techniques. The student is required to complete 30 credits in graduate level music courses and a combined written thesis and recital.

Matriculation requirements
Applicants must offer at least 36 credits in music courses including courses in analysis, counterpoint, harmony, and history.

Consideration is given to applicants who do not meet course requirements but have unusual talent or experience equivalent to course work. Such applicants should consult the assistant director.

A placement examination is given to all applicants for admission. The test includes writing skills (harmonic and contrapuntal techniques), analysis, history, and literature. Further information about the examination may be obtained from the assistant director.

Applicants who intend to concentrate in performance practice must pass an audition at the time of application. A request for an audition appointment may be made by telephone to the conservatory office.

Applicants in performance practice must also submit one paper on a historical or analytic topic.

Applicants who intend to concentrate in musicology must submit with the application two papers on either historical or analytic subjects.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements
Thirty credits are required for the degree in performance practice. Thirty credits and a thesis or 36 credits and no thesis are required for the degree in musicology.

Before completing 12 credits, students must pass a test given by the conservatory in French, German, or another language approved by the assistant director. Students who completed their bachelor's degree using a modern language other than English may be exempted from this language examination by the assistant director.

Students must pass a comprehensive examination. Information about requirements for the comprehensive examination and thesis is in the section "Academic Regulations and Procedures:"

Courses in the conservatory offered toward the degree must be 700-level courses. The program of study must be approved by the conservatory. Students must also complete requirements in one concentration as follows. Any remaining credits required for the degree must be in courses chosen in consultation with the assistant director.

Musicology (22–28 credits): Music U700G; Music U740G; four courses chosen from Music U760.1G through U765.1X, U784X, U785X, and 786X, to include two seminars in history and one in theory; and one course chosen from Music 770X through 778X. Students may submit a thesis acceptable to the conservatory or complete specified required courses in lieu of a thesis. Students who choose to write a thesis must complete Music U793X. Students who do not choose to write a thesis must complete three courses chosen from Music U760.1G through U765.1X, U784X, 785X, and 786X.

Performance practice (30 credits): Music 700G, Music U740G; two courses chosen from Music U760.1G through Music U765.1X, and 786X; three courses chosen from Music 770X through 778X; Music 779.1X, 779.2X, U784X, U793X; and Music U706G or U791.3X or another elective approved by the assistant director. Students must present a combined written thesis and recital.

Master of music in composition
HEGIS code 1004.10; SED program code 88183

Master of music in performance
HEGIS code 1004; SED program code 88184

Separate programs are offered in composition and in performance, each of which leads to the master of music degree. The 30-credit master of music degree program in composition is for the composer who seeks advanced study in composition. A key feature is weekly private composition lessons (for four semesters) with a member of our internationally acclaimed faculty. Residencies are available within the Conservatory's numerous ensembles and the orchestra, and a broad range of compositional styles is
encouraged. Two concerts per semester exclusively feature the work of Conservatory students. Students also complete a minimum of three seminars in style criticism, music history, and music theory.

The 30-credit master of music degree program in performance is designed for the student who wishes to pursue a career as a professional instrumentalist or singer. A key component of this program is weekly private studio lessons for four semesters with our internationally acclaimed performance faculty. These lessons are augmented by performance opportunities within the Conservatory's ensembles and student concerts, which include two staged operas each year and numerous orchestra and contemporary ensemble performances. Students also complete a minimum of three seminars in style criticism, music history, and music theory.

**Matriculation requirements**

Applicants for either program must offer at least 36 credits in music courses including courses in analysis, counterpoint, harmony, and history.

Consideration is given to applicants who do not meet course requirements but have unusual talent or experience equivalent to course work. Such applicants should consult the assistant director.

A placement examination is given to all applicants for admission. The test includes writing skills (harmonic and contrapuntal techniques), analysis, history, and literature. Further information about the examination may be obtained from the assistant director.

Applicants for the program in composition must submit a completed composition or compositions, which should be sent to the assistant director at the time of application. Applicants for the program in performance must pass an audition at the time of application. A request for an audition appointment may be made by telephone to the conservatory office.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**

Thirty credits are required for the master of music degree either in composition or performance.

Before completing 12 credits, students must pass a test given by the conservatory in French, German, or another language approved by the assistant director. Students who completed their bachelor's degree using a modern language other than English may be exempted from this language examination by the assistant director.

Students must pass a comprehensive examination. Information about requirements for the comprehensive examination is in the section “Academic Regulations and Procedures.” Courses in the conservatory offered toward the degree must be 700-level courses. The program of study must be approved by the conservatory.

Students must also complete requirements for the program in composition or in performance as follows. Any remaining credits required for the degree must be in courses chosen in consultation with the assistant director.

**Composition** (22 credits): Music U732.1X, U732.2X, U732.3X, U740G; one course chosen from Music U760.1G-U760.6G, U763.1G, U765X, U765.1X, 786X; one course chosen from Music U763.2G, U764.1X, U764.2X, U764.3X; one course chosen from Music 770X through 778X; and Music U794G. Students must submit a master's composition project.

**Performance** (25 credits): Music U740G; one course chosen from Music U760.1G-U760.6G, U763.1G, U765X, U765.1X, 786X; one course chosen from Music U763.2G, U764.1X, U764.2X; four courses chosen from Music 770X through 778X; and Music 779.1X, 779.2X, 779.3X, U795G. Students must perform a master's recital.

**Recommendation**

Composition majors interested in electronic music who take Music U732X should also consider taking Music U737.1G and U737.2G.

Music majors aiming toward professional careers as performers are strongly urged to take additional ensembles each semester, including at least two terms of Music 774.1X, 774.2X, 774.3X, 774.5X or 778X (i.e., Contemporary Music Ensemble, Brass Ensemble, Woodwind Chamber Music, Small Jazz Ensemble, or Jazz Ensemble).

**Performance faculty**

See the faculty listing beginning on page 250 for further information about the following full-time and part-time performance faculty.

**Brass**

E. Allen, Bonvissuto, Braverman, Hedwig, O ldham, M. Powell, Rojas.

**Brooklyn College Chorus**

Ferrell.

**Chamber Chorus**

Ferrell.

**Conducting**

Ferrell, Barrett, Hedwig, León, Rothman.

**Contemporary Music Ensemble**

Oppens.

**Guitar**

Frandsen.

**Harp**

Cutler.

**Jazz Ensembles**

Corn, W ashington.

**Opera Theater**

Barrett.

**Orchestra**

Barrett, Rothman.
Percussion Ensemble
Cassara.

Piano/Organ/Accompaniment
Biegel, Diez, Eguchi, Freyberg, Kaminski, Kent, Lewis, Oppens, Parodi.

Piano Technician
Wood.

Strings
Chai, Feldman, Gallagher, Hirsh, Ivanov, Kang, Kawasaki, Kopec, Morris, Panteleyev, Reichert, Salas, Tanaka, Zlotkin.

Timpani and percussion
Cassara.

Voice
Barrett, Birnbaum, Cultice, Dunn, Forderhase, Gubrud, Harte, Makarina, McCaffrey, Schnaible, Sperry, Woodruff.

Wind Ensemble
Moss.

Woodwinds
Begelman, Botti, Christensen, P. Cohen, Coleman, Corn, Ellis, Goldberg, Gould, Ingliss, Jones, Lucarelli, Moss, Spellman, Jane Taylor, W. Washington.

M.A., music teacher (all grades)
HEGIS code 0832; SED program code 26816

The master of arts, music teacher degree is for certified music educators who are working towards their permanent certification. Students in the M.A., music teacher program have the opportunity to explore musical topics beyond the realm of music education by participating in graduate seminars in music history, music theory, performance practice, and conservatory ensembles, while taking advanced courses in the history and theory of music education. 30 credits in graduate level music courses are required. (Graduate level School of Education courses may be used as electives.) Students can either complete a thesis or education project, or complete 33 credits without a project. The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the program adviser in the School of Education for the current requirements.

Matriculation requirements
In addition to meeting the general matriculation and admission requirements of the Division of Graduate Studies, applicants must hold either a B.A. in music teaching or a B.Mus. in music education. Also eligible to apply are (a) students holding other music bachelor's degrees with sufficient course work in education and music education to be permitted to take student teaching, or (b) students holding a bachelor's degree with at least 36 credits in music courses, including an array of analysis, counterpoint, harmony, history, conducting, performance, education, and music education courses sufficient for admission to student teaching in music. Requirements for student teaching are available from the coordinator of music education. Applicants must submit scores on the Liberal Arts and Science Test (L.A.S.T.). Applicants must have a minimum undergraduate grade point average of 3.00. International applicants for whom English is a second language must have attained a TOEFL score of 550 or better to be considered for admission. Applicants must pass a performance audition and music education interview and submit a portfolio including such items as résumé, writing sample, and evidence of teaching experience. A placement examination covering music history, theory, and analysis is given to all applicants for admission. Further information about the examination is available from the assistant director of the Conservatory of Music.

The student's program must be planned and approved by the coordinator of music education and approved by the assistant director. Courses in the conservatory offered toward the degree must be 700-level courses.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements
Thirty to 33 credits are required for the degree. The following courses are required:

1. Music U740G.
2. One course chosen from Music U760.1G-U760.6G, U763.1G, U765X, U765.1X, or U786X.
3. One course chosen from Music U763.2G, U764.1X, U764.2X.
4. Two courses chosen from Music 770X through 778X.
5. One course chosen from Education 724.12T, Music U700G, or Music U701T.
6. Music U720.1X and U717T.
7. One course chosen from Music 710.1X, 712.1X, 712.2X, 715T, 763.3X.
8. Four credits in music, music performance (studio lessons and/or ensembles), music education, or education electives.
9. Thesis (Music U793X) or Music Education Master's Project (Music U792T) or an additional 6 credits in music, music performance (studio lessons and/or ensembles), music education, or education electives.

Students must pass a comprehensive examination. Information about requirements for the comprehensive examination is in the section "Academic Regulations and Procedures."

Advanced Certificate in music education
HEGIS code 0832; SED program code 26817

The advanced certificate in music education is for the student with an undergraduate music degree who wishes to teach music in the New York State public school system. This course of study meets the curricular requirements for initial certification in New York State. Twenty-one credits, one hundred field

180 Music
hours, and forty days of student teaching are required for the certificate. The courses required by the School of Education may vary depending on the entry qualifications of students. All students should consult with the School of Education for the current requirements.

**Matriculation requirements**

Applicants must offer a B.Mus., or a B.A. or B.S. in music, or the equivalent from an accredited college or university completed with a grade point average of 3.00 or higher. Applicants must also offer course work including the liberal arts and sciences, one course in human development (child and adolescent development), and one course in philosophy of education. Matriculation is contingent upon admission to Brooklyn College and admission to the Conservatory of Music, including music performance audition, music education interview, theory/aural skills test, and transcript review, submission of Liberal Arts and Science Test (L.A.S.T.) scores, and TOEFL score of 550 or above if required.

**Certificate requirements**

Twenty-one credits are required for this certificate. The following courses are required.  
Music 651T; Music 658.1T; Music 658.2T; Music 658.3T; three courses chosen from Music 660.1X-666.1X; Music 720.1X; Education 665X; and Education 665.1X.

**CUNY Ph.D.**

The City University of New York offers a doctoral program in musicology, ethnomusicology, theory, composition, and performance. General information about CUNY Ph.D. and D.M.A. programs is in the chapter “Support for Academic Success in Graduate School.” Conservatory of Music courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the assistant director of The Conservatory of Music and the executive officer of the doctoral program.

**Walter W. Gerboth Music Library**

Named in honor of its principal founder and first librarian, respected teacher and scholar Walter W. Gerboth, the library offers facilities for music study, research, and listening. The music library is located on the second floor of the Brooklyn College Library.

Established more than forty years ago and augmented by substantial bequests, the collection comprises scores, collected works, phonograph recordings, tapes, compact discs, music and dance video cassettes, CD-ROMs, playback equipment for on-site listening, and general and specialized books about music and dance as well as a fine selection of periodicals, yearbooks, and online music reference works. Subject strengths lie in American music and performance scores. The collection is complemented by that of the Institute for Studies in American Music, 415 Whitehead Hall.

**Courses**

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

**604T Music for the Classroom Teacher**

45 hours; 3 credits  
Development of the musical background of the elementary school teacher. Exploration, presentation, and discussion of approaches to teaching music in elementary school. Demonstration of the techniques of Orff, Kodaly, and others. Listening and performing activities.

**651T Music Education Colloquium**

15 hours, 20 hours fieldwork; 0 credits  
A colloquium for music education majors. Guest speakers, student and faculty presentations, discussions on current topics in music education. Required of music education majors each semester. Field experience in the public schools. Assigned grades of P or F.

**658.1T Music in the Elementary School**

45 hours, 30 hours supervised field experience; 3 credits  
Study of techniques, methods, and materials used in teaching music in the elementary schools including instruction for pre-kindergarten children. Development and application of music, teaching, and observation skills; assessment and organization in the context of the overall elementary school music program; child development; diversity. Includes observation and supervised teaching in public schools.  
Prerequisite: permission of the director.  
Corequisite: Music 651T.

**658.2T Music in the Secondary School**

45 hours, 15 hours field experience; 3 credits  
Study of techniques, methods, and materials used in teaching music in diverse, multicultural secondary schools, including choral and instrumental ensembles and general music courses. Recruitment, curriculum, materials analysis, assessment, adolescent development, technology, special learners, and current issues. Includes supervised field experience in public schools.  
Prerequisite: permission of the director.  
Corequisite: Music 651T.

**658.3T Music in Special Education**

45 hours, 15 hours field experience; 3 credits  
Techniques, methods, and materials used in teaching music to special learners of different ages and developmental levels, especially in an inclusive classroom setting. Current issues. Field experience.  
Corequisite: Music 651T.
660.1X Voice Production
30 hours; 2 credits
Technique of singing. Proper breathing, tone placement, legato scale, agility exercises. Attention to individual needs. Phrasing, diction, interpretation.
Prerequisite: an introductory course in sightsinging and dictation or permission of the director.

661.1X String Class: Violin and Viola
45 hours; 1 credit
Tuning, bowing, and positions for violin and viola. Practice in reading simple compositions. For beginners. Primarily for use in public school teaching. No previous knowledge of a stringed instrument required.
Prerequisite: Ability to read music and permission of the director. Corequisite: Music 651T.

662.1X String Class: Violoncello and Bass Viol
45 hours; 1 credit
Tuning, bowing, and positions for bass viol and violoncello. Practice in reading simple compositions. For beginners. Primarily for use in public school teaching. No previous knowledge of a stringed instrument required.
Prerequisite: ability to read music and permission of the director. Corequisite: Music 651T.

663X Woodwind Class
45 hours; 1 credit
Mechanism, embouchure, and tone production of the flute, oboe, clarinet, bassoon. Practice in reading simple compositions. For beginners. No previous knowledge of a woodwind instrument is required. Primarily for use in public school teaching.
Prerequisite: ability to read music and permission of the director. Corequisite: Music 651T.

664X Brass Class
45 hours; 1 credit
Fingering, embouchure, and tone production of the trumpet, French horn, trombone, tuba. Practice in reading simple compositions. For beginners. No previous knowledge of a brass instrument is required. Primarily for use in public school teaching.
Prerequisite: ability to read music and permission of the director. Corequisite: Music 651T.

665X Percussion Class
45 hours; 1 credit
Principles of percussion technique. Practice in reading simple compositions. For beginners. No previous knowledge of a percussion instrument is required. Primarily for use in public school teaching.
Prerequisite: ability to read music and permission of the director. Corequisite: Music 651T.

666.1X Fretted Instrument Class
45 hours; 1 credit
Tuning, sound production, and positions for fretted instruments (guitars and lutes). Practice in reading simple compositions. Primarily for use in public school teaching. No previous knowledge of a fretted instrument is required.
Prerequisite: ability to read music and permission of the director. Corequisite: Music 651T.

U700G Bibliography and Research Techniques
45 hours; 3 credits
Study and evaluation of sources and bibliographical methods.

U701T Music Education Research Methods
45 hours; 3 credits
Introduction to music research. Reading, evaluating, applying music education and related research findings. Research techniques in music education. Includes data collection, codification, interpretation.
Prerequisite: permission of the director.

710.1X Choral Workshop
45 hours; 3 credits
Literature and technique pertaining to the development of school choral groups, including preparation and presentation of choral works for school choral ensembles.
Prerequisite: an undergraduate course in conducting or permission of the director.

712.1X Instrumental Workshop: Strings
45 hours; 3 credits
Techniques of playing the violin, viola, violoncello, string bass. Materials and repertoire for school string ensembles. (Not open to students who have completed Music 712X.)
Prerequisite: an undergraduate course in conducting or permission of the director.

712.2X Instrumental Workshop: Woodwinds and Brass
45 hours; 3 credits
Techniques of playing woodwind and brass instruments. Materials and repertoire for school wind ensembles.
Prerequisite: an undergraduate course in conducting or permission of the director.

715T General Music in Elementary and Secondary Schools
45 hours; 3 credits
Schools of thought related to teaching general music in elementary and secondary schools. Survey of appropriate classroom materials.
Prerequisite: permission of the director.
717T Foundations and Methods of Music Education
45 hours; 3 credits
Philosophical and historical foundations of music education. Methods, techniques, independent projects.
Prerequisite: permission of the director.

720.1X Conducting and Rehearsal Techniques
45 hours; 3 credits
Intensive practical instruction in conducting, rehearsal techniques, and materials applicable to vocal and instrumental performance ensembles in the public schools. Emphasis on conducting; score study; rehearsal planning, organization, and pacing; error detection and correction; student motivation; repertoire and concert programming; music performance curriculum; large and small choral and instrumental ensembles. Techniques for teaching heterogeneous choral and instrumental courses. Field observations and fieldwork in the public schools.
Prerequisite: permission of the director.

720.2X Advanced Conducting Seminar
45 hours; 3 credits
Conducting and rehearsing choral and instrumental literature in a laboratory setting.

731X Compositional Techniques
45 hours; 3 credits
Writing in various styles and media for the noncomposition major. (Not open to composition majors).
Prerequisite: permission of the director.

U732.1X, U732.2X, U732.3X Seminar in Composition I, II, III
45 hours each term; 3 credits each term
Original writing in various media, instrumental and vocal.
Prerequisite of U732.1X: permission of the director.
Prerequisite of U732.2X: Music U732.1X and permission of the director.
Prerequisite of U732.3X: Music U732.2X and permission of the director.

735T Vocal and Instrumental Arranging
45 hours; 3 credits
Practical work in scoring for various ensembles. Independent projects.
Prerequisite: permission of the director.

U737.1G Computer Music I
45 hours; 3 credits
Fundamentals of computer use in music composition. Techniques of additive synthesis. Chowning frequency modulation, waveshaping. Completion of a short work is required. Computer facilities are available for student use. (Not open to students who have completed Music 737G.)

U737.2G Computer Music II
45 hours; 3 credits
Application of digital signal processing techniques to music composition. Computer analysis of sound and speech, digital filtering techniques, computer speech synthesis. Completion of a short work is required. Computer facilities are available for student use.

738X Jazz Arranging
45 hours; 3 credits
Practical work in scoring for various jazz ensembles.
Prerequisite: permission of the director.

U740G Seminar in Style Criticism
45 hours; 3 credits
The nature of musical style. Study of selected works, composers, schools of composition, historical eras.

U754X Seminar in Advanced Musicianship: Jazz
45 hours; 3 credits
Work in advanced ear-training, harmonic function, chordal progression, blues patterns, and vocabulary of jazz; aural and written transcriptions of improvisations; principles of major/minor, modal, pentatonic, altered, and whole-tone scale constructions; exploration of the relationship between improvisation and harmonic context.
Prerequisite: permission of the director.

The following Music seminars may be repeated for credit with a different topic, as indicated in the Schedule of Classes and approved by the director:
Music U760.3G–U760.6G Seminar(s) in Music History;

U760.3G, U760.4G, U760.5G, U760.6G Seminar in Music History
45 hours each term; 3 credits each term
Investigation of general principles and specific phenomena pertaining to the period. Independent research. Topic to be announced.
U760.3G Baroque Era (1600 to 1750)
U760.4G Classic Era (1750 to 1820)
U760.5G Romantic Era (1820 to 1900)
U760.6G Twentieth Century
Prerequisite: Music U740G or the equivalent.

U763.1G Special Topics Seminar: History
45 hours; 3 credits
Intensive historical studies. Examination and evaluation of original sources. Topic to be announced.
Prerequisite: Music U740G or permission of the director.
U763.2G Special Topics Seminar: Theory
45 hours; 3 credits
Intensive theoretical studies. Examination and evaluation of original sources. Topic to be announced.
Prerequisite: Music U740G or permission of the director.

U763.3X Special Topics Seminar: Music Education
45 hours; 3 credits
Intensive study of specific issues and approaches in music education.
Prerequisite: permission of the director.

U763.4X Special Topics Seminar: Performance
45 hours; 3 credits
Intensive studies in music performance. Topic to be announced. May be repeated for credit with a different topic.
Prerequisite: permission of the director.
Prerequisite or corequisite: Music U740G.
Corequisite: Music U779.1X, U779.2X, U779.3X, or U795G.

U764.1X Seminar in Music Theory: Analysis of Tonal Music
45 hours; 3 credits
Intensive analysis of tonal music. Developing adequate theoretical concepts and analytic techniques.

U764.2X Seminar in Music Theory: Analysis of Twentieth-Century Music
45 hours; 3 credits
Intensive analysis of twentieth-century music. Developing adequate theoretical concepts and analytic techniques.

U764.3X Seminar in Music: Philosophy of Music
45 hours; 3 credits
Critical examination of philosophical issues pertaining to music. Consideration of such issues as: the definition or concept of music, the ontology of music, musical meaning and understanding, musical expressiveness and arousal, musical representation, musical performance and authenticity of performance, the power and value of music, and the aesthetics of jazz, rock, and popular music. Classical and contemporary philosophers. This course is the same as Philosophy 722.3X.
Prerequisite: one course in philosophy or one course in music or permission of the chairperson of Philosophy or Music.

U765X Seminar in American Music
45 hours; 3 credits
American music from the colonial period to the present. Topic to be announced.
Prerequisite: Music U740G or the equivalent.

765.1X Seminar in Jazz History
45 hours; 3 credits
Selected topics in the history of jazz, from its origins to the present. Research and analysis of recordings, transcriptions, and arrangements. Emphasis on social and cultural context. Students may take this course for credit twice, but may not repeat topics.
Prerequisite: Music U740G or the equivalent

Music 770X through 778X may be taken for credit each term the student is enrolled.

770X Opera Workshop
45 hours; 1 credit
Study and performance of scenes from operas and operettas. Fundamentals of operatic technique. Coordination of singing and stage movement.
Prerequisite: audition.

771X Chorus
45 hours; 1 credit
Study and performance of choral literature for mixed voices. Prerequisite: audition.

771.1X Chamber Chorus
45 hours; 1 credit
Study and performance of chamber chorus literature for mixed voices.
Prerequisite: audition.

772X Percussion Ensemble
45 hours; 1 credit
Study and performance of music for percussion ensemble.
Prerequisite: audition.

774X Chamber Music
45 hours; 1 credit
Study and performance of the standard repertoire.
Prerequisite: At least two terms (in any combination) of Music 774.1X, 774.2X, 774.3X, 774.5X, or 778X; and permission of the director.

774.1X Contemporary Music Ensemble
45 hours; 1 credit
Study and performance of contemporary music.
Prerequisite: audition.

774.2X Brass Ensemble
45 hours; 1 credit
Experience for both small and large chamber groups in the study and performance of traditional and contemporary music for brass instruments. Emphasis on developing basic musicianship through systematic work on intonation, phrasing, balance, and interpretation. Study of brass instrument history, technique, repertoire, and pedagogy.
Prerequisite: audition.
Woodwind Chamber Music
3 hours; 1 credit
Study and performance of music for woodwind chamber ensembles.
Prerequisite: audition.

Orchestra
45 hours; 1 credit
Study and performance of new and old literature.
Prerequisite: audition.

Wind Ensemble
45 hours; 1 credit
Study and performance of new and old literature.
Prerequisite: audition.

Jazz Big Band
45 hours; 1 credit
Study and performance of new and old jazz literature.
Prerequisite: audition.

Small Ensemble Jazz
45 hours; 1 credit
Study and performance of music for small jazz combo, including practical experience with jazz improvisation techniques and styles.
Prerequisite: audition.

Performance I, II, III
45 hours each term; 3 credits each term
Advanced performance in voice or an instrument. One hour a week of individual instruction. Weekly performance seminar.
Prerequisite of 779.1X: audition and permission of the director.
Prerequisite of 779.2X: Music 779.1X and audition and permission of the director.
Prerequisite of 779.3X: Music 779.2X and audition and permission of the director.
Corequisite of 779.1X, 779.2X, 779.3X: an ensemble performance course (Music 770X–778X) as assigned through audition and permission of the director.

Piano Repertory Class
30 hours; 0 credit
Study of solo piano repertoire from the 1600s to the present through critique of student performance. Piano history, literature, performance practice, and performance. Practical application in solo performance settings as assigned. May be taken more than once.
Prerequisite: permission to take Music 779.1X-779.3X, U795G, or permission of the director.
Corequisite: Music 779.1X-779.3X, or U795G, as applicable.

String Repertory Class
30 hours; 0 credit
Performance by string majors of solo and chamber music repertory in a master-class setting. Guided discussion of important issues and areas of technique and interpretation to enhance optimal performance, increase self-confidence, and eliminate performance anxiety. Constructive observations and suggestions from class members, string faculty, and invited guests. Required of all string majors.
Prerequisite: permission of the director.
Corequisite: a course in the Music 779X sequence or Music 795X.

Accompanying at the Keyboard I
30 hours recitation, minimum 30 hours practicum; 3 credits
Skills for instrumental and vocal accompanying at the keyboard. Repertory includes instrumental sonatas, vocal songs, and orchestra reductions of string, wind, operatic, and choral literature. Transposition and score reading at sight. Practical application in performing situations, as assigned.
Prerequisite: Music 779.1X (in piano, organ, or harpsichord) and permission of the director.

Seminar in Performance Practices
45 hours; 3 credits
Study of documents and instruments concerning the authentic performance practice of music from the seventeenth century through the twentieth century. Topic to be announced.
Prerequisite: Music U740G or the equivalent.

Ethnomusicology
45 hours; 3 credits
Instruction in ethnomusicological research techniques through study of a special culture or group.
Prerequisite: Music U740G or the equivalent.

History of Jazz
45 hours; 3 credits
Survey of styles, genres, and forms of jazz from its origin to the present. Analysis of selected works.
Prerequisite: Music U740G or the equivalent.

Music Internship
45 hours fieldwork; 1 credit
Supervised on- or off-campus work at least three hours per week in an office or classroom of a business, educational facility, or other agency providing professional experience in music, music performance, music education, or music research. Submission of a critical report on the experience. This course may be taken for credit twice, but students may not offer more than six credits from Music 788.1X, 788.2X, and 788.3X toward a degree.
Prerequisite: permission of the director of the Conservatory of Music. Permission requires advance approval from the internship site.
**788.2X Music Internship**  
90 hours fieldwork; 2 credits  
Supervised on- or off-campus work at least six hours per week in an office or classroom of a business, educational facility, or other agency providing professional experience in music, music performance, music education, or music research. Submission of a critical report on the experience. This course may be taken for credit twice, but students may not offer more than six credits from Music 788.1X, 788.2X, and 788.3X toward a degree.  
Prerequisite: permission of the director of the Conservatory of Music. Permission requires advance approval from the internship site.

**788.3X Music Internship**  
135 hours fieldwork; 3 credits  
Supervised on- or off-campus work at least nine hours per week in an office or classroom of a business, educational facility, or other agency providing professional experience in music, music performance, music education, or music research. Submission of a critical report on the experience. This course may be taken for credit twice, but students may not offer more than six credits from Music 788.1X, 788.2X, and 788.3X toward a degree.  
Prerequisite: permission of the director of the Conservatory of Music. Permission requires advance approval from the internship site.

**U791.1X Independent Study**  
Hours to be arranged; 1 credit  
Reading and research supervised by a faculty member.  
Prerequisite: permission of the director.

**U791.2X Independent Study**  
Hours to be arranged; 2 credits  
Reading and research supervised by a faculty member.  
Prerequisite: permission of the director.

**U791.3X Independent Study**  
Hours to be arranged; 3 credits  
Reading and research supervised by a faculty member.  
Prerequisite: permission of the director.

**U792T Master’s Music Education Project**  
Hours to be arranged; 3 credits  
Substantial project in music education supervised by a faculty member. Students register for this course only once. Credit is not earned until the completed project is accepted.  
Prerequisite: approval of plan of work by music education coordinator or permission of the director.

**U793X Thesis Research**  
Hours to be arranged; 3 credits  
Research for master’s thesis supervised by a faculty member. Students register for this course only once. Credit is not earned until the thesis is accepted.  
Prerequisite: permission of the director.

**U794G Master’s Composition Project**  
Hours to be arranged; 3 credits  
Completion of a substantial composition project supervised by a faculty member.  
Prerequisite: approval of plan of work by student’s graduate committee.

**U795G Master’s Recital**  
Hours to be arranged; 3 credits  
Preparation of a master’s recital supervised by a faculty member.  
Prerequisite: approval of program and level of work by the student’s graduate committee. Corequisite: an ensemble course (Music 770X–778X) as assigned through audition and permission of the director.

The following courses are inactive and will be offered only if there is sufficient demand:  

**620.1T Musicianship for the Elementary School Specialist I**  
**620.2T Musicianship for the Elementary School Specialist II**  
**U705G Medieval Notation**  
**U706G Renaissance Notation**  
**734G Music for Dance, Film, and Theater**  
**U752X History of Musical Styles I**  
**U753X History of Musical Styles II**  
**U760.1G Seminar in Music History: Medieval Era (to 1400)**  
**U760.2G Seminar in Music History: Renaissance Era (1400 to 1600)**  
**775X Collegium Musicum**  
**776.2X Theater Orchestra**  
**782.2X Accompanying at the Keyboard II**
**Performance and Interactive Media Arts (PIMA)**

Program office: 505s Whitehead Hall, 255 Gershwin Hall  
Telephone: 951-4203; 951-5000, ext. 1418  
Web: www.interactivearts.org

**Director:** David Grubbs  
**Faculty:** from the Departments of Art, Computer and Information Science, Film, Television and Radio, and Theater, and the Conservatory of Music.

**M.F.A. in performance and interactive media arts (PIMA)**  
**HEGIS code 1099; SED program code 31062**

This four-semester full-time graduate degree program provides students with training, theoretical and technical background, and practical experience in the conceptualization and production of collaborative, multi-disciplinary artworks presented in a performance setting. Students learn to use technology as a means of extending their personal artistic practice and facilitating cross-disciplinary artistic collaborations. Students with diverse academic, artistic, professional, and cultural backgrounds enter the program and work in collaborative groups throughout the course of study, with close mentoring by faculty members. Most students come to the program with an established career or career goal in an arts field, and generally continue in that field after completing the PIMA M.F.A. degree, utilizing the degree for advancement, skills development, or as an entrée into academia. In the second year a major collaborative thesis production is created and presented in a professional venue. The program is a cooperative effort of the Brooklyn College Departments of Art, Computer and Information Science, Television and Radio, and Theater and the Conservatory of Music. The faculty is drawn from all four departments and the conservatory.

**Matriculation requirements**

Applicants must offer a graduate or undergraduate degree from an accredited college or university completed with a grade point average of 3.00 or higher.

Applicants must also offer a portfolio of creative work (which may consist of work in any medium including computer software), letters of recommendation, and TOEFL score of 550 or above, if required. An interview with a member of the selection committee is strongly recommended.

Applicants must obtain and file an application form with the program director in addition to the regular college admission application; both are available online.

Selection of applicants will be based on a faculty committee review of the following: the applicant's creative portfolio, evidence of the applicant's interest in collaborative creative production, letters of reference indicating significant artistic promise, artistic background and experience, and the applicant's interview (if conducted).

A committee chaired by the Program Director will review all applications and make admission decisions based on the criteria stated above.

Students should note additional requirements found in the sections “Admission” and “Academic Regulations and Procedures.”

**Degree requirements**

Students pursuing the M.F.A. will complete a total of 46 credits and a significant thesis production which is a collaboration with at least one other matriculated student.

The following courses are required:

- PIMA 701G; PIMA 702G; PIMA 703G
- PIMA 721G; PIMA 722G; PIMA 723G; PIMA 724G
- PIMA 732.1G; PIMA 732.2G

Three additional credits of independent projects are required, taken under course numbers: PIMA 711G; PIMA 712G; PIMA 713G.

Fifteen additional credits shall be chosen from selected PIMA elective courses offered by: the PIMA program; the departments of Art, Computer and Information Science, Television and Radio, Theater; and the Conservatory of Music. Permission of the PIMA director is required.

To receive the Master of Fine Arts in Performance and Interactive Media Arts, students will be required to complete the program with a grade point average of 3.00 or better.

**Advanced certificate in performance and interactive media arts (PIMA)**  
**HEGIS code 1004; SED program code 27812**

This three-semester, part-time, non-degree advanced certificate program provides students with training, theoretical and technical background, and practical experience in the conceptualization and production of collaborative, multi-disciplinary artworks presented in performance settings. Specifically, students learn to use technology as a means of extending their personal artistic practice and facilitating cross-disciplinary artistic collaborations. Students with diverse academic, artistic, professional, and cultural backgrounds enter the program and work in collaborative groups throughout the course of study, with close mentoring by faculty members.

Most students come to the program with an established career or career goal in an arts field, and generally seek to continue in that field after completing the certificate, utilizing the program for advancement and skills development. The advanced certificate is primarily intended for students already holding the highest degree available in an art-related field who wish to supplement their studies, or students who wish to continue their studies without making the time commitment required by a full-time program, such as the PIMA M.F.A.

All applicants holding a graduate or undergraduate degree, however, are welcome. The program is a cooperative effort of the Brooklyn College Departments of Art, Computer and Information Science, Television and Radio, and Theater and the Conservatory of Music. The faculty is drawn from all four departments and the conservatory.
Matriculation Requirements
Applicants must offer a graduate or undergraduate degree from an accredited college or university completed with a grade point average of 3.00 or higher. Applicants must also offer a portfolio of creative work (which may consist of work in any medium, including computer software), letters of recommendation, and TOEFL score of 550 or above if required. An interview with a member of the selection committee is strongly recommended. Matriculation is contingent upon admission to Brooklyn College.

Applicants must obtain and file an application form with the program director in addition to the regular college admission form.

Selection of applicants is based on a faculty committee review of the following: the applicant's creative portfolio, evidence of the applicant's interest in collaborative creative production, letters of reference indicating significant artistic promise, artistic background and experience, and the applicant's interview (if conducted).

Students should note additional requirements found in the sections “Admission” and “Academic Regulations and Procedures.”

Certificate Requirements
Eighteen credits are required for this certificate. The following courses are required: PIMA 701G, PIMA 702G, PIMA 703G.

Nine additional credits shall be chosen from selected PIMA elective courses offered by the PIMA program; the Departments of Art, Computer and Information Science, Television and Radio, and Theater; and the Conservatory of Music. Permission of the PIMA director is required.

To receive the Advanced Certificate in Performance and Interactive Media Arts, students will be required to complete the program with a grade point average of 3.00 or better and have completed no more than three credits (one course) with a grade less than B.

Courses
The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

701G Sound, Image, Space, and Performance; Interactive Media Programming I
30 hours lecture, 45 hours lab; 3 credits
Combines performance/electronic media production, collaboration theory and lab in interactive media programming. Projects include collaborative performing arts production, and interactive programming projects. Open only to PIMA students.

702G Artistic Process and Contemporary Community: Interactive Media Programming II
30 hours lecture, 45 hours lab; 3 credits
Combines community-based arts theory, collaborative performing arts production in a community venue, and a lab in interactive media programming. Projects include collaborative community production and interactive programming projects. Open only to PIMA students.
Prerequisite: PIMA 701G or permission of the director.

703G Collaborative Interactive Media Performance
45 hours lecture; 3 credits
Development, realization, and documentation of culminating collaborative PIMA project.
Prerequisite: PIMA 702G or permission of the director.

704G Independent Investigations in Interactive Media
45 hours lecture; 3 credits
Directed study in advanced electronic media research or production. Permission of the director of PIMA (and the chair of the instructor's department if the instructor is not PIMA faculty) required. This course may be repeated for credit.
Prerequisite: PIMA 701G or permission of the director.

711G Independent Projects
5 hours, meetings plus independent work; 1 credit
Directed study in advanced electronic media research or production. Permission of the director of PIMA (and the chair of the instructor's department if the instructor is not PIMA faculty) required. This course may be repeated for credit.
Prerequisite: permission of the director.

712G Independent Projects
10 hours, meetings plus independent work; 2 credits
Directed study in advanced electronic media research or production. Permission of the director of PIMA (and the chair of the instructor's department if the instructor is not PIMA faculty) required. This course may be repeated for credit.
Prerequisite: permission of the director.

713G Independent Projects
15 hours, meetings plus independent work; 3 credits
Directed study in advanced electronic media research or production. Permission of the director of PIMA (and the chair of the instructor's department if the instructor is not PIMA faculty) required. This course may be repeated for credit.
Prerequisite: permission of the director.
721G History, Theory, and Criticism
45 hours; 3 credits
Overview of the history, theory, and criticism of contemporary collaborative performance media, including music, theater, dance, radio, performance art, and other forms. Emphasis on investigation of collaborative process, community involvement, and use of technology. Both the creation and presentation of the works will be studied. Extensive research, interviews, and field work.
Prerequisite or corequisite: PIMA 701G or permission of the director.

722G Teaching Practicum
30 hours lecture, 45 hours practical training; 3 credits
Immersive practical university-level teaching course designed for students in terminal degree programs. Syllabus and course schedule design, development of assignments, research, preparation for lectures, and preparation of class materials. Evaluation and outcomes assessment, development of teaching style and classroom personality.
Prerequisite or corequisite: PIMA 701G or permission of the director.

723G Thesis Seminar I
45 hours lecture; 3 credits
Pre-production of collaborative M.F.A. thesis project, including collaborative group formation, script and/or score development, research, design, technical development, documentation planning, and venue research. Community outreach, web presence, grant writing, and publicity.
Prerequisite or corequisite: PIMA 702G or permission of the director.

724G Thesis Seminar II
45 hours lecture and independent work; 6 credits
Production of collaborative M.F.A. thesis project, including production planning and scheduling, rehearsals, design realization, technical realization, documentation, publicity, venue relationship development, community outreach, and personnel management.
Prerequisite or corequisite: PIMA 723G

731.1G, 731.2G Experimental Performance Ensemble
30 hours rehearsal; 1 credit
Participation in an ensemble consisting of artists from all performance media dedicated to creating, rehearsing, and performing works by its members, and developing a repertoire of experimental multimedia works. At least one public performance per semester. Permission of the director of PIMA required. This course may be repeated for credit.
Prerequisite or corequisite: permission of the director.

732.1G, 732.2G Experimental Performance Ensemble and Composition
30 hours rehearsal plus independent work; 2 credits
Participation in and contribution of new works to an ensemble consisting of artists from all performance media dedicated to creating, rehearsing, and performing works by its members, and developing a repertoire of experimental multimedia works. At least one public performance per semester. Permission of the director of PIMA required. This course may be repeated for credit.
Prerequisite or corequisite: PIMA 701G or permission of the director.

733.1G, 733.2G Experimental Performance Ensemble Direction
30 hours rehearsal, plus ensemble direction; 3 credits
Direction of, participation in, and contribution of new works to an ensemble consisting of artists from all performance media dedicated to creating, rehearsing, and performing works by its members, and developing a repertoire of experimental multimedia works. At least one public performance per semester. Permission of the director of PIMA required. This course may be repeated for credit.
Prerequisite or corequisite: permission of the director.

799G Special Topics in Performance and Interactive Media
45 hours lecture; 3 credits
Special topics in performance and interactive media research or production. Course descriptions vary by semester. This course can be repeated for credit. Permission of the director of PIMA required.
Prerequisite: permission of the director.
Philosophy
Office: 3308 Boylan Hall
Telephone: 951-5311
Chairperson: Emily P. Michael
Professors: Adler, Funk, Michael, Nuzzo;
Associate Professors: Kemp, Lurz, Vasiliou;
Assistant Professors: Arlig, Campos, Menser, Moore, Schwab, Sinclair, Trivedi, Vitrano;
Lecturer: Repetti.

The Department of Philosophy acquaints students with the variety of viewpoints in historical and current philosophical literature on fundamental, perennial questions concerning morality, ethics, knowledge, and aesthetics as well as the concepts, theories, methodologies, and moral issues of the natural sciences, social sciences, arts, and professional areas, and the areas of logic, epistemology, and metaphysics.

CUNY Ph.D.
The City University of New York offers a master of arts degree program in philosophy and a doctoral program in philosophy. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Philosophy Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Philosophy Department and the executive officer of the doctoral program.

The following courses are offered as electives for students in other fields.

Courses

Students may apply graduate or undergraduate courses toward fulfillment of prerequisites.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

615X Values in the Modern World
45 hours; 3 credits
Philosophical examination of values in general and of different kinds of values (intellectual, aesthetic, religious, moral, social) as they are found in the modern world, with emphasis on contemporary American life. (Not open to students who have completed a course in theory of value.)
Prerequisite: a course in philosophy or permission of the chairperson.

702X Bioethics
45 hours; 3 credits
Critical examination of ethical issues that confront health care providers, patients, and research biologists. Moral foundations of decision making. Case studies and source readings. Classical and contemporary philosophers.

722.3X Philosophy of Music
45 hours; 3 credits
Critical examination of philosophical issues pertaining to music. Consideration of such issues as the definition or concept of music, the ontology of music, musical meaning and understanding, musical expressiveness and arousal, musical representation, musical performance, and authenticity of performance, the power and value of music, and the aesthetics of jazz, rock, and popular music. Classical and contemporary philosophers. This course is the same as Music U764.3X.
Prerequisite: one course in philosophy or one course in music or permission of the chairperson of Philosophy or Music.

753G Special Studies in Ethics, Aesthetics, or Philosophy of Law, History, the State or Religion
30 hours plus conference; 3 credits
Prerequisite: a course in philosophy.

754G Seminar in Ethics, Aesthetics, or Philosophy of Law, History, the State or Religion
30 hours plus conference; 3 credits
Prerequisite: a course in the subject of the seminar.
**Physical Education and Exercise Science**

Office: 107 Roosevelt Hall  
Telephone: 951-5514  

Chairperson: Charles J. Tobey  
Deputy Chairperson, Division of Graduate Studies: Michael Hipscher;  
Professors: Dunbar, Michielli, Tobey;  
Associate Professor: Leung, Schoenberg;  
Assistant Professors: Smith, Zeng;  
Lecturers: Hipscher.

**M.S. in physical education**  
**HEGIS code 0835; SED program code 83153**

The master of science degree in physical education program has two concentrations. The concentration in sports management is designed to teach students to manage health clubs, work as administrators of school and college athletics programs, manage corporate fitness programs, and work for professional teams and leagues. The concentration in psychosocial aspects of physical activity is no longer accepting applications.

1. Concentration in psychosocial aspects of physical activity

This concentration is inactive. Students are advised to consult the department for further information.

**Matriculation requirements**

Applicants must offer at least 12 credits in physical education courses including course work in all of the following areas: philosophical perspectives of physical education (philosophy or history), behavioral perspectives (motor learning, sport psychology, or sociology of sport), movement perspectives (kinesiology or biomechanics), and human physiology; and 9 credits in psychology and/or sociology courses, or obtain approval from the department chairperson.

Applicants must submit to the graduate deputy a statement of academic interests, experience, and other relevant information including academic honors, scholarships, and publications. Materials should be received by the department before March 1 for fall admission and before November 1 for spring admission. The department may require interviews of applicants for admission.

**Degree requirements**

Thirty credits are required for the degree. Students must complete a minimum of 21 credits in physical education including Physical Education 753X, 754X, 758X, and 792X; a minimum of 9 credits chosen from Physical Education 742X, 743X, 759X, 760X, 764X, 768X, 779X, 780X (if thesis is elected), and 799.2X. In addition, students must complete 9 credits in courses in psychology and sociology chosen with the approval of the Physical Education and Exercise Science Department. Students may not take all 9 credits in the same department.

Students must pass a comprehensive examination or submit a thesis acceptable to the department. Information about the comprehensive examination is in the section "Academic Regulations and Procedures."

The program of study must be approved by the deputy chairperson.

2. Concentration in sports management

**Matriculation requirements**

Applicants must offer at least 12 credits in physical education courses including course work in all of the following areas: philosophical perspectives of physical education (philosophy or history), behavioral perspectives (motor learning, sport psychology, or sociology of sport), movement perspectives (kinesiology or biomechanics), and human physiology.

**Degree requirements**

Thirty credits are required for the degree. Students must complete 18 credits in physical education: Physical Education 742X, 743X, 744X, 745X, 792X, and either Physical Education 780X (if thesis is chosen) or an elective in the department. Nine credits in courses in economics: Economics 609X, 701X, and one course chosen from 608X (formerly 709X) or 705X. Three credits in an elective course either in or out of the department as approved by the graduate deputy.

Students must pass a comprehensive examination or submit a thesis acceptable to the department. Information about the comprehensive examination is in the section "Academic Regulations and Procedures."

The program of study must be approved by the deputy chairperson.

**M.S. in Ed., physical education teacher (all grades)**  
**HEGIS code 0835; SED program code 26745**

This master of science degree program is designed to train students to be effective teachers and coaches in all grades (kindergarten through grade 12). Course work in the School of Education is required. The New York State Education Department licenses graduates of registered teacher education programs who meet the state requirements for teachers. All students should consult with the School of Education for the current requirements.

The profession of teacher education is licensed by the New York State Education Department. Therefore, program requirements are subject to change. All students should consult with the School of Education for the current requirements.

**Matriculation requirements**

Applicants must offer 18 credits in courses in physical education as follows:

a) Course work in each of the following areas for a total of at least 12 credits: philosophical perspectives of physical
education (philosophy or history), behavioral perspectives (motor learning, sport psychology, or sociology of sport), movement perspectives (kinesiology or biomechanics), and human physiology;

b) Course work in the theory and practice of teaching and coaching activities for a total of at least 6 credits.

Applicants must also offer (a) or (b) or (c):

(a) New York State Initial Certification in teaching physical education for all grades;

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching physical education in all grades; 100 hours of fieldwork; 40 days or 300 hours of student teaching of physical education in all grades, or one year of full-time teaching of physical education in all grades, and submission of scores on the Liberal Arts and Science Test (L.A.S.T.);

(c) an undergraduate degree with a major in physical education or appropriate course work in physical education, and submission of scores on the L.A.S.T.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Department of Physical Education and Exercise Science.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**

A minimum of 30 credits is required for the degree.

Students must complete 18 credits in courses in the Physical Education and Exercise Science Department. Students must take Physical Education 792X; an additional 9 credits chosen from Physical Education 744X, 750X, 751X, 752X, 753X, 754X, 755X, 756X, 757X, 758X, 759X, 764X, and an additional 6 elective credits in the department, but excluding Physical Education 745X and 765X.

Students must complete 12 credits in courses in the School of Education. Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching physical education must complete 9 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching physical education or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching physical education must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below. Students pursuing Initial Certification in teaching physical education must take ED 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master's degree but wish Initial Certification in teaching physical education must take appropriate courses in Group I and Group III as below, as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

**Group I**

Education 742X, 792.1X, 763.13T, 764.5T, 723.13T, 764.51T.

**Group II**

Education 742.2T, 722.13T, 724.13T.

**Group III**

Education 716X, 721.13T, 726.1X, 731.3T, 751.2T, 751.5T, 784.2X, 792.2X, Education 792.4X/English 779X, Education 796X/Theater 741, Education 799.5X.

Students must pass a comprehensive examination or submit a thesis acceptable to the Department of Physical Education and Exercise Science. Information about the requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.”

Courses in the Physical Education and Exercise Science Department and the School of Education offered toward the degree must be 700-level courses.

The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Physical Education and Exercise Science Department and the head of adolescence education and special subjects in the School of Education.

**M.S. in exercise science and rehabilitation**

**HEGIS code 1299.30; SED program code 89178**

This master of science degree program is designed to teach students about human movement and rehabilitation, with
emphasis on cardiopulmonary rehabilitation. It is designed for students who want to do research and scholarship in exercise science.

**Matriculation requirements**
Applicants must offer at least one undergraduate course in each of the following: human physiology, human anatomy, physiology of exercise, kinesiology. A course in physics and a course in chemistry are recommended. Students must also demonstrate proficiency in basic techniques of weightlifting and body conditioning. This may be done by completion of a course in the subject, appropriate certification by a nationally recognized organization (e.g., NSCA), or proof of at least one year of practical experience in the field.

Applicants for matriculation who meet the general matriculation requirements of the college may be accepted for matriculation conditionally. A graduate student may meet such matriculation conditions by completing appropriate courses in the Brooklyn College undergraduate division.

**Degree requirements**
Thirty-six credits are required for the degree.

Students must complete all of the following: Physical Education 743X, 759X, 760X, 762X, 763X, 765X, 767X, 779X, 780X or 799.2X, and 792X, and any two of the following: Physical Education 742X, 744X, 754X, 764X or 768X, 758X, and 761X. Students who have successfully completed an undergraduate course in Exercise Testing and Prescription may take an additional elective in place of 743X.

Students must submit a thesis acceptable to the department or pass a comprehensive examination. Information about the requirements for the comprehensive examination and thesis is in the section "Academic Regulations and Procedures."

**Courses**

To register for courses numbered 700 and higher, students who offer fewer than 12 undergraduate credits in physical education must have permission of the deputy chairperson before registration.

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

**Sports Management**

**742X Principles of Sports Management**
30 hours plus conference; 3 credits

Business administration practices as they relate to sports and athletics. Overview of the field of sports management.

Suggested directions for the future. Emphasis on the practical and contemporary aspects of the field. (This course must be taken before the completion of 12 credits in the program.) (Not open to students who are enrolled in or have completed Physical Education 766X.)

**743X Applications of Exercise and Fitness Theory**
30 hours plus conference; 3 credits

Examination of exercise theory, psychological aspects of physical activity, and current fitness trends. Application of theory to the development and implementation of fitness programs in industrial, commercial, and educational settings.

**744X Sport and the Law**
30 hours plus conference; 3 credits

Legal concepts and their application to sports. Consideration of constitutional requirements, tort, contract and commercial laws as they relate to the sports professional and participant. Special topics highlighting such developing laws as product liability, worker’s compensation, and Titles VII and IX are included. (Not open to students who are enrolled in or have completed Physical Education 766X.)

**745X Sports Management Internship**
15 hours seminar, 90 hours fieldwork; 3 credits

Supervised sports management internship experience. Development of competencies in sports management in an approved agency and under the direction and supervision of agency personnel and a member of the college faculty.

Prerequisite: Physical Education 742X.

**Physical education and psychosocial aspects of physical activity**

**749X Advanced Instructional Strategies for Physical Education**
45 hours; 3 credits

Development of advanced skills in physical education pedagogy. Strategic class management and motivation skills based on current pedagogical research.

Prerequisite: an introductory theory course in instructional strategies in physical education (K-12) or permission of the chairperson.

**750X Physical Education and Athletics in Education and Society**
30 hours plus conference; 3 credits

Historical and philosophical study of physical education and athletics in education and society.

**753X Sociology of Sport**
30 hours plus conference; 3 credits

**754X Sport Psychology**  
30 hours plus conference; 3 credits  
Factors influencing the relationship of sport to personality. Selected personality theories; the coach-player relationship; minority groups in sport; aggression; personality characteristics of athletes competing in various sports. Independent projects. Current literature.

**755X Administration of Athletics**  
30 hours plus conference; 3 credits  
Coordination of procedures for success in athletics. Programs, budgets, legal aspects, coaching, training, medical supervision, rehabilitation.

**756T Supervision in Physical Education**  
30 hours plus conference; 3 credits  
Techniques of supervision in junior and senior high school. Attention to in-service training of personnel; relations with principals, administrators, the community. Prerequisite: a graduate course in physical education and a minimum of a year of teaching experience.

**757X Physical Education Curriculum in Secondary School**  
30 hours plus conference; 3 credits  
Fundamental principles for curriculum development. Sources and criteria for content selection and organization in required classes, atypical classes, intramural sports, interscholastic athletics for urban and suburban schools.

**758X Motor Learning and Human Performance**  
30 hours plus conference; 3 credits  
Behavioristic and cognitive theories related to the acquisition of gross motor skills. Application of research findings to the teaching of motor skills.

**759X Advanced Physiology of Exercise**  
15 hours lecture, 30 hours laboratory; 3 credits  
Effects of exercise on humans. Selected topics in circulation, respiration, muscle physiology, thermoregulation, energy metabolism. (See course description under heading "Physical education and psychosocial aspects of physical activity")

**760X Exercise Prescription for Special Populations**  
45 hours; 3 credits  
Theory of individualized exercise programs for specific populations: cardiovascular, neuromuscularly impaired, diabetic, pediatric, geriatric, dialysis patients.

**761X Advances in Cardiology**  
45 hours; 3 credits  
Invasive and noninvasive tests which assess cardiovascular function. Topics include cardiac catheterization, radionuclide studies, wall motion studies, echocardiography.

**762X Electrocardiography**  
45 hours; 3 credits  
Fundamentals of the physiological basis of the electrical activity of the heart. Cardiac rate, rhythm, hypertrophy, axis, infarct, electrolyte abnormalities, and conduction. Evaluation of exercise electrocardiograms of healthy and of diseased hearts.

**763X Biomechanics**  
45 hours; 3 credits  
The study of human motion and its underlying physical principles. Examination of forces that act on the human body and their effects on muscles, bones, and joints. Applications to physical therapy, rehabilitative medicine, and sports techniques. (Not open to students who are enrolled in or have completed Physics 690X.) Prerequisite: a course in kinesiology.

**764X Prevention, Recognition, and Care of Injuries in Active Populations**  
45 hours; 3 credits  
Theories and principles of therapeutic modalities as they relate to the injured athlete. Prerequisite: Physical Education 763X or Physics 690X.

**765X Internship in Exercise Science and Sports Medicine**  
15 hours seminar, 90 hours fieldwork; 3 credits  
Development of skills in exercise science and sports medicine in an approved setting (hospital, rehabilitation program) under the direction and supervision of agency personnel and a member of the college faculty. Prerequisite: Physical Education 762X and 767X.
767X Cardiopulmonary Rehabilitation  
45 hours; 3 credits  
Physiological, medical, administrative, and practical guidelines for conducting a comprehensive rehabilitation program for individuals with various cardiopulmonary diseases.  
Prerequisite: Physical Education 762X.

779X Nutrition and Exercise  
30 hours plus conference; 3 credits  
Exploration of human nutritional requirements of exercise; the significance of intermediary metabolic pathways and the effect of dietary manipulation on exercise performance. (This course is the same as Health and Nutrition Sciences 779X.)  
Prerequisite: a college level course in human or animal physiology.

Research courses

780X Thesis Research  
Hours to be arranged; 3 credits  
Research for master's thesis supervised by a faculty member. Credit is not earned until the thesis is accepted. Students register for this course only once.  
Prerequisite: permission of the chairperson.

792X Research Seminar: Physical Education and Athletics  
30 hours plus conference; 3 credits  
Critical analysis of selected problems and research methods in physical education, safety, psychosocial aspects of physical activity, sports management, and exercise science and rehabilitation. Utilization of original sources. Written report on investigation of a problem.

799.2X Special Problems: Physical Education and Athletics  
45 hours; 3 credits  
Tutorial study with a faculty member in a subject in which formal course work is not offered. Independent reading, reports, and/or fieldwork. Discussion and examinations by arrangement with the instructor.

The following courses are inactive and will be offered only if there is sufficient demand:

751X Kinesiotherapy for the Handicapped and Disabled  
752X Facilities and Equipment in Physical Education and Recreation

Physics

Office: 3438 Ingersoll Hall  
Telephone: 951-5418  
Chairperson: Raymond T. Tung  
Deputy Chairperson, Division of Graduate Studies: Ming-Kung Liou  
Professors: Bond, Franco, Lesser, Liou, Sahni, Schwartz, Sobel, Tomkiewicz, Tung;  
Associate Professors: Kai, Miyano;  
Assistant Professors: Giovambattista, Lui, Narkami, Suarez.

M.A. in physics

HEGIS code 1902; SED program code 02068
The study of physics provides a foundation in fundamental science and develops skill sets that are highly valued in virtually every profession. The M.A. in physics program prepares students for admission to doctoral programs in physics or closely related fields such as astronomy, biophysics, medical physics, materials science, and engineering. For students who do not intend to pursue a doctorate in physics, the program provides a strong background in problem-solving through the application of physics, mathematics, and quantitative reasoning that can be extremely useful in a variety of professions, including business, finance, law, and medicine, as well as applied physics. For all students, the program also affords an opportunity to gain research experience.

Standard physics sequence
This sequence is the traditional course of study intended for students who are likely to continue on to the Ph.D. degree in physics.

Matriculation requirements
Applicants must offer at least 12 credits in physics beyond general physics and at least 9 credits in mathematics beyond elementary integral calculus.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits are required for the degree.

Students must complete 22 credits in courses in the Physics Department. The following courses are required: Physics U701X, U711X, U715X, U725X, and U771X. In exceptional cases, the graduate physics committee may waive required courses or prerequisites.

With permission of the committee, the remaining credits required for the degree may be in courses in any department.

If they have been completed with a grade of B or higher and have not been counted toward the undergraduate degree, physics courses numbered 60 through 69 in the Brooklyn College Undergraduate Bulletin corresponding to U600 courses in the City University Graduate Bulletin, or their equivalent, may be offered toward the master's degree.
Students must pass a comprehensive examination or submit a thesis, the choice to be made in consultation with the deputy chairperson. The first doctoral examination of the CUNY PhD, program may be substituted for the comprehensive examination. Students who choose to write a thesis must take a course or courses in the series Physics 700.1G, 700.2G. No more than 4 credits in this series may be offered toward the degree. Information about requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.”

Graduate courses in the Physics Department offered toward the degree must be 700-level courses.

The program of study must be approved by the graduate physics committee.

**M.A., physics teacher (7–12)**
**HEGIS code 1902.01; SED program code 26762**

The M.A., physics teacher program prepares students for a career in teaching at the high school level. It includes courses in education, as well as physics, which are designed to help graduate students become more effective high school physics teachers. The courses required by the School of Education vary depending on the entry qualifications of students. All students should consult with the School of Education for the current requirements.

### Matriculation requirements

Applicants must offer at least 12 credits in physics beyond general physics.

Applicants must also offer (a) or (b) or (c):

(a) New York State Initial Certification in physics for grades 7-12;

(b) courses in education that meet the New York State standards for the pedagogical core. These courses include study of the following: history of education and philosophy of education or principles of education or educational sociology; educational psychology or developmental psychology or psychology of adolescence or adolescent development; classroom management; teaching students with special needs and English language learners; 6 credits in literacy and language acquisition; curriculum development and methods of assessing student learning; uses of technology in the classroom; methods of teaching physics in grades 7–12; 100 hours of fieldwork; 40 days or 300 hours of student teaching of physics in grades 7–12, or one year of full-time teaching of physics in grades 7–12; and submission of scores on the Liberal Arts and Science Test (L.A.ST.);

(c) an undergraduate degree with a major in physics or appropriate course work in physics, and submission of scores on the L.A.ST.

Applicants must have a minimum undergraduate grade point average of 3.00. A minimum average of 3.00 in graduate courses is required to maintain matriculation.

International applicants for whom English is a second language are required to pass the Test of English as a Foreign Language (TOEFL) with a score of 550 before being considered for admission.

Applicants who have not completed all the specific course requirements are given individual consideration and may be admitted with conditions, with the approval of the head of adolescence education and special subjects in the School of Education and the chairperson of the Physics Department.

Applicants must consult matriculation requirements for adolescence education and special subjects in the School of Education section of the Bulletin, and should see the head of adolescence education and special subjects for counseling.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

### Degree requirements

A minimum of 30 credits is required for the degree.

Students must complete 12 credits in courses in the Physics Department including 6 credits in courses on the 700 level.

Students must complete 12 credits in courses in the School of Education as described below. The remaining credits required for the degree may be in courses taken in any department.

Students take different education courses and sequences of courses depending on their previous course work, teaching experience, and the certificates they hold. Students who possess Initial Certification in teaching physics must complete 6 credits in Group II and 3 credits in Group III, below. Students who do not possess Initial Certification in teaching physics or equivalent course work and teaching experience or who are teaching but do not possess Initial Certification in teaching physics must have the appropriate course work and credits in the subject area and must complete the appropriate courses in Group I before taking courses in Groups II and III, below.

Students pursuing Initial Certification in teaching physics must take Education 792.2X, Teaching Writing Across the Curriculum, in Group III.

Students who already have a master's degree but wish Initial Certification in teaching physics must take appropriate courses in Group I and Group III, below as determined at the time of matriculation by the head of adolescence education and special subjects in the School of Education.

**Group I**
Education 742X, 792.1X, 763.04T, 764.5T, 723.04T, 764.51T.

**Group II**
Education 742.2T, 722.04T, 724.04T.

**Group III**
Education 716X, 721.04T, 726.1X, 731.3T, 751.2T, 784.2X, 792.2X, Education 792.4X/English 779X, Education 796X/Theater 741, Education 799.5X.

Students must pass a comprehensive examination or submit a thesis acceptable to the Department of Physics, the choice to be made in consultation with the deputy chairperson of the
Physics Department. Information about requirements for the comprehensive examination and the thesis is in the section “Academic Regulations and Procedures.”

The program of study must be approved early in the first semester by the chairperson or deputy chairperson of the Physics Department and the head of the adolescence education and special subjects in the School of Education.

CUNY Ph.D.
The City University of New York offers a doctoral program in physics. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.”

The Physics Department at Brooklyn College is a full participant in the Ph.D. program. It offers a complete Physics sequence of courses that are creditable toward the CUNY doctoral degree, and a wide range of research opportunities in fulfillment of the doctoral dissertation requirements for that degree. For information about the courses, students should consult the graduate deputy chairperson of the Physics Department and the executive officer of the Ph.D. program in physics.

Honor Society
Sigma XI, the Scientific Research Society, encourages original investigation in the natural sciences, pure and applied. The fields of activity of the society include the physical sciences, the life sciences, the earth sciences, and mathematics. The Brooklyn College Chapter elects students to associate membership in the society on the basis of academic excellence and marked aptitude for research in one of the fields listed above.

Courses
Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite. The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

700.1G, 700.2G Thesis Research
30 hours each term; 2 credits each term
Research for master's thesis supervised by a faculty member. No more than 4 credits may be counted toward the degree. Credit is not earned until the thesis is accepted.

U701X Mathematical Methods in Physics I
45 hours plus conference; 4 credits

U702X Mathematical Methods in Physics II
45 hours plus conference; 4 credits
Continuation of Physics U701X. Prerequisite: Physics U701X.

U711X Analytical Dynamics
45 hours plus conference; 4 credits
Linear vector spaces. Small oscillations. Rigid bodies, including Euler's angles. Hamiltonian theory, including Hamilton's principle, Hamilton's equations, contact transformations. The Hamilton-Jacobi method; infinitesimal contact transformations; further development of transformation theory; special applications. Continuous media and fields. Introduction to special relativity theory.

U715X Electromagnetic Theory I
45 hours plus conference; 4 credits

U716X Electromagnetic Theory II
45 hours plus conference; 4 credits
Continuation of Physics U715X. Prerequisite: Physics U715X.

U725X Quantum Mechanics I
45 hours plus conference; 4 credits

U726X Quantum Mechanics II
45 hours plus conference; 4 credits
Continuation of Physics U725X. Prerequisite: Physics U725X.

U730X Atomic Physics
45 hours plus conference; 4 credits
Spin systems, angular momentum, spectra. Atomic beam resonance, nuclear magnetic resonance (NMR), electron paramagnetic resonance (EPR), optical pumping, scattering, lasers. Prerequisite: Physics U716X and U725X.
**U735X Nuclear Physics**
45 hours plus conference; 4 credits
Prerequisite: Physics U725X.

**U736X Particle Physics**
45 hours plus conference; 4 credits
Prerequisite: Physics U735X.

**U745X Solid-state Physics**
45 hours plus conference; 4 credits
Principles of crystallography: crystal structure, lattice vibrations, band theory, defects. Ionic crystals; dielectrics; magnetism; free electron theory of metals and semiconductors.
Prerequisite: Physics U725X.

**U757X Astrophysics**
45 hours plus conference; 4 credits
Prerequisite: an introductory course in modern physics.

**U771X Graduate Physics Laboratory**
45 hours; 2 credits
Advanced experimental work in one or more fields of physics. Planning experiments. Design and construction of apparatus. Evaluation of experimental results in the fields of optics and X-rays, electronics, atomic and nuclear physics. Students may take this course twice but may not repeat topics. (Not open to students who have completed the same topic in Physics U772X.)

**780.1X, 780.2X Advanced Study**
30 hours each term; 2 credits each term
Tutorial study with a faculty member in an area in which formal course work is not offered.
Prerequisite: permission of the deputy chairperson.

**781.1X, 781.2X Introductory Laboratory Research**
30 hours each term; 2 credits each term
Intended for students who want to explore the feasibility of different research problems before choosing a thesis topic.
Prerequisite: permission of the deputy chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

- **601T, 602T, 603T** Physics for Junior High School Teachers I, II, III
- **605T** Concepts and Theories of Modern Physics
- **620T** Modern Topics in Physical Science
- **690X** Biomechanics
- **713X** Electronics
- **714X** Advanced Optics
**Political Science**

Office: 3413 James Hall  
Telephone: 951-5306, 951-5307  

Chairperson: Sally Bermanzohn  
Deputy Chairperson, Graduate Program in Political Science: Mark Ungar  
Deputy Chairperson, Worker Education Program: Joseph W. Ilson  
Professors: Bermanzohn, W. Ilson;  
Associate Professors: Currah, Johnson, London, Ness, O. Kome, Robin, Ungar;  
Distinguished Lecturer: González.

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**M.A. in Political Science**  
**HEGIS code 2207; SED program code 02108**

The political science master's program offers students a choice of three concentrations: political science, international affairs, or urban policy and administration.

The political science concentration combines the theories and policy applications of political science through a specialization in one of four fields: American politics, comparative politics, political theory, or international relations. Students choose from a wide range of offered courses supplemented by independent study, master's thesis, and other individual study opportunities.

The international affairs concentration is designed to prepare students for professional and academic careers in international affairs through programs of study tailored to their particular interests and goals. Courses range from thematic overviews to seminars on specific world regions, and are combined with independent study classes and the master's thesis courses in close collaboration with faculty members. To foster professional preparation, the program also publishes student work in the department's Political Science Journal and places students in internships as well as study and work opportunities abroad.

The urban policy and administration concentration, given at the Brooklyn College Graduate Center for Worker Education Campus at 25 Broadway in lower Manhattan, provides theoretical and practical understanding of the criminal justice system, labor organizations, racial and ethnic politics, public policy processes, and New York City government. All courses in this concentration are taught by an experienced faculty with connections to government agencies, community-based organizations, and labor institutions. Students develop skills in policy analysis, organizational theory, and the application of statistical concepts applied to administrative and management abilities. A wide range of internships are available. Students complete the program with a master's seminar. Graduates find professional opportunities in city, state, and federal government agencies; international agencies; not-for-profit and community-based organizations; unions; foundations; hospitals; and in the private sector. A number of career to political science. Students have continued their studies in doctoral programs and law schools. The program publishes the Political Science Journal, a leading professional peer-reviewed academic journal found in hundreds of universities and libraries.

**Matriculation Requirements**

Applicants must have an undergraduate GPA of at least 3.00 with a minimum of 24 credits in political science, history, economics, sociology, or related fields. General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

**Degree Requirements**

Students choose one of the following three concentrations described below: Political Science, International Affairs, or Urban Policy and Administration.

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**1. Political Science**

The requirements for the concentration in political science are:

1. **Credits:** Thirty credits, all from 700-level courses. With the permission of the deputy chairperson, a maximum of 9 credits may be from courses from other departments, and a maximum of credits from graduate courses completed in other universities.

2. **Distribution:** Courses are grouped into four areas of study: American government, comparative politics, international relations, and political theory. The statistics course does not count for the political theory requirement. A minimum of 9 credits must be from one of these areas, which will be the student's specialization, and a minimum of 3 credits from each of the other three areas.

3. **Statistics or Language:** Students must either take an approved course in statistics, in political science or another graduate program, or pass a language examination in a major international language approved by the deputy chairperson other than the student's native language. Three credits are given for a statistics course; no credits are given for the language examination.

4. **Comprehensive Examination or Thesis:** After completing a minimum of 21 credits, students must either take a comprehensive examination or write a thesis. The examination consists of two essay questions: one in the student's area of specialization and one in any other area. Students have a choice of questions in each area but must pass both to pass the examination. No credits are given for the comprehensive examination. The thesis, taken as course 791X for 3 credits, consists of a eighty-page original research project based on a proposal approved by a faculty member who will advise the thesis. Students with a GPA under 3.50 are not encouraged to write a thesis.

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**II. International Affairs**

The requirements for the concentration in international affairs are:

1. **Courses:** Ten 700-level courses (30 credits) with the following distribution:

   (1) **Modern International Politics (POL 761X) and two other international affairs courses (760X - 769.1X).**

   (2) **Comparative Politics (POL 772X) and one other Comparative Politics course (770X - 789.1X);**

   (3) **Comparative Politics (POL 773X) and one other Comparative Politics course (770X - 789.1X);**
(3) Statistics (POL 700X or equivalent from other departments) or Methodology (POL 716X);
(4) Fieldwork/Internship (POL 745G);
(5) Political Theory (701X–719X, excluding 717X) or 794X (Independent Study);
(6) Thesis (POL 791G), based on individual projects and bi-weekly seminars.

With department approval, up to 12 credits (four courses) may be from other departments or graduate programs.

2. Exams: Students take a pass/fail comprehensive exam and a foreign language exam.

III. Urban policy and administration: Thirty-three credits are required for the concentration in urban policy and administration. The following courses are required: Political Science 700X, 717X, 740X, 751X, and 757X. The remaining 21 credits required for the degree may be chosen from courses in the Political Science Department. Political science courses at the 25 Broadway Worker Education Campus in Manhattan will be enhanced and augmented from a labor relations perspective and academic focus. Each student's program of study must be approved by the deputy chairperson for the Worker Education Center.

CUNY Ph.D.
The City University of New York offers a doctoral program in political science. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.”

Political Science Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Political Science Department and the executive officer of the doctoral program.

Courses
Registration for courses numbered 700 and higher requires matriculation in the Political Science M.A. program, a nonmatriculated or provisional status in the Political Science Program, or permission of the chairperson or deputy chairperson.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

**Political Theory**

700X Statistics in Political Science
30 hours plus conference; 3 credits

Overview of statistical analysis in political science. Application of probability theory, inferential statistics, and use of statistical techniques in such areas as public opinion, voting and legislative behavior, and comparative politics. Regression analysis and quantitative applications of social science census data on issues such as class, labor, and race.

701X Ancient and Medieval Political Thought
30 hours plus conference; 3 credits
Analytical and historical examination of principal political thinkers from Plato through Machiavelli. Topics to be considered include: the role of virtue and political participation; classical theories of democracy, aristocracy, and monarchy; the Christian critique of ancient politics; the breakdown of the Christian worldview; the rise of modernity. Theorists may include Plato, Aristotle, Augustine, Aquinas, Al-Farabi, Maimonides, and Machiavelli.

702X Modern Political Thought
30 hours plus conference; 3 credits
Analytical and historical examination of principal political thinkers from the sixteenth century through the nineteenth century. Topics to be considered include: the rise of liberalism and radical democratic theory; the conservative critique of revolutionary politics; the idea of rights and toleration; the rise of capitalism and Marxist criticism; the impact of Nietzsche. Theorists may include Hobbes, Locke, Rousseau, Wollstonecraft, Smith, Tocqueville, Marx, and Nietzsche.

703X American Political Thought
30 hours plus conference; 3 credits
An introduction to the development and evolution of American political ideas and what they mean for America. Topics to be covered include: revolution and constitutionalism; capitalism, liberty and equality; social Darwinism and industrial capitalism; social democracy and neoconservatism; feminism, racism, and multiculturalism.

704X Counter-Revolution
30 hours plus conference; 3 credits
Studies the origins and nature of counterrevolutionary thinking and politics. Focuses on counterrevolutionary hostility to progressive politics—whether liberal, democratic, or revolutionary. Examines the role of counterrevolutionary arguments in contemporary American politics.

705X Fear in Politics
30 hours plus conference; 3 credits
Examines the role of fear in politics. Readings from political theory (e.g., Hobbes, Montesquieu, Tocqueville, Arendt, Foucault), literature (e.g., Brecht, Solzhenitsyn, Kafka), and history. Focus on relationship between fear and the state, civil society, the workplace, and other private spheres. Case studies from the United States, Latin America, Soviet Union, and Nazi Germany.

710X Twentieth-Century Political Thought
30 hours plus conference; 3 credits
Examination of leading schools of political thought in the twentieth century, including Marxism, liberalism, democratic
theory, feminism, and poststructuralism. Particular focus on the nature of the state; the status and definition of rights; the tension between participation and individualism; the nature of class power and gender relations; the problems of imperialism and postcolonialism.

714X Theory of Anti-Capitalist Movements
30 hours plus conference; 3 credits
Various theories of socialism and communism. Marx and the Marxists. Non-Marxist socialist thought. The course will examine the relationship between changing theoretical doctrines and political movements. Possible topics to be discussed include: the genesis of worker consciousness; the role of internal democracy in mass movements; the state of anticapitalist thinking and movements today.

715X Organization Theory
30 hours plus conference; 3 credits
Theories of organization. Problems regarding public organizations. Concepts of authority, hierarchy, status, leadership.

716X Methodology: Empirical Political Science
30 hours plus conference; 3 credits
Uses of quantitative methods in political research. Methodological issues such as factor analysis, interview design, survey research, content analysis, probability theory, simulation, and game theory. Implications for theory building in political science.

717X Master's Seminar
30 hours plus conference; 3 credits
A guided research experience designed to allow students to conceptualize, organize, and complete a major policy paper. Class sessions will focus on problem identification and issues involving policy analysis. Students will be required to identify a policy problem, choose an applicable model for evaluating the problem, and complete a thirty- to forty-page policy paper containing a series of policy recommendations. Labor topics and labor-oriented policy analysis will be encouraged. Students will submit various pieces of the project according to a prearranged schedule. The class will be organized as a workshop to provide systematic feedback and direction of the various papers.

Prerequisite or corequisite: completion of 24 credits with a B average.

718X Ethics and Politics
30 hours plus conference; 3 credits
Ethical issues as they arise within the context of government and politics with the aim of improving students’ ability to think ethically about the means and ends of public policy and the behavior of public officials. Such topics as the following will be addressed: the use of deception in public life; the use of citizens as a means to governmental policy and the moral accountability of individual public officials; whistle-blowing; and the ethical components in assessing such objectives of government as distributive justice, equal opportunity, and nuclear deterrence.

719.1X Selected Topics in Political Theory
30 hours plus conference; 3 credits
Topic varies from term to term. Students may take this course four times, but may not repeat topics. (Not open to students who have completed the same topic in Political Science 719.2X, 719.3X, or 719.4X.)

American Government

720X U.S. Constitutional Law I
30 hours plus conference; 3 credits
Relation of the judicial process and constitutional law to the political process in the United States. Judicial review; federalism. Separation and delegation of powers.

721X U.S. Constitutional Law II
30 hours plus conference; 3 credits
Civil liberties; civil rights; due process; equal protection of the laws.

722X Criminal Justice and Public Policy
30 hours plus conference; 3 credits
An analysis will be made of criminal justice decision making and crime policy by exploring contemporary empirical research. Institutions covered will include the police department, bar associations, the courts, and correction agencies. Crime control strategies to be analyzed include: deterrence, incapacitation, rehabilitation, decriminalization, diversion, and fortressing. Specific examples of actual or proposed policies to be studied are reduction of plea bargaining, mandatory imprisonment, elimination of parole, saturation policing, and capital punishment.

724G Computer Applications in Political Science
30 hours plus conference; 3 credits
Current use and potential applications of computers in political science. Emphasis on urban problems.

730X U.S. Party System
30 hours plus conference; 3 credits
The nature and function of U.S. political parties and interest groups and their growth and decline; the electoral process, organization and leadership, decision making; labor in the two-party system; labor and working-class electoral tendencies; labor and independent politics.

731X Policy Formulation in U.S. Government
30 hours plus conference; 3 credits
The changing nature of federalism and of the separation of powers as related to major problems facing the United States.
732X The Presidency in the United States
30 hours plus conference; 3 credits
The presidency as an office of national and international leadership.

733X The Legislative Process in the United States
30 hours plus conference; 3 credits

734X Policy Analysis
30 hours plus conference; 3 credits
Current problems, prospects, and projections of policy analysis in education, health, poverty, welfare, planning, urban renewal, police and law enforcement, and metropolitanization.

735X Politics and Public Opinion Formation
30 hours plus conference; 3 credits
The role of public opinion in different political systems. Formation of opinion. Political socialization; interest and pressure groups. Leaders and political behavior. Mass communications media.

736X The Politics of the American Labor Movement
30 hours plus conference; 3 credits
The influence that trade unions have in the political process (elections, parties, the legislature, and the courts) and the importance of state intervention to union organization and political power. Leading theories on union goals and relationship to the political system will be analyzed. Also covered will be specific policy objectives pursued by unions: e.g., health, safety, and welfare policies; employment security and labor relations policies; affirmative action and economic restructuring policies.

737X Policy Evaluation
30 hours plus conference; 3 credits
The nature, purposes, and methodology of policy evaluation. The relationship between policy evaluation and policy analysis. Description and differentiation of summative, goal-free, utilization-focused, formative, and cost-effectiveness evaluation. Analysis of various kinds of experimental, quasi-experimental, reflexive, process, and cost-effectiveness research designs for policy evaluation. Diagnosis of validity problems associated with each design.

740X Public Administration
30 hours plus conference; 3 credits

745G Fieldwork/Internship
3 credits
Students spend eight to 10 hours a week in a government or non-governmental agency and attend weekly seminars dealing with issues raised in their fieldwork assignments. The seminar is supervised jointly by an agency staff member and Brooklyn College faculty. Students write a paper on their work.

747X Metropolitan Areas and Community Power Analysis
30 hours plus conference; 3 credits
The urban power structure and the metropolitan complex. Regional planning for land use and transportation. Adjustment of government services to the metropolitan, social, and economic community. Political, fiscal, administrative, legal, constitutional problems. Changes in intergovernment relations. Labor and trade union power; labor-community coalitions, metro-unionism.

748X Planning for Metropolitan Areas
30 hours plus conference; 3 credits
The planning process in metropolitan governments. Administrative policies and machinery for dealing with regional problems. Planning problems of the New York metropolitan area.

749.1X, 749.2X Selected Topics in American Government
30 hours plus conference; 3 credits
Topics vary from term to term. Students may take any combination of these courses for a total of 12 credits, but may not repeat topics. (Not open to students who have completed the same topic in Political Science 749.3X or 749.4X.)

751X Government of New York City/Urban Politics
30 hours plus conference; 3 credits
The politics, government, administration of New York City in the context of the changing field of urban politics. Political economy; population changes; geographic differences; impact of the states and the federal government.

755X Health Care Politics
30 hours plus conference; 3 credits
The scope and politics of government intervention in health care; topics include: national health insurance, federalism and the U.S. health-care system, the politics of professionalism, cost containment, privatization, health promotion, and reforming the health-care system. Debates over health policy will be traced historically and related to major policy models. Various approaches to the study of politics will be employed and illustrated with case studies from the health-care field.
**757X Racial and Ethnic Politics in the United States**
30 hours plus conference; 3 credits
Framework for analyzing racial and ethnic politics in the United States, including historical, economic, social, as well as political factors. Topics include the civil rights movement, immigration policy, urban poverty, and contemporary debates involving racial and ethnic issues.

**760X U.S. Foreign Policy**
30 hours plus conference; 3 credits
Historical development of United States foreign policy. Policies toward each world region. Ideological and political debates over specific policies and the use of power. Domestic factors affecting the determination and conduct of U.S. foreign policy.

**761X Modern International Politics**
30 hours plus conference; 3 credits
Analysis of the basic factors shaping contemporary international politics; theories and approaches to the study of international politics; patterns of relations among states and non-state actors; sources and uses of power in the global arena.

**762X International Organization**
30 hours plus conference; 3 credits
Major global and regional international organizations. The United Nations system.

**763X International Law**
30 hours plus conference; 3 credits
The nature, sources, development of international law. Role and function of law in international society.

**765X Human Rights and World Politics**
30 hours; 3 credits
Study of human rights problems and the international community's approaches to them. Examination of the history of human rights, the functioning of human rights organizations, the relationship between human rights and political systems, and patterns of rights violations against different ethnic, racial, religious, gender, and other groups.

**766X Globalization and International Cooperation**
30 hours plus conference; 3 credits
Contemporary developments in economic and political globalization and in cooperation among states. Analysis of international political economy and policy. North-South relations, and trade. Examination of cooperation on human rights, war, environment, minorities, culture, migration, refugees, genocide, health, and gender.

**767X North-South Relationships in World Politics**
30 hours plus conference; 3 credits
Political and economic relationships between the wealthy countries of the global north and the poorer countries of the global south. Study of trade, debt, war, history, rights, nationalism, identity, labor, environment, immigration, and the world's approaches to these problems.

**769.1X Selected Topics in International Relations**
30 hours plus conference; 3 credits
Topic varies from term to term. Students may take this course four times, but may not repeat topics. (Not open to students who have completed the same topic in Political Science 769.2X, 769.3X, or 769.4X.)

**Comparative politics**

**771.2X-771.6X Political Systems in Developing Areas: Regional Analysis**
30 hours plus conference each term; 3 credits each term
Political modernization of developing areas. Process of transition from traditionism to modernism. Developing political institutions and changing political processes in specific regions.

771.2X The Far East
771.3X The Middle East
771.6X Latin America

**772X Comparative Politics**
30 hours plus conference; 3 credits
Introduction to the nature and methodology of comparative political research. Comparative study of governments from each world region. Cross-national analysis of major dimensions of the political processes, political structures, and state activities in Asia, Africa, the Americas, and Europe. Examination of the major themes of comparative politics such as democratization, nation building, ethnic conflicts, and social movements.

**773X Postcommunist Politics**
30 hours plus conference; 3 credits
Examination of the history and politics of the postcommunist societies of Eastern Europe and Central Eurasia. Analysis of the major puzzles of the region: democratization, the state and revolution, class and poverty, nation-building and disintegration, gender, and globalization.

**774X The Military and Police in Politics**
30 hours plus conference; 3 credits
The roles, influences, and power of military, police, and other security forces in the politics of countries around the world. Patterns in national and international policies on crime, terrorism, and military issues.
776X Comparative Public Administration
30 hours plus conference; 3 credits
Comparative analysis of different bureaucratic structures and processes in industrialized and developing areas of the world.

777X Violence and Politics
30 hours plus conference; 3 credits
Examination of violence in the politics of each world region. Study of civil war, political conflict, civil strife, economic protest, identity-based discrimination, violent crime, vigilantism, and other forms of violence in the development of countries and their current conditions.

778X Political Development
30 hours plus conference; 3 credits
The concept of development as a framework for the study of politics. Basic political concepts common to developing or Third World political systems and highly developed or technologically advanced political systems. Aspects of the process of development. Characteristic problems of societies at various stages of development. Patterns of interaction between developing and industrially advanced societies. Impact of these relationships on world politics.

779X Postindustrial Politics and the State
30 hours plus conference; 3 credits
Examination of the nature, structure, and role of the modern state in diverse advanced, industrial settings. Political, economic, and social forces impinging on the state and its capability to respond to these challenges, demands, and expectations.

789.1X Selected Topics in Comparative Politics
30 hours plus conference; 3 credits
Topics vary from term to term. Students may take this course four times, but may not repeat topics. (Not open to students who have completed the same topic in Political Science 789.2X, 789.3X, or 789.4X.)

Research courses

791G Master’s Thesis
30 hours plus conference; 3 credits
Research and writing of a master’s thesis supervised by a faculty member. Students should see the graduate chair for guidelines, and must complete the thesis within two semesters.

793X Research Tutorial
Hours to be arranged; 1 credit
A one-credit course for students completing their thesis or preparing for the comprehensive exam, designed to provide support for successful completion of these requirements through a focus on political science methodology, analysis, and scholarship.

Prerequisite or corequisite: Approval of the graduate deputy and completion of all required course work except the thesis, final project, comprehensive or foreign language examination.

794X Independent Study
Hours to be arranged; 3 credits
Study of a selected topic in political science developed by the student and a faculty advisor, with a set of readings, written assignments, and regular meetings.

Prerequisite: at least 21 credits completed and permission of the deputy chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

723X Survey Research
742X Law and the Behavioral Sciences
744X Government and Defense
771.4X, 771.5X Political Systems in Developing Areas: Regional Analysis

771.4X Africa, South of the Sahara
771.5X North Africa
792G International Internships
Office: S401 James Hall  
Telephone: 951-5601

Chairperson: R. Glen Hass  
Deputy Chairperson, Division of Graduate Studies:  
Benzion Chanowitz  
Deputy Chairperson, CLAS: David R. O wen  
Deputy Chairperson, SGS: Alvin Snadowsky  
Professors: Abramov, Erdelyi, Hairline, Hass, Kuhlman, O sman, O wen, Pipe, Puchkoff, Romer, Sclafani, Snadowsky;  
Associate Professors: Brauner, Chanowitz, Delamater, Grasso, Hardin, Kozbelt, Kurtylo, McDonough, Weston;  
Assistant Professors: Kacinik, Rabin, Reigada, Robles-Rodriguez, Waldier.

M.A. in experimental psychology  
HEGIS code 2002; SED program code 90064

This program allows students to concentrate in the broad areas of cognition, learning, perception, and physiological, developmental, and social psychology. Focus is on preparation for a career in basic or applied research in a variety of settings. This program, which is approximately the same as the first 30 credits of the CUNY psychology doctoral subprogram in cognition, brain and behavior, based at Brooklyn College, is useful for those who wish to enroll in a doctoral program in psychology.

Matriculation requirements
Applicants must offer a minimum of 12 credits in undergraduate courses in psychology or evidence of appropriate background in related fields.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty to 36 credits are required for the degree, a minimum of 24 of which must be taken in the Psychology Department.

Courses in the Psychology Department offered toward the degree must be 700-level courses.

Students must pass a comprehensive examination after completing 24 credits in psychology courses.

Students must submit a thesis acceptable to the department or take an additional 6 credits of 700-level courses. This 6-credit option must be approved by the deputy chairperson. Information about requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.”

Experimental Psychology: Concentration in the broad areas of cognition, learning, perception, and physiological, developmental, and social psychology. Focus is on preparation for a career in basic or applied research in a variety of settings. This program is approximately the same as the first 30 credits of the CUNY doctoral program. Required courses include Psychology U705G and U706G; the remainder of each student’s program must be approved by the deputy chairperson.

M.A. in industrial and organizational psychology-human relations  
HEGIS code 2008; SED program code 90065

This program prepares the student for entry-level executive positions as generalists in the areas of personnel and human resources in organizations or for comparable-level positions in consulting firms that offer their services in these areas. It shares a common core of five courses with other concentrations in industrial and organizational psychology, but places additional emphasis on theory and practice at the group level of organizational activity.

Matriculation requirements
Applicants must offer a minimum of 12 credits in undergraduate courses in psychology or evidence of appropriate background in related fields.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty to 36 credits are required for the degree, a minimum of 24 of which must be taken in the Psychology Department.

Courses in the Psychology Department offered toward the degree must be 700-level courses.

Students must pass a comprehensive examination after completing 24 credits in psychology courses.

Students must submit a thesis acceptable to the department or take an additional 6 credits of 700-level courses. This 6-credit option must be approved by the deputy chairperson. Information about requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.”

Students select one of the following programs. The program of study for each is individually approved by the department.

Psychology and Behavior: Training in individual, group, and organizational processes with emphasis on a psychodynamic and sociotechnical orientation. The focus is on training management generalists as well as those who intend to specialize in the human resources and organization development areas, including both career-entry and midcareer professionals.
Required courses are Psychology 778G, 779G, 785.1G, 786.09G, 786.10G, 786.20G, 787.10G, 788.10G; the remainder of each student's program must be approved by the program director.

Industrial and Organizational Psychology-Human Relations: The development of personal and social awareness, understanding of the individual acting in a social context, and the acquisition of a knowledge of group processes and evaluation techniques. The focus is on developing human relations facilitators who are able to promote behavior change and skills acquisition in a variety of public and private settings. Required courses are Psychology 770.1G, 772G, 774G, 776G, 778G, 779G, 785.1G, 787.10G, and one additional course from 786.20G, 786.21G, 787.20G, 788.10G, 788.11G, or 788.20G; the remainder of each student's program must be approved by the program director. Students electing the thesis option may be exempted from certain required courses and must have their total program approved by the director as early as possible.

M.A. in mental health counseling
HEGIS code 2104.10; SED program code 30978
This program combines experiential learning through counseling practicum experience in mental health settings with comprehensive course work and prepares students for a practice in mental health counseling. Students focus primarily on clinical work with adults and families. After 3,000 hours of supervised, post-degree experience, students are eligible to take the licensing exam to permit private/independent practice of counseling and are equipped for a career in mental health counseling.

Matriculation requirements
Applicants must offer a minimum of 15 credits in undergraduate courses in psychology, with at least one course in each of the following areas: child or adolescent (developmental) psychology; general or introductory psychology; abnormal psychology; personality or psychopathology; and statistics or evidence of appropriate comparable background in related fields. Applicants must make a formal statement, including discussion of related work, internship and/or personal experiences. Applicants must also submit letters of recommendation from individuals familiar with applicants' professional and academic experience. The program invites selected applicants to participate in an interview and to complete an on-site writing sample.

General matriculation and admission requirements of the Division of Graduate Studies are in the section "Admission."

Degree requirements
Sixty credits are required for the degree, a minimum of 48 of which must be taken in the Psychology Department.

Students must pass a comprehensive examination after completing 48 credits.

Required courses are: 744.10G, U720G, U755G, 788.21G, U771G, 754.10G, 754.11G, 754.20G, 754.30G, 772G, 754.40G, 795.10G, 754.50G, 779G, 795.20G, 788.22G; the remainder of each student's program must be approved by the program director. The program may be completed on either a full- or part-time basis.

New York State Mental Health Counseling Licensing

Three thousand hours of supervised post-degree experience are required to be eligible to take the examination for licensure permitting private practice of mental health counseling. Information about New York State licensing for mental health counseling may be found at www.op.nysed.gov/mhp.htm.

CUNY Ph.D.
The City University doctoral psychology subprogram in cognition, brain and behavior is based at Brooklyn College. Many of the courses offered at Brooklyn College may be creditable toward the CUNY doctoral degree. Candidates who complete the master of arts may apply for admission to the doctoral program.

Further information may be obtained from the doctoral subprogram director or from the Bulletin of the Graduate School and University Center. Students may obtain the Bulletin from the Graduate School and University Center, CUNY, Office of Admissions, 365 Fifth Avenue, New York, New York 10016. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.”

Courses
Students may apply graduate or undergraduate courses toward fulfillment of a prerequisite unless otherwise stated.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

U700G History of Psychology
45 hours; 3 credits
Historical development of modern psychology.

U703G Research Methods and Design I
45 hours; 3 credits
Consideration of the basic principles of research methodology as involved in the design of psychological research. Attention given to possible and likely sources of confounding in behavioral research and appropriate control procedures for dealing with them.

U704G Instrumentation in Experimental Psychology
30 hours lecture, 30 hours laboratory; 3 credits
Lecture and laboratory illustrating the use of physical instruments in the generation of stimuli and measurement of responses. Techniques taught are general rather than specific to any particular area in psychology. No specialized background is assumed. (Not recommended for students with extensive experience in programming psychological equipment.)
U705G Statistical Methods in Psychology I
30 hours lecture, 30 hours conference or laboratory; 3 credits
Advanced treatment of basic concepts of probability and inferential statistics. Statistical tests based on binomial, normal, chi-square, t, F distributions. (Not open to students who have completed Biology 781G.)

U706G Statistical Methods in Psychology II
30 hours lecture, 30 hours conference or laboratory; 3 credits
Continuation of Psychology U705G. Complex experimental designs; standard techniques of fitting curves to data; correlation; nonparametric and short-cut methods.
Prerequisite: Psychology U705G.

U707G Multivariate Statistical Methods
45 hours; 3 credits
Detailed analysis of some major multivariate statistical procedures. Multiple regression; discriminant function analysis; multivariate analysis of variance; canonical correlation; factor analysis.

U710G Advanced Physiological Psychology I
45 hours; 3 credits
Mechanisms of excitation; synaptic interaction; advanced topics in sensory psychophysiology; rhinencephalon and affective behavior.
Prerequisite: an undergraduate course in physiological psychology

U711G Advanced Physiological Psychology II
45 hours; 3 credits
Comprehensive survey of brain-behavior relationships. Neurological, physiological, biochemical, endocrinological approaches to defining behavior processes.
Prerequisite: Psychology U710G.

U716G Comparative Psychology
45 hours; 3 credits
Major topics in this field.
Prerequisite: an undergraduate course in comparative psychology.

U720G Developmental Psychology
45 hours; 3 credits
Survey of psychological development throughout childhood and adolescence.

U730G Psychology of Learning
45 hours; 3 credits
Representative investigations and theories of learning.

U735G Psychology of Perception
45 hours; 3 credits
Experimental foundations and theoretical approaches to problems in perception.

U736G Sensory Psychology
45 hours; 3 credits
Detailed consideration of sensory processes and their mediating neural mechanisms.

U738G Cognitive Psychology
45 hours; 3 credits

U740G Advanced Psychology of Personality
45 hours; 3 credits
Discussion and reports on topics in the field.
Prerequisite: a course in the psychology of personality.

U741 Psychoanalytic Theory I
45 hours; 3 credits
Historical development of psychoanalytical theory is traced through a study of Freud's work. Major papers of each period of development are selected for detailed study and discussion.

744.10G Foundations of Mental Health Counseling
45 hours; 3 credits
Introduction to mental health assessment, counseling and psychotherapy; counseling and psychotherapy research; professional, ethical, and multicultural issues.
Prerequisite: permission of chairperson.

U745G Human Motivation
45 hours; 3 credits
Review of theory and research on such major current topics as arousal, curiosity, anxiety, achievement motivation, conflict, reinforcement, social motivation. Some consideration of methods of measuring human motivation.
Prerequisite: a graduate course in personality or learning.

U746G Advanced Social Psychology
45 hours; 3 credits
Advanced topics in social psychology.
Prerequisite: a course in social psychology.

U747G Experimental Social Psychology
45 hours; 3 credits
Critical examination of selected areas and relevant research methods in social psychology. Independent or group research on selected problems.
Prerequisite: Psychology U705G and U746G.
U752G Language and Thought
45 hours; 3 credits
The nature, acquisition, behavioral effects of language. Language is studied in its phonological (phonetic), morphological (grammatical-rhetorical), semiological (semantic) aspects. Nature of semiotics (syntax, semantics, and pragmatics), ambiguity, metaphor, bilingualism.

U752.1G Computer Simulation of Psychological Process
45 hours; 3 credits
Discussion of attempts to simulate complex mental phenomena by computer. Value of making psychological theories explicit using computer models. Analysis of problems in the construction and evaluation of these models; examples from the fields of perception, problem solving, personality.

U752.2X Foundations of Cognitive Science
45 hours; 3 credits
Bases for intelligent behavior in humans, animals, and machines. Human and machine intelligence are compared with respect to visual perception, speech perception, language comprehension, learning, and other adaptive mechanisms. This course is the same as Computer and Information Science 732.1X.
Pre-requisite: a course in probability and statistics; and knowledge of such high-level programming languages as Pascal, PL/I, or LISP.

U752.3G Natural-Language Processing
45 hours; 3 credits
The study of natural-language processing including linguistic theory, the formal theory of languages, and psycholinguistic investigations into human natural-language processing both from the point of view of modeling human processing and of developing practical systems for machine processing of natural-language material. This course is the same as Computer and Information Science 733X.
Pre-requisite: Computer and Information Science 622X or a course in data structures.

754.11G Mental Health Counseling Practicum
45 hours; 3 credits
Introductory mental health counseling and psychotherapy practicum; basic counseling techniques. Prerequisite: Psychology 788.31G and permission of the chairperson.

754.20G Psychodynamic Approaches to Counseling and Psychotherapy
45 hours; 3 credits
Introduction to psychodynamic approaches to mental health counseling and psychotherapy.
Pre-requisite: permission of chairperson. Pre- or co-requisites: Psychology 744.10G Foundations of Mental Health Counseling; Psychology U720G Developmental Psychology; Psychology U755G Psychopathology; and Psychology 788.21G Assessment Techniques.

754.30G Cognitive and Behavioral Approaches to Counseling and Psychotherapy
45 hours; 3 credits
Introduction to cognitive and behavioral approaches to counseling and psychotherapy.
Pre-requisite: permission of chairperson. Pre- or co-requisites: Psychology 744.10G Foundations of Mental Health Counseling; Psychology U720G Developmental Psychology; Psychology U755G Psychopathology; and Psychology 788.21G Assessment Techniques.

754.40G Experiential Approaches to Counseling and Psychotherapy
45 hours; 3 credits
Introduction to experiential and humanistic approaches to counseling and psychotherapy.
Pre-requisite: permission of chairperson. Pre- or co-requisites: Psychology 744.10G Foundations of Mental Health Counseling; Psychology U720G Developmental Psychology; Psychology U755G Psychopathology; and Psychology 788.21G Assessment Techniques.

754.50G Assessment, Counseling and Psychotherapy with Couples and Families
45 hours; 3 credits
Introduction to counseling and psychotherapy with couples and families; related research.
Pre-requisite: permission of chairperson. Pre- or co-requisites: Psychology 744.10G Foundations of Mental Health Counseling; Psychology U720G Developmental Psychology; Psychology U755G Psychopathology; and Psychology 788.21G Assessment Techniques; Psychology 754.20G Psychodynamic Approaches to Counseling and Psychotherapy.

U755G Psychopathology
45 hours; 3 credits
Intensive study of case material in psychological literature of
some theoretical and practical problems in the diagnosis, etiology, and dynamics of psychological disorders.
Prerequisite: Permission of the chairperson

**U763G Psychophysical Methods**
45 hours; 3 credits
Systematic study of current psychophysical theory and methods including traditional approaches and more recent developments.

**770.1G Human Relations Training Seminar I**
45 hours; 3 credits
A training-group approach. Participant orientation to group processes; assessment of such relevant interpersonal competences as leadership and assertiveness; observation and analysis of group process; group diagnosis; personal development; improvement of interpersonal skills; intervention analysis. (Not open to students who have completed Psychology 770G, 771G.)
Prerequisite of 770.1G: permission of the deputy chairperson.

**U771G Ethical and Legal Issues for Psychologists**
45 hours; 3 credits
Ethical and legal issues that arise in all aspects of the functioning of psychologists as scientists, academics, and practitioners. Students will be introduced to the ethical principles of the professional and relevant legal issues. Illustrative cases will be drawn from the American Psychological Association publication, Ethical Principles in Psychology, and from other courses. These will be discussed in order to facilitate the recognition and analysis of ethical problems that arise in a variety of settings, including animal as well as human research, clinical practice, and consultation.

**772G Theories of Group Process**
45 hours; 3 credits
The conceptual underpinnings and methodological perspectives of group process. The theories that have developed to support the activities that promote learning and change in individuals participating in a small group interactive experience. The relevance of theoretical models and cognitive structures in small groups.
Prerequisite: permission of the chairperson.

**774G Intervention Theory and Practice I**
45 hours; 3 credits
Analysis of the types of intervention available to the group leader and an evaluation of their effects on learning within the group. Intervention strategies are explored in the context of a variety of potential group situations. The development of individual intervention styles for increasing effectiveness is emphasized.
Prerequisite: Psychology 770.1G and permission of the deputy chairperson.

**776G Psychology of Small Groups I**
45 hours; 3 credits
Development of small groups; theories of group development. Study of group processes; factors that enhance or inhibit group effectiveness and productivity; practice in group diagnostic skills; individual skills that increase group effectiveness.
Prerequisite: permission of the deputy chairperson.

**777G Psychology of Small Groups II**
45 hours; 3 credits
Continuation of Psychology 776G.
Prerequisite: Psychology 776G and permission of the deputy chairperson.

**778G Quantitative Techniques in Industrial and Organizational Psychology**
45 hours; 3 credits
This course will focus on the applications of statistics relevant to problems in industrial and organizational psychology. In addition to standard descriptive and inferential statistical procedures, the course will include a wide variety of correlational procedures, nonparametric procedures, chi-square, survey design procedures, and psychological scaling techniques.
Prerequisite: permission of the deputy chairperson.

**779G Research and Program Evaluation Methods in Applied Psychology**
45 hours; 3 credits
A critical examination of a wide variety of research and program evaluation designs and methods used in applied areas of psychology.
Prerequisite: Permission of the chairperson.

**779.1G Special Topics in Human Relations Training**
45 hours; 3 credits
Topics vary from term to term.

**781G Research in Psychology**
45 hours; 3 credits
Research for master’s thesis supervised by a faculty member. Credit is not earned until the thesis is accepted. Students register for this course only once.

**785.1G Psychological Concepts and Methods: Issues In Organizational Psychology**
45 hours; 3 credits
Introduction to major psychological concepts applicable in organizational theory. Includes scientific basis of psychology, experimental methods, psychodynamic personality theory, psychopathology, relevant topics in social psychology, motivation theory, group behavior theory.
786.10G Social Systems Sciences Theory: Assessing Organizational Structure, Design, and Technology
45 hours; 3 credits
Review of macro-theory concerning structures and processes within major subsystems, organizations, and their environments, and the linkages among them. Assessment of macro-oriented organizational research.
Prerequisite or corequisite: Psychology 785.1G.

786.20G Macro-Organizational Applications: Organizational Diagnosis and Consultation
45 hours; 3 credits
An evaluation of methods of organizational diagnosis including psychodynamic and sociotechnical approaches. Special attention will be paid to the use of psychoanalytic theory in organizational diagnosis and consultation.

787.10G Social Systems Sciences Theory: Group Relations Issues in Organizational Psychology
45 hours; 3 credits
Introduction to the major theoretical approaches to analysis of group and intergroup behavior in organizational settings. Primary focus on psychodynamic interpretation of group dynamics and behavior. Topics: primary task; task and sentient groups; basic assumption groups; role of anxiety, defense, and regression; nature of leadership and authority; developmental trends in groups.
Prerequisite or corequisite: Psychology 785.1G.

787.20G Group Relations Applications: Approaches to Training and Development
45 hours; 3 credits
Examination of specific cases of training and organization development with groups. Special emphasis on recent corporate interventions.
Prerequisite: Psychology 785.1G and 787.10G or permission of the instructor.

787.22G Labor Relations: Quality of Working Life Issues, Productivity, and Unions
45 hours; 3 credits
Assessment of the relationship between quality of working life, changes in productivity, and the negotiations process. Examination of contemporary labor-management experiments.
Prerequisite: Psychology 785.1G and 787.10G or permission of the instructor.

788.10G Social Systems Sciences Theory: The Individual in the Organization
45 hours; 3 credits
Introduction to the major theoretical approaches to analysis of individual behavior in organizational settings. Primary focus is on psychodynamic interpretation of individual behavior in a group and organizational context. Topics: person/role boundary; role of anxiety, defense, and regression; nature of leadership and authority; work attitudes (job satisfaction, job involvement, and organizational climate); motivational traits and environments; job performance.
Prerequisite or corequisite: Psychology 785.1G.

788.11G Leadership, Power, and Executive Stress
45 hours; 3 credits
Alternative theories of leadership, power, and executive stress in organizations.
Prerequisite: Psychology 785.1G and 788.10G or permission of the instructor.

788.20G Human Resources Management Applications: The Individual/Organizational Boundary
45 hours; 3 credits
Current corporate examples of human resource systems and their impact on the individual. Topics: manpower planning; assessment centers; performance appraisal; wage and salary administration; benefit programs; incentives; and performance standards.
Prerequisite: Psychology 785.1G and 788.10G or permission of the instructor.

788.21G Assessment Techniques
45 hours; 3 credits
Clinical techniques in assessment.
Prerequisite: permission of the chairperson.

788.22G Career Development
45 hours; 3 credits
Career development patterns in relation to maturation. Special attention to mid-career crisis, career change, obsolescence, outplacement, and retirement.
Prerequisite: Psychology 785.1G and 788.10G or permission of the instructor.
788.29G International Human Resource Management
45 hours; 3 credits
Human resource decisions and practices in an international context. Topics include: recruiting, selection, expatriation, repatriation, training, career management, performance management, compensation, and cross-cultural issues. This course is the same as Business 718X.
Prerequisite: an undergraduate course in human resource management or permission of the instructor.

788.31G Assessment Practicum
45 hours; 3 credits
Clinical interviewing and psychological assessment practicum.
Prerequisite: permission of the chairperson. Pre-or co-requisite: Psychology 788.21G.

791.1G, 791.2G Independent Reading
Minimum of 135 hours of independent work and conference; 3 credits
Reading, approved by a faculty adviser, in an area of psychology. One or more written reports or a final examination. (Psychology 791.1G is not open to students who have completed Psychology 791G.)
Prerequisite: matriculation in the psychology program.

795.10G Mental Health Counseling Internship I
90 hours; 6 credits
A term (at least 300 hours) of supervised internship in a mental health work setting similar to that in which the student expects to work as a counselor. Interns are expected to perform a full range of mental health counseling functions supervised by college and site personnel.
Prerequisite: permission of chairperson; completion of Psychology 754.20G and 754.30G.

795.20G Mental Health Counseling Internship II
180 hours; 6 credits
A term (at least 300 hours) of supervised internship in a mental health work setting similar to that in which the student expects to work as a counselor. Interns are expected to perform a full range of mental health counseling functions supervised by college and site personnel.
Prerequisite: permission of chairperson; completion of Psychology 795.10G Mental Health Counseling Internship I.

799.1G, 799.2G Independent Psychological Research
Minimum of 135 hours; 3 credits
Research project supervised by a faculty member. (Psychology 799.1G is not open to students who have completed Psychology 799G.)

The following courses are inactive and will be offered only if there is sufficient demand:
U718G Ethology
U733G Information and Decision Processes in Human Behavior
U737G Development of Cognition
U742 Psychoanalytic Theories II
770.2G Human Relations Training Seminar II
773G Theories of Group Process
775G Intervention Theory and Practice II
U780G Quantitative Methods in Psychology
786.09G Organizational Psychodynamics
786.11G Systems Approaches to the Psychology of Work
786.12G Planning and Control System Psychology
786.21G Strategies of Intervention in Organizations
786.22G Psychology of High-Technology and MIS Implementation
787.11G Sociotechnical Systems Analysis: Autonomy in Groups
787.12G Action Research, Psychodynamic Theory, and Group Motivation
787.21G Small Work Group Consultation
788.12G Human Factors in Design and Engineering
788.22G Career Development
Puerto Rican and Latino Studies

Office: 1205 Boylan Hall
Telephone: 951-5561, 951-5562, 951-5563

Chairperson: María E. Pérez y González
Acting Chairperson: Antonio O. Nadal
Associate Professor: Pérez y González;
Assistant Professors: A. Aja, M.J. Martinez, V.Y. Perez;
Lecturer: Nadal.

The Brooklyn College Department of Puerto Rican and Latino Studies, formerly the Department of Puerto Rican Studies, established in 1970, was engendered by the civil rights movements and student activism. The department, committed to community involvement, is focused on Puerto Rico and Latin America, and stateside Puerto Ricans and Latinas/Latinos/Hispanics.

The department offers courses in conjunction with other College departments and programs, including Africana studies, American studies, anthropology and archaeology, archival studies (Brooklyn College Library), Caribbean studies, children's studies, economics, comparative literature (English), history, human resource management and diversity studies (sociology), interdisciplinary studies (communication), studies in religion, sociology, and women's studies as well as the Conservatory of Music. Our department also participates in the graduate teaching fellows program of the Brooklyn College School of Education.

Students are encouraged to utilize the research resources of the Brooklyn College Center for Latino Studies as well as the CUNY Center for Puerto Rican Studies at Hunter College.

The following courses are offered as electives for students in other fields: Puerto Rican and Latino Studies 614X, 741X, and 770X are among the required courses for students in the master of science in education degree program in elementary education who are specializing in bilingual teaching and planning to teach children whose native language is Spanish. Puerto Rican and Latino Studies 750X or 751X may be taken to fulfill requirements for the master of arts degree program in Spanish offered by the Modern Languages and Literatures Department.

Courses

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

614X Puerto Rican Society
30 hours plus conference; 3 credits
Colonial heritage and its evolution in Puerto Rican society. Contemporary social reality in Puerto Rico in terms of foreign and native influences. Issues of race, gender, class, and identity. Role of family, social interpretation of historical processes with regard to trends and attributes accepted, transmitted, developed in the society. Collaborative research project.

740X Schools and Language Communities
30 hours plus conference; 3 credits
Focuses on selected language communities in the United States urban environment. Urban areas as multicultural/multilingual microcosms. Importance of language variety. Development of new curricular models designed to address the needs of students from diverse ethnolinguistic backgrounds. Theories, writings, and research studies in linguistics and sociolinguistics. Community-based influence on language expectation and attitudes. Intergenerational language shifts. Awareness of community and home language use as necessary toward the transformation of the school setting.
Prerequisite: permission of the chairperson.

741X Bilingualism: Characteristics and Practices
30 hours plus conference; 3 credits
Study of the acquisition of two or more languages with special emphasis on Spanish-English bilingualism in the U.S. Philosophy and general practices related to bilingual programs in U.S. schools. International perspectives on bilingualism with selected case studies. Discussion of language policy and planning in developed and developing countries. Theories, writings, research studies in socio- and psycholinguistics. Application centered on the psycho-sociological background for language development in Puerto Rican and other Latino children. Independent research and professional development workshops. (Not open to students who have completed Puerto Rican and Latino Studies 641X.)
Prerequisite: 3 graduate credits in education, the social sciences, or the humanities or permission of the chairperson.
770X Puerto Rican and Latino Communities in Urban Areas
30 hours plus conference; 3 credits
Historical overview of the social, political, cultural, and organizational development of Puerto Rican communities set within the broader context of Latino history in the United States. Population and demographic distribution in urban areas. The significance of the New York Puerto Rican community. Analysis and evaluation of institutions created by Puerto Ricans and other Latinos; impact on mainstream culture. Interdisciplinary and intergenerational perspectives. Independent community study project. 
Prerequisite: Puerto Rican Studies 614X or 3 graduate credits in the social sciences or humanities or permission of the chairperson.

773X Summer Seminar
45 hours lecture, 90 hours supervised fieldwork and independent study; 6 credits
In cooperation with institutions of higher education in Puerto Rico, the United States, the Spanish-speaking Caribbean, or Latin America, the department offers opportunities for advanced work in Puerto Rican studies. Field trips to places of cultural and historical significance. Lectures by scholars from Brooklyn College and the host country. Independent and/or group research. Students may take the course for credit twice, with the permission of the chairperson, but may not repeat countries. Consult department for locale of a specific offering. Travel and accommodation fees are required. 
Prerequisite: permission of the chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:
750X Puerto Rican Narrative and Drama
751X Puerto Rican Poetry and Essay

Sociology
Office: 3612 James Hall
Telephone: 951-5314, 951-5315, 951-5316
Chairperson: Kenneth A. Gould
Deputy Chairperson, Division of Graduate Studies: Alex S. Vitale
Professors: Gould, Lenzer, Satow, Zukin; Associate Professors: Fishman, Shortell; Assistant Professors: Bank, Braine, Mose Brown, Muñoz, Vitale.

M.A. in sociology
HEGIS code 2208; SED program code 02110
This master of arts program is designed to help students advance their skills in the theories and methods used by sociologists as well as provide in-depth study in a variety of elective areas such as criminology, gender, class stratification, and urban sociology. Our students have access to a variety of support services including our computer lab, sociology lounge, and seminar room. All of our classes emphasize critical thinking and writing skills. Most courses have a seminar format with extensive interaction between students and faculty. All classes are offered in the evening to accommodate work schedules.

Many of our graduates are interested in going on to doctoral programs in sociology and we work with them to try to accomplish their goal. Others are currently employed and are pursuing a degree that will help them advance their present careers or move into new careers in government, social services, or community organizations.

Matriculation requirements
Applicants must offer at least 12 credits in advanced courses in sociology including courses in social theory and methods of research.

In addition, applicants must provide a personal statement and a recent sample of their written work (such as a graded term paper from a social science course).

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty to 32 credits are required for the degree. Students must complete 24 credits in the Sociology Department. The following courses are required: Sociology 701X, 702X, 710X, 711X, and 712G. Students must complete Sociology 701X, 702X, 710X, and 711X with a grade point average of 3.00 or higher to maintain matriculation in the master's degree program in sociology.

Students who have completed a graduate course in statistics or pass an examination in statistics may be exempt from Sociology 712G with permission of the deputy chairperson.

The remaining credits required for the degree must be chosen in consultation with the deputy chairperson.

Students must pass a comprehensive examination. Under special circumstances, and with permission of the graduate
deputy chairperson, the comprehensive examination may be waived in favor of a long master's research essay (minimum of forty pages) or two shorter master's research essays (minimum of twenty pages each).

The comprehensive examination will cover sociological theory, sociological research methods, and one special sociological area. Students who are permitted to write a long master's research essay or two shorter master's research essays are required to take 770.1G and, if deemed necessary by the deputy chairperson, 770.2G in addition to the 30 credits required for the degree. These two courses may only be taken after the completion of 21 credits in sociology. A three-person faculty committee, appointed by the graduate deputy chairperson, will evaluate the comprehensive examination or the master's research essay(s).

Courses in the Sociology Department offered toward the degree must be 700-level courses.

The program of study must be approved by the deputy chairperson.

CUNY Ph.D.

The City University of New York offers a doctoral program in sociology. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Sociology Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Sociology Department and the executive officer of the doctoral program.

Courses

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

613X Minority Groups
30 hours plus conference; 3 credits
Immigration movements to the United States. Refugees and policies regarding refugees. Cultural heterogeneity and emergence of new cultural syntheses. Ethnic and racial structure of the American people. Problems of adjustment and assimilation. Methods of solving intergroup tension and antagonism. (Not open to students who have completed Sociology 713X.)
Prerequisite: an introductory course in sociology.

614X Sociology of Urban Communities
30 hours plus conference; 3 credits
Institutional and interpersonal concomitants of city life. Ancient and modern history of urban development. Major works and theorists. (Not open to students who have completed Sociology 724X.)
Prerequisite: an introductory course in sociology.

651X Deviance and Social Problems
30 hours plus conference; 3 credits
Relationships between deviant behavior and social definitions of deviance. How definitions of deviance emerge when social problems are attributed to certain categories of people. Types of deviance include mental illness, physical disability, sexual deviations, alcoholism, drug addiction, retardation. Prerequisite: an introductory course in sociology.

701X Development of Sociological Theory
30 hours plus conference; 3 credits
Critical examination of major treatises and schools in the development of sociological theory from Comte to twentieth-century theorists.

702X Contemporary Sociological Theory
30 hours plus conference; 3 credits
Critical discussion of current sociological theory. Relation of contemporary theory to empirical research.

710X Quantitative Methods of Sociological Research
30 hours plus conference; 3 credits
Quantitative concepts and methods, including computer and other techniques used in large-scale surveys. Application of such concepts and methods to problems in social research.

711X Qualitative Methods of Sociological Research
30 hours plus conference; 3 credits
Qualitative concepts and methods of sociological research; their application in representative published studies. Prerequisite: Sociology 710G.

712G Statistics for Sociologists
30 hours plus conference; 3 credits

714X Social Class
30 hours plus conference; 3 credits
Various class, estate, caste systems. Their influences on behavior and values. Their relation to political power, social prestige, consumption style. Social mobility.

723X Dynamics of Modernization
30 hours plus conference; 3 credits
Developing communities, regions, nations. Social factors in economic and technological change. Case studies of
industrialization in traditional and folk societies; values, institutions, social stratification. Social planning of modernization: coercive and noncoercive change. Normative considerations in changing values and societal goals.

**729X Advanced Criminology**
30 hours plus conference; 3 credits
Major sociological and cultural forces that lead to crime. Criminal behavior viewed as separable behavioral systems and as adaptations to variations in cultural standards and the social structure.

**733X Sociology of Power**
30 hours plus conference; 3 credits

**745X Immigrants in New York City**
30 hours plus conference; 3 credits
Immigration and immigrants in New York City in both historical and contemporary context. Major sociological perspectives on immigration. The immigrant experience in New York City. Immigrant organization and mobilization in New York City.

**749X Sociology of Gender**
30 hours and conference; 3 credits
Exploration of the social construction of gender as a major social category and its production and maintenance as a master social status. Issues that will be explored are: gender and parenting; social scripting of sexuality; micropolitics of gender; gender, production, and power in nonindustrialized societies; gender and class in industrialized societies; occupational gender segregation in post-industrial societies; gender, class, and racial oppression in the United States; theories and strategies of feminism.

**750X Sociology of Socialization**
30 hours plus conference; 3 credits
Social interactive processes that shape the individual's identification and participation in society. Social learning of culturally preferred and variant values, norms, role identifications and behaviors. Internalization and reinforcement by cumulative participation in role relationship systems of family, friends, school, religion, work. Dynamic interplay between primary and later socialization. Conflict and consensus among varying socialization sources. Functioning in social stability and social change including conditions of drastic resocialization.

**751X Social Conflict**
30 hours plus conference; 3 credits

**752X The Sociology of Private Relationships: Marriage, Family, and Other Significant Relationships in Modern Society**
30 hours plus conference; 3 credits
Analysis of interpersonal relationships and institutions in private life; their evolution under the influence of modernization, urbanization, technological change, secularization, and modern legal theory; their impact on social identity, child rearing, education, and social organization.

**753X The “New Old”: Explorations in the Sociology of Aging**
30 hours plus conference; 3 credits
Changing demography of aging and emergence of the “new old.” Comparison with the emergence of childhood and adolescence in earlier phases of Western history. Problem of adjusting theory and research to the rapidly changing character of older populations. Alternative perspectives on the study of aging. Continuity and discontinuity over the life cycle. Aging, social change, and social isolation. Contrasting views on the prospects of an “age irrelevant” society.

**761X Seminar in Sociology**
30 hours plus conference; 3 credits
Lecture, reading, reports on selected topics in advanced sociology. Content of the course varies and is determined by students and instructor.

**763X Research Seminar in Sociological Theory**
30 hours plus conference; 3 credits

**764X Research Seminar in the Urban Community**
30 hours plus conference; 3 credits

**770X Independent Reading**
Minimum of 135 hours of independent work and conference; 3 credits
Critical study in an area of sociology selected by the student, of reading approved by a faculty adviser. One or more written reports or a final examination.
Prerequisite: matriculation in the sociology program and permission of the deputy chairperson.
**770.1G, 770.2G Independent Research for Master's Research Essay(s)**

15 hours each plus conference; 1 credit each term

Research supervised by a faculty member in preparation for two 20-page master's research essays or one 40-page master's research essay. The work must be awarded a grade of B or higher in order to be eligible for consideration toward the completion of the master of arts degree in sociology. Students register for these courses only once.

Prerequisite: 21 credits in sociology and permission of the deputy chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>610X</td>
<td>Introduction to Sociology of Religion</td>
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<td>612X</td>
<td>Social Movements</td>
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<td>621X</td>
<td>Sociology of Sex Roles</td>
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<td>622X</td>
<td>The Family</td>
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<td>624X</td>
<td>Mass Communications in Modern Society</td>
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<td>627X</td>
<td>Culture and Personality</td>
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<td>641X</td>
<td>Introduction to Crime and Delinquency</td>
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<td>722X</td>
<td>Bureaucracy and Organizations</td>
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<td>725X</td>
<td>The New York Metropolitan Region</td>
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<td>744X</td>
<td>The Sociology of the American Jewish Community</td>
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<tr>
<td>754X</td>
<td>Sociology of Mental Health and Illness</td>
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<tr>
<td>755X</td>
<td>Sociology of Medicine</td>
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</tbody>
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**Speech Communication Arts and Sciences**

Office: 3439 Boylan Hall
Telephone: 951-5225, 951-5226, 951-5227

Chairperson: Michele Emmer
Deputy Chairperson, Division of Graduate Studies: Gail Gurland
Interim Deputy Chairperson, Division of Graduate Studies: Renée L. Fabus
Professors: Chapey, Cherry, Gura, Gurland, Lu, Rubinstein, Silman;
Associate Professors: Emmer, Haas, Marton, Schaeffer;
Assistant Professors: Barriere, Fabus, Leydon, Longtin, Thomas, Wong;
Lecturer: Stein.

The Speech Communication Arts and Sciences Department programs in audiology and in speech-language pathology have been accredited by the Educational Standards Board of the American Speech-Language-Hearing Association.

**M.A. in speech**

HEGIS code 1506; SED program code 81376

The master of arts degree in speech is being redesigned and the program is not currently accepting applications.

Public communication.

**Matriculation requirements**

Applicants must offer at least 18 credits in courses in speech including courses in argumentation and discussion.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Degree requirements**

Thirty credits and a thesis or two terms of Speech 798.6X are required for the degree.

Eighteen to 24 credits must be completed in courses in the Speech Department. The following courses are required of all students: Speech 702X, 751X, 753X, 756X, 758X, and 759X. Students who choose to write a thesis must also take Speech 799G. Students who do not choose to write a thesis must also take two terms of Speech 798.6X.

The remaining 12 credits required for the degree may be chosen from other departments with the approval of the department chairperson.

Students must pass a written comprehensive examination. Information about requirements for the comprehensive examination and thesis is in the section “Academic Regulations and Procedures.”

Courses in the Speech Department offered toward the degree must be 700-level courses.

The program of study must be approved by the department chairperson.
M.S. in speech-language pathology and audiology  
HEGIS code 1220; SED program code 77741

This master of science degree program prepares students for careers as speech-language pathologists in community speech, language, and hearing centers, hospitals, school settings, rehabilitative agencies, and private practice. Academic, clinical, and research opportunities covering the range of disorders that occur throughout the lifespan are provided in state-of-the-art classrooms, clinical suites, and laboratories.

Students may choose to major in either audiology or speech-language pathology.

Students who intend to be certified professionally must choose either audiology or speech-language pathology as the major area of concentration and the other area as the minor concentration.

Due to changes in entry-level degree requirement for certification in audiology from a master's to a doctoral level, the Brooklyn College program culminating in a master's degree with a major area of concentration in audiology is not accepting students at this time. Students interested in a career in audiology are advised to consider applying to the Graduate School of the City University of New York which does offer a clinical doctoral (Au.D.) program, as part of a consortium with Brooklyn and Hunter Colleges.

Matriculation requirements

Applicants must offer at least 24 credits in speech-language pathology and audiology with grade point average of 3.00 or higher. The credits must include courses as follows: acoustics of speech and hearing, anatomy and physiology of the speech and hearing mechanism, speech and language acquisition, audiology, treatment of speech and language disorders, phonetics, speech and language disorders, and statistics.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements

Forty-five to 60 credits are required for the degree.

Students must pass a written departmental comprehensive examination and must take and report their scores on the National Teacher Examination (NTE/PRA XIS) in the major area of concentration.

Information about requirements for the comprehensive examination is in the section “Academic Regulations and Procedures.”

Courses in the Department of Speech Communication Arts and Sciences offered toward the degree must be 700-level courses.

The program of study must be approved by an adviser in the student's major area of concentration.

Students must also complete requirements in either audiology or speech-language pathology, as follows:

Audiology: Speech 710X, 711X, 728.1X, U 740X, U 741X, U 742X, U 745X, 747X, 747.1X, and either 725X or 733X; and not more than 6 credits in clinical practicum, for a minimum of 350 clock hours. A maximum of 9 credits in courses in clinical practicum (729.1X, 729.2X, 729.3X, 749.1X, 749.2X, 749.3X), special problems (796X), and courses taken on a tutorial basis may be counted toward the degree. The remaining credits required for the degree must be chosen in consultation with an adviser in the major area of concentration.

Speech-language pathology: Speech 711X, 723X, 725X, 726X, 727X, 721X or 736X, 737X, 733X, and U 741X; and not more than 6 credits in clinical practicum, for a minimum of 400 clock hours. A maximum of 9 credits in courses in clinical practicum (729.1X, 729.2X, 729.3X, 749.1X, 749.3X), special problems (796X), and courses taken on a tutorial basis may be counted toward the degree. The remaining credits required for the degree must be chosen in consultation with an adviser in the major area of concentration.

Courses in speech and hearing science may be incorporated on an elective basis within the degree programs in audiology and in speech-language pathology.

Certification of clinical competency

Only students who complete the degree requirements, including the NTE examination, are eligible for certification of clinical competency by the American Speech-Language-Hearing Association.

Those students who intend to apply for New York State teacher certification as teachers of students with speech and language disabilities must present course work as described in option (b) or (c) of the matriculation requirements for the M.S. in education, teacher of students with speech and language disabilities, or must complete an additional 6 graduate credits in education courses as follows: Education 742X, 792.1X. Additionally, those students must complete Speech 725.1X and Education 726.2T and 750.4T. In order to be eligible for teacher certification, students must also pass the L.A.S.T. and the A.T.S.-W.

Advanced Certificate Program in Autism Spectrum Disorders

HEGIS code 0808; SED program code 31638

This advanced certificate interdisciplinary program is designed for individuals who have completed a bachelor's degree in speech-language pathology, special education, or a related discipline, and provides education and practical training in autism spectrum disorders. Course work and practicum experiences reflect a range of approaches to children on the spectrum, including applied behavioral analysis and developmental social-pragmatic approaches.

Program description

The program provides interdisciplinary foundational and advanced knowledge in the area of autism spectrum disorders incorporating a range of philosophical, educational, and clinical paradigms, including applied behavioral analysis, discrete trials
and natural learning paradigms, and developmental social-pragmatic approaches.

**Matriculation requirements**
Applicants must have completed an undergraduate or graduate degree in special education, speech-language pathology, or a related field. Applicants must present coursework in language acquisition and child development. Additional coursework may be required to meet any matriculation deficiency.

An applicant must have earned a baccalaureate degree with a grade point average of at least 3.00 in the undergraduate major, and a minimum overall grade point average of 3.00.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

**Advanced certificate requirements (15 credits)**
Fifteen credits of coursework completed with a grade point average of 3.00 or better are required for the advanced certificate. No more than one course with a grade below 3.00 may be offered toward the completion of the certificate requirements. Students must complete all of the following courses:

- Speech 717X/Education 751.3T: An Introduction to Autism Spectrum Disorders
- Speech 717.1X/Education 751.4T: Speech, Language, and Communication Development of Children on the Autistic Spectrum
- Education 718.33T: Special Issues in Education: Classroom and School-wide Learning Environments
- Education 750.4T: Curriculum Modifications for Teaching Students with Special Needs
- Education 750.8T: Seminar and Student Teaching: Students with Special Needs.

**CUNY Ph.D.**
The City University of New York offers a doctoral program in speech and hearing sciences. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Speech Communication Arts and Sciences Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Speech Department and the executive officer of the doctoral program.

**Courses**

**Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.**

The *Schedule of Classes* published each term lists courses offered. Not all courses are offered each term.

Courses in speech are grouped in the following areas of study:
- **Audiology:** Speech 710X, 711X, 714.1X, 716X, 725X, 729.2X, 734.1X, U740X, U741X, U742X, U744X, U745X, U746X, 747X, 748X, 749.1X, 749.2X, 749.3X, 796X, 798X.
- **Oral interpretation:** Speech 770X, 770.1X, 770.2X, 770.3X, 770.4X, 796X.
- **Public communication:** Speech 702X, 750X, 750.1X, 751X, 752X, 753X, 754X, 755X, 756X, 758X, 759X, 796X, 798.6X, 799G.
- **Speech and hearing science:** Speech 705X, 706X, 710X, 711X, 712X, 714.1X, 716X, 728X, 728.1X, 796X.

**705X Speech Science and Acoustic Phonetics**
30 hours plus conference; 3 credits
Acoustic phonetic processes in the production and perception of speech; physiological correlates. Laboratory demonstrations.
Prerequisite: a course in each of the following: phonetics, anatomy of speech mechanisms, and acoustics of speech.

**706X Behavioral Analysis of Language, Speech, and Hearing Therapy**
30 hours plus conference; 3 credits
Contemporary behavioral theory in diagnosis, clinical practice, and research. Study of individual and group behavior in educational settings. Student demonstration projects.
Prerequisite: a graduate course in clinical methods in speech-language pathology or aural rehabilitation.

**710X Psychological Acoustics**
30 hours plus conference; 3 credits
Prerequisite: a course in the anatomy and physiology of the speech and hearing mechanism and a course in acoustics in speech and hearing.

**711X Introduction to Techniques of Research in Speech-Language Pathology and Audiology**
30 hours plus conference; 3 credits
Review and critique of basic and applied research concepts and designs in speech, hearing, and language sciences through analysis of examples from the literature. Introduction to data organization and analysis. Students engage in research projects concerning developmental processes and disabilities in clinical and educational environments.
Prerequisite: a course in statistics.
714.1X Instrumentation in Speech and Hearing
30 hours lecture, 30 hours laboratory; 3 credits
Instruction in the use of instrumentation for diagnosis, therapy, and research as applied to clinical and educational environments. Projects to be selected from the student’s area of interest.
Prerequisite: a course in the acoustics of speech and hearing.

715X Therapeutic Relationship in Communication Disorders
30 hours lecture plus conference; 3 credits
Focus on an understanding of the relationships among the therapist, the client, and the family. Exploration of the contributions of social system and institutional supports as applied in clinical and educational settings.
Prerequisite or corequisite: a graduate course in diagnosis or clinical methods in speech-language pathology/audiology or permission of the deputy chairperson.

716X Computer Applications in Clinical and Educational Practice in Speech-Language Pathology and Audiology
30 hours plus conference; 3 credits
The use of personal computers to examine the hardware and software tools available for the evaluation, treatment, and clinical and instructional program management of individuals with varying disabilities; research on product applications and changing technological advances.
Prerequisite: a course in speech-language therapy methods or a course in educational methods.

717X An Introduction to Autism Spectrum Disorders
30 hours plus conference; 3 credits
Contemporary issues in autism spectrum disorders from an interdisciplinary and cross-paradigm perspective. Collaborative models for assessment and intervention within the fields of speech-language pathology, special education, and school psychology. Emphasis on partnerships with families. This course is the same as Education 751.3T.
Prerequisite: any undergraduate or graduate course in child development, language acquisition, or speech and language disorders; or permission from the deputy chairperson or program head.

717.1X Speech, Language, and Communication Development of Children on the Autistic Spectrum: Assessment and Intervention
30 hours plus conference; 3 credits
Contemporary issues in speech, language and communication in children on the autistic spectrum. Models of typical and atypical speech, language and communication acquisition. Qualitative differences and unique strengths and challenges. Assessment and intervention from different theoretical perspectives, including developmental and behavioral approaches, with emphasis on the integration of various models. Consideration of augmentative and alternative communication. (This course is the same as Education 751.4T.)
Prerequisite: Speech 717X or Education 751.3T

718X Neurodevelopmental Speech-Language Assessment and Intervention (0-3 years)
30 hours plus conference; 3 credits
Identification, evaluation, and treatment of infants and toddlers who are at risk for significant communication and feeding disorders. Consideration of normal and atypical developmental processes.
Prerequisite: an undergraduate course in normal speech and language development, and an undergraduate course in speech and language disorders.

721X Language Disorders in Children
30 hours plus conference; 3 credits
Typical and atypical language development. Etiology, characteristics, assessment, and intervention of preschool children’s language disorders; play and emergent literacy; cultural-linguistic and individual variation.
Prerequisite: a course in speech and language development.

722X The Nature of Stuttering
30 hours plus conference; 3 credits
Theories and research findings relating to the onset, development, persistence of stuttering.
Prerequisite: a course in speech and language disorders.

723X Fluency Disorders
30 hours plus conference; 3 credits
Etiology and characteristics of fluency disorders. Rationale and procedures for assessing and modifying stuttering, reducing anxiety, and enhancing fluency; application to clinical and educational settings.
Prerequisite: a course in clinical methods in speech and language disorders.

724X Speech Disorders in Cerebral Palsy
30 hours plus conference; 3 credits
Historical, etiological, neurophysiological assessment and treatment related to cerebral palsy. Emphasis on associated communication disorders and their impact on academic and social skills.
Prerequisite: a course in speech disorders and a graduate course in the anatomy and physiology of the speech mechanism.
725X Clinical Methods in Speech-Language Pathology
30 hours plus field experience; 3 credits
Theories and methods applied to the treatment of speech and language disorders in clinical and educational settings. Clinical decision making and problem solving regarding goals and procedures for intervention. Contemporary issues in speech-language intervention. Supervised participation in clinical process.
Prerequisite: a course in speech and language disorders.

725.1X Professional Practice in Educational Settings
30 hours plus field experience; 3 credits
Implementation of speech-language services in schools. Methodologies applicable to various service delivery models; educational law; strategies for effective participation in legally mandated activities in order for the speech and language impaired student to achieve prescribed academic standards. Observation of various classroom models.
Prerequisite: Speech 725X.

726X Aphasia and Related Disorders of Speech
30 hours plus conference; 3 credits
Etiology, diagnosis, treatment of adolescents and adults with language difficulties related to acquired aphasia.
Prerequisite: a course in speech and language disorders and a course in the anatomy and physiology of the speech mechanism.

727X Voice Disorders
30 hours plus conference; 3 credits
Normal phonation and resonance. Etiology, characteristics, assessment and treatment of voice disorders as applied to clinical, educational, occupational and related settings.
Prerequisite: a course in speech disorders and a course in the anatomy and physiology of the speech mechanism.

728X Advanced Anatomy, Physiology, and Neurology of the Speech Mechanism
30 hours plus conference; 3 credits
Anatomy, physiology, and neurology of the speech mechanism and related articulation, respiration, phonation, and resonance functions.
Prerequisite: an undergraduate course in the anatomy and physiology of the speech and hearing mechanism.

728.1X Advanced Anatomy, Physiology, and Neurology of the Hearing Mechanism
30 hours plus conference; 3 credits
Anatomy, physiology, and neurology of the auditory pathways.
Prerequisite: an undergraduate course in the anatomy and physiology of the speech and hearing mechanism.

729.1X, 729.2X, 729.3X Clinical Practicum in Speech-Language Pathology
45 hours; 1 credit
Supervised clinical experience in community clinics, hospitals, nursing homes, and preschool, school-age, and adolescent educational settings. Weekly seminars. Speech 729.1X and 729.2X must be completed at the Brooklyn College Speech and Hearing Center. Speech 729.3X may be taken for credit four times. Failure to earn a grade of 3.00 or better in any attempt at Speech 729.1X, 729.2X or 729.3 may result in implementation of a remediation plan, independent of the GPA, as deemed appropriate by the department. Following remediation, failure to earn a grade of B or better on a subsequent attempt at Speech 729.1X, 729.2X or 729.3X may result in restrictions on registration in the program. Continued enrollment in all clinical practicum courses is also contingent upon the student's demonstration of standards of professional conduct and demeanor as deemed appropriate by the department in conjunction with ASHA guidelines and New York State requirements.
Practicum hours will be counted toward minimum requirements for ASHA certification, teacher certification, and state licensure only in those courses in which a student earns a grade of 3.00 or better.
Prerequisite of 729.1X: a grade of 3.00 or better in Speech 733X or permission of the deputy chairperson.
Prerequisite of 729.2X: a grade of 3.00 or better in Speech 725X or permission of the deputy chairperson.
Prerequisite of 729.3X: a grade of 3.00 or better in Speech 729.2X or permission of the deputy chairperson.
Prerequisite or corequisite of 729.3X: Speech 729.1X or permission of the deputy chairperson.

730X Cleft Palate Speech
30 hours plus conference; 3 credits
Pathomorphology, clinical procedures, evaluation, and remedial management of individuals with cleft lip, cleft palate, and related disorders. Diagnostic and treatment procedures. Applications to clinical and educational settings.
Prerequisite: a course in speech disorders and a graduate course in the anatomy and physiology of the speech mechanism.

731X Motor Speech Disorders: Differential Diagnosis, Treatment and Management
30 hours plus conference; 3 credits
Etiology, characteristics, assessment, treatment and management of the dysarthrias and apraxia resulting from disorders of the upper and lower motor neurons, disorders of the cerebellar system, hypokinetic and hyperkinetic disorders of the extrapyramidal system, and impairment of
motor speech programming.
Prerequisite: a course in the anatomy and physiology of the speech mechanism.

731.1X Dysphagia: Evaluation and Management
30 hours plus conference; 3 credits
Examination of the anatomy and physiology of the oropharyngeal swallowing mechanism; normal and abnormal swallowing; interdisciplinary approaches to the evaluation management of swallowing disorders; video case presentations.
Prerequisite: Speech 728X or its equivalent or permission of the deputy chairperson.

733X Measurement and Evaluation of Speech and Language Disorders
30 hours plus conference; 3 credits
Critical analysis of measurement and evaluation procedures in diagnosing speech and language disorders. Test administration and interpretation of test results as applied to clinical and educational settings.
Prerequisite: a course in speech and language disorders.

734X Aging: Speech and Language Processes and Disorders
30 hours lecture plus conference and individual work; 3 credits
The effect of aging on speech and language processes and disorders.
Prerequisite: a course in speech and language disorders or permission of the deputy chairperson.

735X Introduction to Second Language Acquisition and English Language Learning
30 hours plus conference; 3 credits
Survey of second language acquisition theory and research as it relates to teaching English as a second language. The influence of speech and language disorders. Application of recent research findings in child first and second language acquisition, language typology, universal grammar and parameters; various models of second language acquisition, instructed second language learning, the critical period hypothesis, the social context, and other influences on second language acquisition. Data collection and analysis. Applications to educational and community settings. This course is the same as English 779.2 and Education 798X.
Prerequisite: a course in normal language acquisition or permission of the deputy chairperson.

735.1X Assessment of Second Language Learners
30 hours plus conference; 3 credits
Assessment of English language learners, including those with special needs. Emphasis on qualitative and quantitative procedures. Examination of major language instruments for all ages and proficiency levels, development of self-made language tests and informal assessment techniques, and practical reflection on linking language assessment to instruction. Consideration of linguistic, cultural, and socioeconomic background in modifying and adapting testing procedures. Applications to educational and community settings. This course is the same as Education 766.2X and English 779.1X.
Prerequisite: Either Education 760.49T and 761.49T or a course in normal development of language; or permission of the deputy chairperson.

736X Speech and Language-based Learning Disabilities
30 hours plus conference; 3 credits
Typical and atypical development of language in the school-age child and adolescent. Etiology, characteristics, assessment, and treatment of speech and language-based learning disabilities in children and adolescents. Consideration of the interdependence among language, discourse, and literacy skills.
Prerequisite: a course in speech and language acquisition or permission of the deputy chairperson.

736.1X Auditory Processing Disorders: Assessment and Treatment
30 hours plus conference; 3 credits
Neuroanatomy and physiology of the auditory pathways; behavioral and physiological assessment techniques and management procedures for school-age children and adults.
Prerequisite: Speech U741X or permission of the deputy chairperson.

737X Articulation and Phonological Disorders
30 hours plus conference; 3 credits
Prerequisite: a course in speech disorders.

738X Augmentative Communication
30 hours plus field experience; 3 credits
Etiology, diagnosis, and treatment of severely speech-impaired individuals requiring special augmentative adaptations for communication. Focus on nonelectronic systems, computerized aids, and the development of communication skills for the physically handicapped. Applications to home, clinical, and educational environments.
Prerequisite: a course in cerebral palsy or permission of the deputy chairperson.
738.1X Introduction to Assistive Technology  
30 hours plus conference; 3 credits  
Overview of the field of assistive technology. High and low technologies for communication, education, recreation, vocation, mobility, and independent living. Special input and output devices, access and proper seating and positioning. Issues in service delivery, key laws, and funding for assistive technologies. (Not open to students who completed Speech 797X, Fall 2002.)

739X Organization, Management, and Supervision of Speech and Hearing Programs  
30 hours plus conference; 3 credits  
Theory and practice of organization, management, supervision of speech-language and hearing programs in clinical and educational settings.  
Prerequisite: a graduate course in speech pathology and a graduate course in audiology; or permission of the deputy chairperson.

U740X Communication Skills for Hearing-impaired Adults  
30 hours plus conference; 3 credits  
A comprehensive approach to the rehabilitation of adults with hearing impairments. Methods include cochlear implants and other sensory aids.  
Prerequisite: a course in audiology.

U741X Introductory Audiology  
30 hours plus conference; 3 credits  
Introduction to audiologic test procedures used in differential diagnosis of peripheral hearing impairments. Overview of clinical audiology procedures. Calibration of equipment.  
Prerequisite: an undergraduate course in audiology.

U742X Hearing Aids  
30 hours plus conference; 3 credits  
Technical and clinical aspects of hearing aids and hearing aid selection and evaluation.  
Prerequisite: Speech U740X and U741X; or the equivalent of the courses.

U744X Community and Industrial Programs in Audiology  
30 hours plus conference; 3 credits  
Prerequisite: Speech U741X or the equivalent.

U745X Pediatric Audiology  
30 hours plus conference; 3 credits  
Identification, evaluation, and amplification for infants and children with hearing impairments.  
Prerequisite: Speech U741X or the equivalent.

U746X Normal and Abnormal Hearing Mechanisms: Medical Audiology  
30 hours plus conference; 3 credits  
Embryology, anatomy, physiology, pathology of hearing mechanisms. Medical and audiological aspects of hearing disorders.  
Prerequisite: a course in the anatomy and physiology of hearing and a course in audiology.

747X Advanced Diagnostic Audiology I  
30 hours plus conference; 3 credits  
Advanced differential diagnosis of auditory problems: advanced acoustic admittance, power reflectance, otoacoustic emissions, and electronystagmography.  
Prerequisite: Speech U741X and 749.1X.

747.1X Advanced Diagnostic Audiology II  
30 hours plus conference; 3 credits  
Advanced diagnosis of auditory problems: auditory evoked potentials including electrocochleography, brain stem, middle latency response, late auditory response, and organic and nonorganic central auditory disorders.  
Prerequisite: Speech 741X and 749.1X.

748X Language and Speech of Hearing-impaired Children  
30 hours plus conference; 3 credits  
Development, diagnosis, and treatment of speech and language in children with hearing impairments. Applications to clinical and educational settings.

749.1X, 749.2X, 749.3X Clinical Practicum and Seminar in Audiology  
45 hours; 1 credit  
Supervised clinical experience. Weekly seminars. Speech 749.1X must be completed at the Brooklyn College Speech and Hearing Center. Speech 749.3X may be taken for credit four times. Failure to earn a grade of 3.00 or better in any attempt at Speech 749.1X, 749.2X or 749.3X may result in implementation of a remediation plan, independent of the GPA, as deemed appropriate by the department. Following remediation, failure to earn a grade of 3.00 or better on a subsequent attempt at Speech 749.1X, 749.2X or 749.3X may result in restrictions on registration in the program. Continued enrollment in all clinical practicum courses is also contingent upon the student's demonstration of standards of professional conduct and demeanor as deemed appropriate by the department in conjunction with ASHA guidelines and regulations.
New York State requirements. (Speech 749.1X is not open to students who have completed Speech 749X.)

749.1X Diagnostics
749.2X Diagnostics and/or Rehabilitation
749.3X Advanced Diagnostics and/or Rehabilitation

Practicum hours will be counted toward minimum requirements for ASHA certification and state licensure only in those courses in which a student earns a grade of 3.00 or better.

Prerequisite of 749.1X: a grade of 3.00 or better in Speech U741X or permission of the deputy chairperson.
Prerequisite of 749.2X: a grade of 3.00 or better in Speech U740X or permission of the deputy chairperson.
Prerequisite of 749.3X: a grade of 3.00 or better in Speech 749.1X or permission of the deputy chairperson.

750.1X Speech Communication and Group Dynamics
45 hours; 3 credits
Influence of group dynamics on speech communication effectiveness. Function of speech in formation of social groups. Current research in speech communication theories and group structure analysis.
Prerequisite: permission of the deputy chairperson.

756X Public Address
45 hours; 3 credits
Historical and rhetorical analysis of representative American public speakers.
Prerequisite: permission of the deputy chairperson.

758X Research in Rhetoric and Public Address
45 hours; 3 credits
Individual and group study of historical, descriptive, experimental research methods. Bibliographical resources and professional writing in rhetoric and public address.
Prerequisite: permission of the deputy chairperson.

759X Speech Criticism
45 hours; 3 credits
Comparative study of various methods of rhetorical criticism: traditional (neo-Aristotelian and historical); experiential (eclectic, sociocultural-psychological); grammatical-semantic; dramatic; others.
Prerequisite: permission of the deputy chairperson.

760X Conflict Management: A Business Communication Perspective
45 hours; 3 credits
Current research findings, theories, and practices in conflict settings with respect to oral communication. Conflict resolution, negotiation, and mediation skills applied to the business environment. Simulated case studies and individual evaluations. Experience in developing the necessary conflict management skills.
Prerequisite: Speech 19.1; and Speech 23 or 33 or permission of the chairperson.

796X Special Problems
45 hours; 3 credits
Directed study supervised by a faculty member. With prior written permission of the deputy chairperson, this course may be repeated once for credit.
Prerequisite: permission of the deputy chairperson.

797X Proseminar in Speech-Language Pathology
45 hours; 3 credits
Intensive study of technical and theoretical problems. Independent laboratory or library research. Detailed reports.
Prerequisite: a graduate course in speech and language disorders.

798X Proseminar in Audiology
45 hours; 3 credits
Prerequisite: Speech U740X and U741X; or the equivalent of the courses.

798.6X Seminar in Rhetoric and Public Address
45 hours; 3 credits
Examination of the types of rhetorical and oratorical research. Independent research and reports. Students may repeat this course twice for credit.
Prerequisite: permission of the deputy chairperson.
799G Thesis Research
Hours to be arranged; no credit
Research for master's thesis supervised by a faculty member.
Students register for this course only once.
Prerequisite: permission of the deputy chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

702X Current Trends and Problems of Speech
712X The Neuropathology of Speech and Language Processes
732X Speech and Language Problems of the Mentally Retarded
751X Studies in Argumentation and Debate
753X Rhetorical Theory: Classical and Medieval Perspective
770X Oral Interpretation
770.1X Studies in Oral Interpretation
770.2X The Oral Tradition
770.3X Contemporary Theories of Oral Interpretation
770.4X Teaching the Oral Interpretation of Literature

Television and Radio

Office: 304 Whitehead Hall
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Chairperson: George R. Rodman
Deputy Chairperson, Division of Graduate Studies: Stuart MacLelland
Professors: MacLelland, Rodman;
Associate Professors: Fry, Jannone, Lewis, Meppen, Patkanian, Sosa, Wasser;
Assistant Professor: Hashmi.

M.S. in television and radio
HEGIS code 0603; SED program code 77735

This program is a research and theory based program that emphasizes the connection between theory and practice.
The curriculum examines the impact of electronic media from social, political, and economic perspectives. Students gain in-depth knowledge of the television and radio industry as well as the key critical and theoretical perspectives on the media.
The program prepares students to apply their education in a variety of professional positions or to continue their education by enrolling in a doctoral program.

Only six of the thirty credits necessary to fulfill degree requirements are assigned by the department. The other eight courses are drawn from a pool of electives so that students may select a critical analysis, broadcast management, or programming concentration.

Matriculation requirements
Applicants must offer at least 12 credits, with a grade point average of approximately B, in courses in television and radio.
Other courses may be substituted with permission of the department.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Applicants must submit the Graduate Record Examination Aptitude Test score or the Miller Analogy Test Score.

International applicants are required to pass the Test of English as a Foreign Language (TOEFL) with a score of at least 580 before being considered for admission.

Degree requirements
Thirty credits are required for the degree. Other than required courses, credits required for the degree must be in courses chosen in consultation with the graduate deputy chairperson.
The program of study must be approved by the department.
Courses in the Television and Radio Department offered toward the degree must be 700-level courses.

Students must complete 30 credits, at least 24 credits of which must be taken in the Television and Radio Department. Six credits must be taken in required courses offered by the department; the remaining 24 credits are elective, and must be approved in consultation with the deputy chairperson.
Every student shall be required to successfully complete the department's graduate core, which consists of Television and Radio 701X, to be taken in the first semester, and 710X, to be taken in the student's final semester of course work.

The M.S. degree emphasizes two areas of study: broadcast management and critical/cultural media studies. When choosing credits, students are encouraged to balance their course of study in both areas for a well-rounded degree program.

Courses in the department that follow the broadcast management emphasis include: Television and Radio 722X, 724X, 725X, 726X, 727X, 794.5X.

Courses in the department that follow the critical/cultural media studies emphasis include: Television and Radio 713X, 714X, 715X, 728X.

M.S. students may also take the following two television production courses: Television and Radio 730X and 740G. All other television production courses are closed to M.S. students. Television and Radio 769X and 796X will be available each semester. Students may take each of these courses only once during their program of study.

Up to 6 credits may be taken outside the department with the approval of the graduate deputy chairperson.

Students must pass a written comprehensive examination. The examination will consist of four questions in areas in which the student has taken courses during his/her course of study. Information about the comprehensive examination is in the section “Academic Regulations and Procedures.”

M.F.A. in television production
HEGIS code 0603; SED program code 84002

The M.F.A. in television production prepares students for professional media careers as writers, producers, directors, and editors. This production-based curriculum exposes students to many program genres including, but not limited to, documentary, drama, news, sports, art and cultural, experimental, and demonstration. Students develop content and produce and direct both single and multiple camera, live switched productions. The M.F.A. program is built on a foundation of production aesthetics, critical analysis, and media literacy. Students are taught how to create programs that inform, entertain, and instruct audiences by interpreting content through a social, political and economic perspective.

Our graduates work as media professionals in broadcast, cable, and institutional production and post-production facilities. Many of our graduates continue their careers as faculty members at the college and university level.

Matriculation requirements

Applicants must offer a minimum of 24 credits in media-related courses. Courses should include social effects of communication, organization of broadcast media, program planning, production, and direction. Other courses may be substituted with permission of the department.

All M.F.A. candidates serve as interns in the Television Center, for which they receive stipends. Each student must submit an intern application, which is available from the department, directly to the deputy chairperson. A biographical statement that indicates experience, interest, and professional objectives must accompany the application. The department intern committee may require an interview of applicants. Applicants must submit the Graduate Record Examination Aptitude Test score or the Miller Analogy Test score.

International applicants are required to pass the Test of English as a Foreign Language (TOEFL) with a score of at least 580 before being considered for admission.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements

Forty-nine credits are required for the degree.

At least 40 credits must be taken in the Television and Radio Department. Of the 49 credits, 34 credits must be taken in departmental required courses; the remaining 15 credits are elective, and must be approved in consultation with the director of the M.F.A. program and the graduate deputy chairperson.

Every M.F.A. student shall be required to successfully complete the department's graduate core, which consists of Television and Radio 701X, to be taken in the first semester, and 710X, to be taken in the student's final semester of course work.

The Television Production specialization for M.F.A. students encompasses the following courses: Television and Radio 732X, 752X, 740G, 781G, 782G, 783G, 784G, 785.1G, 785.2G, 785.3G, and 785.4G, for a total of 28 credits. The remaining 15 credits are elective. No more than 9 credits of these may be taken in departments outside the Television and Radio Department.

M.F.A. students may offer 3 credits of a Television Production Externship (Television and Radio 769X) toward the M.F.A. degree. This externship provides on-the-job production experience under the supervision of a selected television professional.

Creative work in the program must culminate in submission of either a finished television program or other creative audiovisual material (e.g., a CD-ROM or a fully developed website). The specific parameters of the student's creative thesis project must be formally approved by the director of the M.F.A. program in consultation with the student's faculty adviser. This audiovisual material shall meet the professional production and content standards appropriate for granting a terminal academic degree. The project will be accompanied by a production book acceptable to the department.

Students must pass a three-hour written comprehensive examination in their final semester. The examination will consist of two questions in the production/writing/aesthetics area.

Courses in the Television and Radio Department offered toward a degree must be 700-level courses.
Honor Society

Alpha Epsilon Rho is a national honor society in radio and television. Members are selected from both undergraduate and graduate students on the basis of achievement.

Courses

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

Course for nonmajors

614X Mass Media and Education
45 hours; 3 credits
Theory and practice of instruction using televised materials. Commercial and noncommercial programming for elementary, secondary, higher, and adult education. Utilization and evaluation of materials. (Not open to students who have completed Television and Radio 689X.)

Broadcast concepts

701X Introduction to the Study of Television and Radio
45 hours; 3 credits
Introduction to the literature of mass media scholarship, methods of inquiry, bibliographic skills, and topical issues in the field. To be taken in student's first semester.
Prerequisite: permission of the deputy chairperson.

710X Television and Radio Seminar
45 hours; 3 credits
Current topics in electronic media. Emphasizes both entertainment industry and critical/cultural perspective. To be taken in student's final semester.
Prerequisite: Television and Radio 701X and permission of the deputy chairperson.

712X Mass Media in Society
45 hours; 3 credits
Examination of the relationship between mass media and society within the contexts of social and cultural theory.
Prerequisite or corequisite: Television and Radio 701X.

713X From Telegraph to Internet: Historical and Legal Development of American Electronic Mass Communication
45 hours lecture; 3 credits
In-depth industrial and cultural historical overview of the development of electronic mass communication. Historical and legal approaches and methods.
Prerequisite or corequisite: Television and Radio 701X; or permission of the deputy chairperson.

714X Critical Analysis of Television and Radio
45 hours; 3 credits
Textual and analytical approaches to electronic media. Survey of the most significant Marxist, structuralist, semiotic and formalist readings of media over the past one hundred years.
Prerequisite or corequisite: Television and Radio 701X; or permission of the deputy chairperson.

715X Media Reception: Viewing Processes and Practices
45 hours; 3 credits
Introduction to sociological, ethnographic, psychoanalytic, cognitive, and critical theories used to understand media audiences and processes of reception. Historical development of the various approaches; individual viewer response; construction of the mass audience and subcultures; fan production.
Prerequisite or corequisite: Television and Radio 701X; or permission of the deputy chairperson.

728X World Television
45 hours; 3 credits
The globalization of television and radio; implications of transnational satellite communication; problems and opportunities in international coproduction; changing patterns in distribution to a global market. Analysis of program genres and styles in the context of language, culture, and developmental differences. (Not open to students who have completed Television and Radio 796X, "Special Problems in World Television.")
Prerequisite: Television and Radio 701X; or permission of the deputy chairperson.

797X Special Topic in Mass Media
45 hours; 3 credits
Topics vary from term to term. Students may take this course twice but may not repeat a topic.
Prerequisite: Television and Radio 701X.

Planning and management

722X Seminar in Television and Radio Program Development and Audience Analysis
45 hours; 3 credits
Process of television and radio program development. Conceiving and pitching a program idea; understanding genre cycles; determining windows of distribution; methods of measuring audiences; types of data collection and reporting; use of demographic data to make programming and management decisions.
Prerequisite or corequisite: Television and Radio 701X; or permission of the deputy chairperson.
725X Television and Radio Management Theory and Practice
45 hours; 3 credits
Theories of management of electronic mass media communication; industry structure, management styles and practices; finance and budgeting systems; human resource management; negotiation strategies. Prerequisite: Television and Radio 701X.

726X Seminar in Television and Radio Management
45 hours; 3 credits
Principles of management. Problems and prevailing practices in television and radio. Fall term. Prerequisite or corequisite: Television and Radio 701X and 725X; or 725X and permission of the deputy chairperson.

727X Television and Radio Marketing and Promotion
45 hours; 3 credits
Principles of marketing and promotion. Developing marketing and promotion strategies. Implementing campaigns. Evaluating their effectiveness in attracting audiences and building audience share in increasingly competitive electronic mass communication industries. This course is the same as Business 703X. Prerequisite or corequisite: Television and Radio 701X; or permission of the deputy chairperson.

730X Television and Radio Production: Applied Aesthetics
3 hours; 3 credits
Analysis of the various audiovisual aesthetic “fields”—light, color, two-dimensional and three-dimensional space, time, motion/pace/rhythm, sound, narrative storytelling devices, and character types as cultural archetypes. Historical development of humorous and dramatic expression in television and radio. Prerequisite or corequisite: Television and Radio 701X.

732X Problems in Multiple Camera Television Production
30 hours lecture, 30 hours laboratory; 3 credits
Integrating various elements into a program. Utilization of technical facilities. Relationship between purpose, script, production elements, producer, director, talent as a team. Problems of producing and directing various program formats including panel discussion, news, drama, art and cultural, and other studio-based program genres. Prerequisite: matriculation in the M.F.A. program.

736X Television Program Directing
30 hours lecture, 30 hours laboratory; 3 credits
Problems of the television program director in regard to casting, script preparation, personnel organization, production planning, rehearsals and performance, effective utilization of the unique characteristics of television. Lecture, demonstration, experimental studio production of various types of programs. Prerequisite: Television and Radio 732X for M.F.A. in Television Production candidates; PIMA 701G for advanced certificate candidates in the Performance and Interactive Media Arts program.

740G The Television Script: Structuring and Writing
45 hours; 3 credits
Develop skills in writing documentary, creative, and other scripts for television. Adapting material from other media. Various script formats. Developing and pitching ideas. Writing treatments. Creating storyboards. Completion of two scripts for different programs. Prerequisite: matriculation for the M.F.A. degree.

749.2X Study Abroad India: Documentary Production and Cultural Studies
15 hours lecture, 60 hours lab; 3 credits
A 21-day course that combines lectures, sightseeing, and documentary production work. Prerequisite: permission of the instructor.

752X Single Camera Production for Television
30 hours lecture, 30 hours laboratory; 3 credits
Problems of the television producer/director in using film or videotape. Problems of budgeting, casting, and scripting out-of-studio film and videotape productions. Basic videotape editing. Prerequisite: Television and Radio 732X or 786X.

769X Fieldwork in Electronic Media
200 hours of fieldwork plus conference hours to be arranged; 3 credits
Placement in a professional electronic media organization for intensive supervised assignment. Joint supervision by a faculty member and member of the organization. Regular conferences with faculty supervisor. Preparation of written report on fieldwork experience. Prerequisite: matriculation in the M.S. or M.F.A. program and permission of the deputy chairperson.

772X Broadcast Journalism
45 hours; 3 credits
Analysis and evaluation of broadcast news, editorials, commentaries. Examination of network and local news operations. Relationship between print and electronic news reporting considered in terms of their effect on the audience. Historical study of the concepts of free speech, investigative reporting, and the right of citizens’ access to government information. Fall term. Prerequisite or corequisite: Television and Radio 701X.
**776X The Television and Radio Documentary**  
45 hours; 3 credits  
Development of radio and television programs to inform and persuade audiences. Comparison of the effect on audiences of different methods of presentation. Future trends in television and radio for social purposes. Spring term.  
Prerequisite or corequisite: Television and Radio 701X or 786.5X or permission of the deputy chairperson.

### Internship courses

The following courses may be applied only to the M.F.A. degree program in television and radio.

**781G Video Post-Production Theory and Practice**  
15 hours lecture, 105 hours laboratory; 4 credits  
Study and application of television post-production theory and technique. Students will receive instruction on digital editing systems and assemble short programs from prerecorded footage and originally produced audiovisual sources. Emphasis is placed on the aesthetics of content creation and applied technique.  
Prerequisite: matriculation for the M.F.A. degree in television production.

**782G Advanced Problems in Studio and Field Video Production**  
15 hours lecture, 75 hours laboratory; 3 credits  
Study and application of production theory and technique. Students receive training in creative content development, electronic media aesthetics, and production management. All aspects of pre-production, production, and post-production are considered. Students will write, produce, and edit short form video programs in both studio and location production environments.  
Prerequisite: Television and Radio 781G.

**783G Seminar in Television Program Production I**  
15 hours lecture, 90 hours laboratory; 4 credits  
Independent research, development, direction, and production of a television program suitable for broadcast. Rotation of advanced crew assignments for in-studio and remote location productions. Development of a suitable production report. Review and approval of work in progress by faculty member.  
Prerequisite: Television and Radio 782G.

**784G Seminar in Television Program Production II**  
15 hours lecture, 90 hours laboratory; 4 credits  
Independent research, development, direction and production of a television program suitable for broadcast. Rotation of advanced crew assignments for in-studio and remote location productions. Development of a suitable production report. Review and approval of work in progress by faculty member.  
Prerequisite: Television and Radio 783G.

**785.1G, 785.2G, 785.3G, 785.4G Thesis Development**  
Minimum of 45 hours fieldwork each term; 1 credit each term  
Faculty adviser supervised work on thesis production.  
Prerequisite: matriculation for the M.F.A. degree.

### Research courses

**792.5X Research Practicum in Television and Radio**  
45 hours fieldwork; 1 credit  
Directed research project under supervision of a faculty member. Weekly meetings to evaluate and monitor progress. With the prior permission of the deputy chairperson, this course may be taken three times.  
Prerequisite: Television and Radio 701X and the permission of the deputy chairperson.

**794.5X Television and Radio Audience Research**  
45 hours; 3 credits  
Survey of methods of measuring audiences for radio and television programs. Types of data collection and reporting. Use of demographic data to make programming and management decisions. Original research and reports.  
Prerequisite: Television and Radio 701X.

**796X Special Problems**  
45 hours; 3 credits  
Directed study supervised by a faculty member. With prior written permission of the deputy chairperson, this course may be repeated once for credit.  
Prerequisite: permission of the deputy chairperson.

The following courses are inactive and will be offered only if there is sufficient demand:

- **711X Broadcasting and the Development of Third World Countries**
- **716X International Broadcasting**
- **737X Broadcast News Laboratory**
- **738X Urban Telecommunications Practicum**
- **754X Advanced Single Camera Production**
- **771X Broadcast Newswriting, Editing, and Management**
- **773X The Broadcast Interview**
- **777X Problems of Reporting**
- **792X Research Methods in Television and Radio**
The Department of Theater offers a master of fine arts degree in theater, theater history and criticism. This one-year 30-credit program requires a minimum of 21 credits to be completed in the Theater Department with the remaining credits chosen in consultation with the program head. The program is an important step toward a doctorate in theater.

Matriculation requirements
Applicants must offer at least 18 credits in theater courses including at least one course in each of the following: dramatic literature, theater history, and theater production.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Thirty credits are required for the degree.

At least 21 credits must be completed in courses in the Theater Department. Theater 799G (no credit) is required. The remaining credits required for the degree must be in courses chosen in consultation with the chairperson.

Students must submit a thesis acceptable to the department. Information about requirements for the thesis is in the section “Academic Regulations and Procedures.”

Courses in the Theater Department offered toward the degree must be 700-level courses.

The program of study must be approved in advance by the chairperson.

M.F.A. in theater
HEGIS code 1007; SED program code 76211

The Department of Theater offers a master of fine arts degree in theater with a concentration in one of the following areas: performing arts management, acting, directing, dramaturgy, or design. The two-year, 60-credit program prepares students for leadership and professional careers in each area of concentration through a combination of practical and theoretical courses as well as through internships with major institutions in the New York metropolitan area.

Matriculation requirements
Applicants must offer at least 18-21 credits in acting courses. Consideration will also be given to applicants who do not meet course requirements but have equivalent experience or unusual talent in the chosen concentration. Such applicants should consult the head of concentration for an audition/interview appointment once their application has been submitted.

Design and technical production: Applicants must offer at least 18 credits in theater courses including courses in directing, design, and theater production, or in such design-related courses as architecture, art history, and painting. Applicants must be interviewed by the Theater Department or submit a portfolio directly to the Theater Department at the time of application.

Directing: Applicants must offer at least 18 credits in theater courses including courses in acting, directing, dramatic literature, theater history, and stagecraft. A production book for an actual or proposed production must be submitted directly to the Theater Department at the time of application. If possible, applicants should arrange to be interviewed by the Theater Department.

Dramaturgy: Applicants must offer at least 18 credits or the equivalent in theater and/or dramatic literature courses, submit at least three samples of formal essays or papers, and submit a statement of professional goals. If possible, applicants should arrange to be interviewed by the Theater Department.

Performing arts management: Applicants must offer at least 18-21 credits or the equivalent in courses one of the following: dance, fine arts, music, or theater. Applicants must submit an essay on professional goals. Applicants must be interviewed by the Theater Department.

Consideration is also given to applicants who do not meet course requirements but have equivalent experience or unusual talent in the chosen concentration. Such applicants should consult the head of concentration for an audition or interview appointment. A request for an audition or interview appointment may be made by letter or telephone to the head of the relevant concentration.

General matriculation and admission requirements of the Division of Graduate Studies are in the section “Admission.”

Degree requirements
Sixty credits are required for the degree.

Students must also submit a thesis based on a thesis project and/or production acceptable to the department. Information about requirements for the thesis is in the section “Academic Regulations and Procedures.”

Prior to the above, all students must undergo a prethesis evaluation (consisting of a work-in-progress shown to the faculty, an academic progress review by faculty or both) by the time they complete 24 credits. If a student’s progress is not deemed satisfactory by the head of the relevant concentration, the student will be denied the approval of a thesis production or project until the deficiencies noted in written form to the student have been corrected.
Students must complete requirements in one concentration as follows. No student may exceed a total of 12 credits in practicum and/or externship courses. The remaining credits required for the degree must be in courses chosen in consultation with the chairperson.

Acting: Theater 721.3X, 722.3X, 723.3X, 724.3X, 725.3X, 726.3X, 727.3X, 728.3X, 731.3X, 732.3X, 733.3X, 734.3X, 735.3X, 737.3X, and 778X. Acting candidates are required to audition for all departmental productions and must accept roles as cast. Before taking Theater 778X, students must perform in a pre-thesis role approved by the head of concentration, and may serve as a production running crew supervisor.

Design and technical production: Theater U751X, U752X, 771.4X, 771.5X, 771.6X, 771.7X, 772.4X, 777.09X or 777.9X, 777.10X, 777.11X, 778X, 786X; and a minimum of three additional courses in design and technical production. Before taking Theater 778X, students must complete designs for actual productions at the experimental or thesis production level and must complete a design for a major production in fulfillment of the practicum course requirements.

Directing: Theater U703X or U704X, 720.3X, U751X and U752X, 771.5X or 771.6X or 771.7X, 773.9X, 775.2X, 776.2X, 777.2X, 777.09X or 777.9X or 778.9X, 777.10X or 778.10X, 777.11X, 778X, and 778.2X. Before taking Theater 778X, students must participate in such production capacities as actor, stage manager, technician, and/or assistant director in fulfillment of the practicum course requirements.

Dramaturgy: Theater U703X, U704X, U706X, U707X, U708X, U710X, U751X, U752X, U753X, 773.1X, 773.9X, 777.9X or 777.09X or 778.9X or 778.09X or 778.9X, 777.10X, 778X, 786X, 788.09X, 788.10X, 788.11X, and 788.12X. Students must spend two semesters as dramaturgy/literary management interns in fulfillment of the practicum course requirements; these assignments will be in association with a departmental production or off-campus production or publication approved by the adviser. The thesis may be a production protocol, or a collection of critical articles, or a historical research study.

Performing arts management: Theater U751X, U752X, 773.9X, 774.9X, 775.9X, 776.8X, 776.9X, 778.09X or 778.9X, 778.10X, 778.11X, and Economics 701X. With a few exceptions, students must also take Theater 789X, which requires the satisfactory completion of a ten- to fifteen-week residency with a professional arts organization or agency approved by the chairperson and a thesis report based on the residency experience. Course substitutions for the preceding requirements may be approved by the chairperson based on individual student needs and qualifications. With the permission of the chairpersons of the Departments of Theater and of Economics, a student with an adequate background in accounting will be excused from taking Economics 701X.

Courses in the Theater Department offered toward the degree must be 700-level courses.

The program of study must be approved in advance by the head of the relevant concentration.

CUNY Ph.D.

The City University of New York offers a doctoral program in theater. General information about CUNY Ph.D. programs is in the chapter “Support for Academic Success in Graduate School.” Theater Department courses may be credited toward the CUNY doctoral degree with permission of the executive officer of the doctoral program. For information, students should consult the deputy chairperson of the Theater Department and the executive officer of the doctoral program.

Courses

Unless a prerequisite is specific, students may apply graduate or undergraduate courses toward fulfillment of that prerequisite.

The Schedule of Classes published each term lists courses offered. Not all courses are offered each term.

701X Theater Research and Bibliography
30 hours; 3 credits
Introduction to theater research, bibliography, critical methodology. Fall term.

703X Development of Dramatic Structure I
30 hours plus conference; 3 credits
Analysis of dramatic structure in representative major plays of Greek, Roman, medieval, Renaissance playwrights. Fall term.

704X Development of Dramatic Structure II
30 hours plus conference; 3 credits
Analysis of dramatic structure in representative major plays of eighteenth-century to twentieth-century playwrights. Spring term.

706X History of Theatrical Theory and Criticism I
30 hours plus conference; 3 credits
A survey of major theorists and critics concerned with drama and theater, both text and production, from Plato and Aristotle through the German philosophers and critics of the mid-nineteenth century. (Not open to students who have completed Theater U702X.)

707X History of Theatrical Theory and Criticism II
30 hours plus conference; 3 credits
A survey of major theorists and critics concerned with drama and theater, both text and production, from the mid-nineteenth century to the present, including melodrama, farce, theories of dramaturgy, expressionism, epic theater, political theater, and post-structuralism. (Not open to students who have completed Theater U702X.)

708X Introduction to Dramaturgy
30 hours plus conference; 3 credits
Introduction to the history and practice of dramaturgy in Europe and the United States since the eighteenth century.
Development of basic dramaturgical skills: selection and analysis of classics and new plays, production research, principles of cutting, collaborative techniques, institutional dramaturgy.

**U709X Problems in the Translation of Dramatic Texts**

30 hours plus conference; 3 credits

Introduction to various theories of translation from John Dryden to Jacques Derrida. Creation of English translation of a stage or screen play. Seminar and writing workshop format.

Prerequisite: Reading knowledge of a foreign language.

**U710X Models of Collaboration**

2 hours and conference; 3 credits

Continuation of Theatre U708X. Further explorations into the nature and practice of dramaturgy. Special attention to the process of collaboration. Study of collaborations by artists of significance. Development of individual models through the collective dramaturgy of the class and through teams of artists undertaking two major projects. Development of such fundamental dramaturgical expertise as storytelling and interpretation within a clearly formulated aesthetic framework.

Prerequisite: Theater U708X and/or approval of instructor or program head.

**720.3X Improvisation for the Actor I**

60 hours; 3 credits

Training in improvisation techniques for all performance situations based on the work of Keith Johnstone, Augusto Boal, Viola Spolin, and others. Fall term.

Prerequisite: Matriculation for the M.F.A. in theater with a concentration in acting or audition.

**721.3X Acting I: Acting with Imagination**

60 hours; 3 credits

Development of self-awareness, imagination, space, and environment. Working with improvisational exercises, actors will focus on freeing the imagination, spontaneity, and the “art of doing” or actions/objectives and obstacles. Students will explore the journey of the play script, develop techniques and tools that facilitate script analysis, define character, and analyze the relation of each character to the spine of the play. Fall term.

Prerequisite: Matriculation for the M.F.A. in theater with a concentration in acting or audition.

**722.3X Acting II: The Actor and the Contemporary Play**

60 hours; 3 credits

Acting techniques necessary to bring the text to life through an exploration of contemporary and modern scenes. This course introduces three interrelated components: recognition of events that tell the story; exploration and application of kinesthetic and metaphorical actions that enhance the events of the story; and definition of character through exploration of motives, manners, and behaviors. Spring Term

Prerequisite: Theater 721.3X or permission of the head of the M.F.A. acting concentration.

**723.3X Acting III: The Actor and the Classic Play I**

60 hours; 3 credits

Application of the basic principles of acting studied in Theater 721.3X and Theater 722.3.X to the work and world of Shakespeare. Advanced scene studies from Shakespeare’s comic and tragic plays, focusing on the relationships among thought, language, and action. Fall term.

Prerequisite: Theater 722.3X or permission of the head of the M.F.A. acting concentration.

**724.3X Acting IV: The Actor and the Play**

60 hours; 3 credits

Examination of the tools and techniques an actor requires to work within different modes of theater. Through advanced scene studies from a variety of plays providing contrasting language and periods, actors will apply their skills to tell the story. Spring term.

Prerequisite: Theater 723.3X or permission of the head of the M.F.A. acting concentration.

**725.3X Movement for the Actor I**

60 hours; 3 credits

Study of the Alexander Technique and its use as a tool for the actor. Application of experiential anatomy to support course material and provide an informed foundation for movement exercises. Sensory awareness, flexibility, and stretching will be developed to allow for greater strength, balance, and physical ease. Exploration of the dynamic variables of movement—time, space, weight, and energy—through improvisational exercises and choreographed phrases. Fall term.

Prerequisite: Matriculation for the M.F.A. in theater with a concentration in acting or audition.

**726.3X Movement for the Actor II**

60 hours; 3 credits

Study of the relationship of breath, voice, and movement. Development of the ability to recognize and change one's psycho-physical dynamic in any given moment through further study of the Alexander Technique and its application to movement, as well as the spoken word. Continued development of the actor’s movement potential through improvisation and choreographed explorations. This course builds directly on Theater 725.3X. Spring term.

Prerequisites: Theater 725.3X or permission of the head of the M.F.A. acting concentration.
727.3X Voice Production for the Actor I
60 hours; 3 credits
Training of the actor’s speaking voice. Heightening of the actor’s awareness of the integrated connection between body, voice, and emotions. Focus on the development of a responsive and powerful instrument that directly reveals, rather than describes, emotions and thoughts. Understanding and practice of breathing for voice production; awareness of physical holding patterns that inhibit a free, open, and dynamically expressive vocal instrument; practice in releasing such patterns. Fall term.
Prerequisite: Matriculation for the M.F.A. in theater with a concentration in acting or audition.

728.3X Voice Production for the Actor II: Sound and Sense
60 hours; 3 credits
Review of vocal warm-up introduced in Theater 727.3X; continuation of focus on awareness of the connection among the body, voice, and spoken word. Study of contrasting poetic texts from a variety of periods to understand the relationship between the sound(s) of the word and the texture, time, space, rhythm, meter, and meaning/sense of words and thoughts. Spring term.
Prerequisites: Theater 727.3X or permission of the head of the acting concentration.

729.3X Improvisation for the Actor II
60 hours; 3 credits
Continued advanced work in improvisational techniques and application to specific performance situations. Introduction to neutral and character mask work. Spring term.
Prerequisite: Theater 720.3X or permission of the head of the M.F.A. acting concentration.

731.3X Acting for the Camera
60 hours; 3 credits
Application of advanced acting skills to the particular techniques required when acting in television and on film. Spring term.
Prerequisite: Theater 721.3X and Theater 722.3X, or permission of the head of the M.F.A. acting concentration.

732.3X Voice Production for the Actor III: Heightened Text
60 hours; 3 credits
Advanced vocal techniques for integrating voice and body to meet the demands of speaking Shakespeare's heightened language. Attention to the shapes, structures, or “givens” in the text; how to recognize or “read” them as clues that inspire specific acting choices, such as textures of sounds, rhythm, meter, thought structure, the language’s physicality, imagery, antithesis, word play, irony, and puns. Fall term.
Prerequisite: Theater 728.3X or permission of the head of the M.F.A. acting concentration.

733.3X Voice Production for the Actor IV
60 hours; 3 credits
Advanced vocal techniques that integrate all voice and movement training from the previous three semesters more fully into the acting process: awareness of the body in space, connection with emotional impulses, intentions, and physical actions; skilled use of the dynamically free and expressive voice as a powerful and responsive instrument to reveal, rather than describe, emotions and thoughts. Spring term.
Prerequisites: Theater 732.3X; or permission of the head of the M.F.A. acting concentration.

734.3X Diction and Dialect for the Actor I
60 hours; 3 credits
Development of a flexible speech instrument for the actor. Focus on muscle and sensory awareness through understanding of the anatomy/physiology of the articulators, the physical nature and quality of good American speech sounds, the production of vowel and consonant sounds, and the recognition of speech as a physical process. Study of the International Phonetic Alphabet as applied to physical practice. Fall term.
Prerequisite: matriculation for the M.F.A. in theater with a concentration in acting or audition.

735.3X Diction and Dialect for the Actor II
60 hours; 3 credits
Development of commitment to the word—fulfilling the demands of the text with skill and sensitivity; practice and application of good American speech sounds and the International Phonetic Alphabet to the “heightened text” of poetry, classical drama, and dramatic monologues. Spring term.
Prerequisite: Theater 734.3X or permission of the head of the M.F.A. acting concentration.

736.3X Movement for the Actor III
60 hours; 3 credits
Application of advanced movement techniques and exercises to further expand the actor’s awareness of balancing of physical flexibility and strength in the body. Emphasis is on physical choices that inform character development, period style, and the physical environment of the play.
Prerequisite: Theater 725.3X and Theater 726.3X; or permission of the head of concentration.

737.3X Audition Techniques and the Business of Acting
60 hours; 3 credits
The advanced study of the interplay between the practical business aspects of the profession, auditions, and marketing strategies. Focus will be on: the selection and preparation of material suitable to the student’s individual strengths; the exploration of the range of acting skills necessary for inventive performance in cold readings; how to gather information on unions, theaters, producing organizations, and useful trade publications; understanding the responsibilities and roles of
casting directors, managers, and agents; the importance of a professional head shot and résumé. The final sessions of this course will be co-taught with a professional casting director and agent. Spring term.

Prerequisites: Theater 723.3X, Theater 732.3X, and Theater 733.3X; or permission of the head of concentration.

738.3X Diction and Dialect for the Actor III  
60 hours; 3 credits  
Builds on basic diction skills acquired in the first year. Focus on the greater demands of speaking difficult heightened texts, whether classic or modern. Analysis of the structure and meaning of such texts. Emphasis on individual development of a greater command of expression. Development of ease, energy, and precision of articulation. Strong working knowledge of the International Phonetic Alphabet (IPA) and mastery of basic diction skills required. 
Prerequisite: Theater 734.3X and Theater 735.3X, or permission of the concentration head.

739.3X Diction and Dialect for the Actor IV  
60 hours; 3 credits  
Builds upon the speech skills previously acquired. Final semester of speech and dialect training. Focus on the acquisition of mastery in advanced diction and dialect techniques, which are essential to the well-rounded professional actor. 
Prerequisite: Theater 734.3X and Theater 735.3X, or permission of the concentration head.

740X History of Theater in Education  
30 hours plus field experience; 3 credits  
Prerequisite: approval of program head or chairperson.

741X Theater in the Classroom  
30 hours plus field experience; 3 credits  
Theater work in classroom settings. Existing models of theater arts in education. Using theater, improvisation, and creative drama to explore specialized subject areas and pedagogy. Practical studio work. The classroom as theater. Collaboration of education and theater students on theater in education projects, including workshops in focus schools. Mainstage and outside productions. Visits to area public schools. Creation of age-appropriate theater study guides. This course is the same as Education 796. 
Prerequisite: approval of program head or chairperson.

U751X History of the Theater to 1642  
30 hours plus conference; 3 credits  
Survey of methods of production from ancient Greece to the closing of theaters by the Puritan Commonwealth. (Not open to students who have completed Theater 771.1X.) Fall term. 
Prerequisite: a course in play production.

U752X History of the Theater from 1642  
30 hours plus conference; 3 credits  
Methods of production from the English Restoration to the present including French neoclassicism. (Not open to students who have completed Theater 772.1X.) Spring term. 
Prerequisite: a course in play production or Theater U751X or 771.1X.

U753X History of the American Theater  
30 hours plus conference; 3 credits  
Theater in the United States from colonial times to the present. Its importance as a social and cultural force. Spring term.

U755X American Musical Theater  
45 hours; 3 credits  
History of American musical theater from its beginnings through today. Examination of major artists and productions.

U760.1X, U760.2X, U760.3X Studies in Theater History and Production  
30 hours plus conference each term; 3 credits each term  
History and theory of one of the component arts of the theater: acting, directing, scene design and lighting, theater architecture, stage costumes. Subject is announced in advance and is supervised by a specialist. U760.1X: Fall term.

770.5X Rendering Techniques for the Stage Designer  
45 hours; 3 credits  
Media and techniques involved in visual communication of the stage designer. Fall term. 
Prerequisite: Theater 771.4X or permission of the chairperson.

770.6X Costume Construction for the Stage  
45 hours; 3 credits  
Theory and practice of constructing the stage costume for educational, community, professional theater. Application of these theories and techniques to current departmental productions. Spring term.
771.4X Stagecraft
30 hours lecture, 30 hours laboratory; 3 credits
Scenic construction equipment and techniques. Shop organization, materials, graphics, rigging and handling procedures, budgeting, lighting equipment maintenance and handling. Participation in department productions as assigned. Spring term.
Prerequisite: an introductory course in the principles and practices of theater production or permission of the chairperson.

771.5X Scene Design
45 hours; 3 credits
Principles of scenery design and their application to design problems. Fall term.
Prerequisite: Theater 771.4X or 772.4X or permission of the chairperson.

771.6X Costume Design
45 hours; 3 credits
Study of contemporary and period costume. Application to department productions. Fall term.
Prerequisite: an introductory course in the principles and practices of theater production.

771.7X Lighting Design
45 hours; 3 credits
Principles of lighting design and their application to design problems. Fall term.
Prerequisite: Theater 771.4X or the equivalent or permission of the chairperson.

772.4X Scenographic Techniques I: Fundamentals
45 hours; 3 credits
Study of fundamental scenographic concepts and execution of all necessary technical drawings used in preparation of scenery and lighting for the theater. Traditional tools and media will be used. Spring term.
Prerequisite: permission of the chairperson.

772.5X Advanced Scene Design
45 hours; 3 credits
Scene design for theater or television. Spring term.
Prerequisite: Theater 771.5X or the equivalent; and permission of the chairperson.

772.6X Advanced Costume Design
45 hours; 3 credits
Problems in costume design for the theater or television. Production design problems and principles. Application to a specific production. Spring term.
Prerequisite: Theater 771.6X.

772.7X Advanced Lighting Design
45 hours; 3 credits
Advanced study of lighting design. Spring term.
Prerequisite: Theater 771.7X or the equivalent or permission of the chairperson.

772.8X Scenographic Techniques II: 2D CADD
45 hours; 3 credits
Study of Computer Assisted 2D Drafting and Design as applied to the disciplines of scenery, lighting, and costume design.
Prerequisite: Theater 771.4X, 772.4X, or equivalent; and permission of chairperson.

772.9X Scenographic Techniques III: 3D CADD and Rendering
45 hours; 3 credits
Study of Computer Assisted 3D Drafting and Design as applied to the disciplines of scenery, lighting, and costume design.
Prerequisite: Theater 771.4X, 772.4X, 772.8X, or equivalent; and permission of chairperson.

773.1X Seminar in Theater Criticism
30 hours plus conference; 3 credits
Theater criticism in relation to the dramatic arts. Spring term.
Prerequisite: Theater U751X and U752X.

773.4X Theater Design and Planning
30 hours plus conference; 3 credits
Study of the design and planning of a functioning theater. Examination of typical theater forms. Aesthetics of theater architecture. Spring term.
Prerequisite: Theater 771.5X; and Theater 773.9X or 775.2X or 772.2X or Speech and Theater 771.9X.

773.5X Advanced Studies in Design
45 hours; 3 credits
Application of stage design to a specific production. Projects in scenery, costume, and/or lighting. With prior written permission of the chairperson, students may repeat this course once, in a different area for credit. Spring term.
Prerequisite: Theater 772.5X or 772.6X or permission of the chairperson.

773.9X Principles of Performing Arts Administration
45 hours; 3 credits
Introduction to history and methods of producing in the performing arts. Economic and administrative structuring of performing arts companies and institutions. Fall term.

774.4X Scene Painting
45 hours; 3 credits
Intensive study of styles of architecture and ornament as applied to scene painting. Traditional and contemporary
styles, practices and procedures in scene painting. Application to department productions.  
Prerequisite: Theater 771.4X or permission of the chairperson.  

774.9X Business Management of the Performing Arts  
45 hours; 3 credits  
Managerial organization and structuring of contemporary performing arts ventures, companies, institutions. Economics, accounting, budgeting, box office organization and control.  
Spring term.  
Prerequisite: Economics 701X or a college course in accounting or permission of the chairperson.  

775.2X Directing I: Interpretive Fundamentals  
Minimum of 60 hours; 3 credits  
Text interpretation through the exploration of objectives, actions, obstacles, events, and environments. Fall term.  
Prerequisite: permission of the chairperson.  

775.6X Costume-Rendering Techniques  
45 hours; 3 credits  
Study and application of the methods, techniques, and media used by the costume designer in the realization and presentation of the costume sketch. Fall term.  

775.9X Promotion and Marketing for the Performing Arts  
45 hours; 3 credits  
Methods of press, media, and direct mail promotion; theories of product marketing and audience development for performing arts companies and events. Spring term.  
Prerequisite: permission of the chairperson.  

776X Research Problems in Theater  
45 hours; 3 credits  
Individual and group study of advanced problems of theater production or history and criticism.  
Prerequisite for students concentrating in design/technical: Theater 772.5X; and Theater 773.4X or the equivalent of the course. Prerequisite for students concentrating in directing: Theater 722.3X and Theater 776.2X; Theater 773.4X or the equivalent of the course. Prerequisite for students concentrating in theater history and criticism: Theater U751X and U752X and 773.1X; or the equivalent of the courses.  

776.2X Directing II: Rehearsal Process and Problems  
Minimum of 60 hours; 3 credits  
The director's relationship to the actor in the creation of a theater event; establishment of a common language. Culminates in a forty-minute prethesis production. Spring term.  
Prerequisite: Theater 775.2X or permission of the chairperson.  

776.7X Technology in the Performing Arts  
45 hours; 3 credits  
Prerequisite: permission of the chairperson.  

776.8X Fundraising for the Performing Arts  
30 hours plus conference; 3 credits  
In-depth study of the philosophy and methodology of raising contributed income for the professional, nonprofit performing arts institutions. Fall term.  
Prerequisite: permission of the chairperson.  

776.9X The Performing Arts and the Law  
45 hours; 3 credits  
Analysis of legal briefs, contracts, copyright laws, and other legal obligations related to performing arts companies and institutions. Fall term.  
Prerequisite: permission of the chairperson.  

777.2X Directing III: Interpreting the Classics  
Minimum of 60 hours; 3 credits  
Advanced study of new and classic texts to be selected and developed as scene study in collaboration with other theater artists. Fall term.  
Prerequisite: Theater 775.2X and 776.2X; or permission of the chairperson.  

777.09X, 777.10X, 777.11X, 777.12X  
Theater Practicum  
Minimum of 60 hours; 3 credits each term  
Assigned theater production work and projects, supervised by faculty, in the Brooklyn College Center for the Performing Arts. (Theater 777.09X is not open to students who have completed Theater 777.9X.)  
Prerequisite: permission of the chairperson.  

778X Thesis Production and/or Project  
45 hours; 3 credits  
Completion of an approved production and/or project with written thesis. (Not open to students who are enrolled in or have completed Theater 789X.)  
Prerequisites: completion of the prethesis and permission of the head of the M.F.A. directing concentration.  

778.2X Directing IV: Problems in Style  
Minimum of 60 hours; 3 credits  
Focus on the evolution of the director's personal vision with particular emphasis on visual and aural organization.  
Prerequisite: Theater 775.2X, 776.2X, and 777.2X; or permission of the chairperson.
778.09X, 778.10X, 778.11X Performing Arts Externship
200 hours of fieldwork per course plus conference to be arranged; 4 credits
Placement with a professional performing arts company or organization for intensive fieldwork; joint supervision by a faculty member and a member of the sponsoring organization. Regular conferences with faculty supervisor; preparation of a written report regarding the externship experience. (Theater 778.09X is not open to students who have completed Theater 778.9X.)
Prerequisite: permission of the chairperson.

779.2X Advanced Seminar in Directing
Minimum of 60 hours; 3 credits
Theory and practice of advanced problems in theater directing of classic plays for contemporary audiences; application of theory in rehearsal and performance. Spring term.
Prerequisite: Theater 775.2X, 776.2X, and permission of the chairperson.

786X Stage and Company Management
45 hours; 3 credits
Professional procedures and practices for the rehearsal, technical preparation, performance, and touring of theater, opera, and dance productions.
Prerequisite: permission of the chairperson.

786.9X Artistic/Managerial Decision Making in the Performing Arts
30 hours; 3 credits
Dynamics of planning, organizing, and realizing performing arts projects, ventures, companies, and institutions; interrelationships between artists, managers, and funding sources in the collaborative process of making performances. Spring term.
Prerequisite: permission of the chairperson.

787X Seminar in Performing Arts Management
30 hours plus conference; 3 credits
Study in depth of selected problems related to the management of performing arts organizations using the case study approach, role playing, other discussion methods. Spring term.
Prerequisite: Theater 773.9X or permission of the chairperson.

788.09X, 788.10X, 788.11X, 788.12X Criticism Workshop
15 hours; 1 credit each term
Research and writing projects designed to strengthen skills in theatrical criticism and dramaturgy.
Prerequisite: permission of the chairperson.

789X Professional Residency and Thesis
Minimum of 400 hours of fieldwork plus conference; 6 credits
Full-time work with a professional arts company or organization under joint supervision of a faculty member and a staff member from the sponsoring organization. Written thesis covering the history of the organization, a description of the resident's responsibilities, an evaluation of the residency experience, and an overview of the field as a whole. (Not open to students who are enrolled in or have completed Theater 778X.)
Prerequisite: permission of the chairperson.

796.1X, 796.2X Special Problems
45 hours each term; 3 credits each term
Directed study supervised by a faculty member.
Prerequisite: permission of the chairperson.

799G Thesis Research
Hours to be arranged; no credit
Research for master's thesis supervised by a faculty member. Degree is not earned until thesis is accepted. Students register for this course only once.
Prerequisite: permission of the chairperson.
Women's Studies Program
Office: 227 Ingersoll Hall Extension
Telephone: 951-5476, 951-5777, 951-4807
Director: Barbara Winslow

The following course is inactive and will be offered only if there is sufficient demand:

700X Theories of Feminism
Inventory of Registered Programs at Brooklyn College

The following graduate degree, advanced certificate, and combined undergraduate/graduate degree programs are offered at Brooklyn College. These programs have been approved by the New York State Education Department (SED) and are listed in the Inventory of Registered Programs. The Higher Education General Information Survey (HEGIS) code numbers and the SED program code numbers appear next to the appropriate programs. These codes are distinct from the SIMS code numbers that appear in the Schedule of Classes and are used for registration and other internal purposes. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

<table>
<thead>
<tr>
<th>HEGIS Code</th>
<th>SED Program Code</th>
<th>Program Title</th>
<th>Degree or Certificate Awarded</th>
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<tbody>
<tr>
<td>0502</td>
<td>88398</td>
<td>Accounting</td>
<td>M.S.</td>
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<tr>
<td>1002</td>
<td>02016</td>
<td>Art</td>
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<td>1003</td>
<td>02017</td>
<td>Art history</td>
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<td>0831</td>
<td>26751</td>
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<tr>
<td>0808</td>
<td>31638</td>
<td>Autism spectrum disorders</td>
<td>Advanced Certificate</td>
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<tr>
<td>0401</td>
<td>01987</td>
<td>Biology</td>
<td>M.A.</td>
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<td>0401.01</td>
<td>26742</td>
<td>Biology teacher</td>
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<td>0799</td>
<td>02104</td>
<td>Business information systems</td>
<td>B.S.-M.P.S.</td>
</tr>
<tr>
<td>1905</td>
<td>02083</td>
<td>Chemistry</td>
<td>M.A.</td>
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<tr>
<td>1905.01</td>
<td>26766</td>
<td>Chemistry teacher</td>
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<tr>
<td>1214</td>
<td>21578</td>
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<td>M.P.H.</td>
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<tr>
<td>1214</td>
<td>78495</td>
<td>Community health (See also Health and nutrition sciences; Nutrition.)</td>
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<tr>
<td>0701</td>
<td>77202</td>
<td>Computer and information science</td>
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<tr>
<td>0799</td>
<td>86190</td>
<td>Computer science and health science</td>
<td>M.S.*</td>
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<td>1507</td>
<td>02056</td>
<td>Creative writing (See also English.)</td>
<td>M.F.A.</td>
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<tr>
<td>2204</td>
<td>01895</td>
<td>Economics</td>
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<tr>
<td></td>
<td></td>
<td>Education* (See also teacher education programs in subject areas.)</td>
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<td>0899</td>
<td>31826</td>
<td>Bilingual education</td>
<td>Advanced Certificate</td>
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<tr>
<td>0802</td>
<td>26826</td>
<td>Childhood education teacher (grades 1–6)</td>
<td>M.S. in Ed.</td>
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<tr>
<td></td>
<td>26823</td>
<td>Childhood education teacher</td>
<td>M.S. in Ed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(grades 1–6): extension to bilingual education</td>
<td></td>
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<tr>
<td>0823</td>
<td>26736</td>
<td>Early childhood education teacher (birth-grade 2)</td>
<td>M.S. in Ed.</td>
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<tr>
<td>0827</td>
<td>31972</td>
<td>Educational leadership: School district leader</td>
<td>M.S. in Ed.</td>
</tr>
<tr>
<td>0828</td>
<td>31971</td>
<td>Educational leadership: School building leader</td>
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<tr>
<td>0811</td>
<td>31828</td>
<td>Gifted education</td>
<td>Advanced Certificate</td>
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<tr>
<td>0830</td>
<td>26806</td>
<td>Literacy teacher</td>
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</tr>
<tr>
<td>0804.03</td>
<td>26723</td>
<td>Middle childhood education specialist: mathematics (grades 5-9)</td>
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<tr>
<td>0804.04</td>
<td>26820</td>
<td>Middle childhood education teacher: general science (grades 5-9)</td>
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<tr>
<td>0826.01</td>
<td>01846</td>
<td>School counseling</td>
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<td>0826.01</td>
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<tr>
<td>0826.02</td>
<td>01998</td>
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</tr>
<tr>
<td>HEGIS Code</td>
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<td>Program Title</td>
<td>Degree or Certificate Awarded</td>
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<td>School psychologist</td>
<td>Advanced Certificate</td>
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<td>0808</td>
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<td>Teacher of students with disabilities in early childhood education</td>
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<tr>
<td>0808</td>
<td>26729</td>
<td>Teacher of students with disabilities in childhood education</td>
<td>M.S. in Ed.</td>
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<tr>
<td>0808</td>
<td>31136</td>
<td>Teacher of students with disabilities in middle childhood education</td>
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<td>1501</td>
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<td>English (See also Creative writing.)</td>
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<td>1299.30</td>
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<td>Exercise science and rehabilitation (See also Physical education.)</td>
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<td>30468</td>
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<td>0837</td>
<td>27318</td>
<td>Health and nutrition sciences: health teacher (See also Community health; Computer science and Health science; Nutrition.)</td>
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<td>Information systems</td>
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<td>Music composition</td>
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<td>Music performance</td>
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<td>0832</td>
<td>26817</td>
<td>Music education</td>
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<td>1306</td>
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<td>Nutrition (See also Community health; Health and nutrition sciences.)</td>
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<td>1004</td>
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<td>Performance and interactive media arts</td>
<td>Advanced Certificate</td>
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<td>Political science</td>
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<td>2002</td>
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<td>Experimental psychology</td>
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<td>Industrial and organizational psychology-human relations</td>
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<tr>
<td>2008</td>
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<td>Program Title</td>
<td>Degree or Certificate Awarded</td>
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<td>1506</td>
<td>81376</td>
<td>Speech</td>
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<td>1220</td>
<td>77741</td>
<td>Audiology</td>
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<td>Audiology</td>
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<td>(program cosponsored by Hunter, Brooklyn, and the CUNY Graduate School; Graduate School awards the Aud.D.)</td>
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<td>1220</td>
<td>77738</td>
<td>Speech-language pathology</td>
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<td>0603</td>
<td>77735</td>
<td>Television and radio</td>
<td>M.S.</td>
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<td>0603</td>
<td>84002</td>
<td>Television production</td>
<td>M.F.A.</td>
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<tr>
<td>1007</td>
<td>76211</td>
<td>Theater</td>
<td>M.F.A.</td>
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<tr>
<td>1007</td>
<td>04002</td>
<td>Theater</td>
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</tbody>
</table>

* Additional titles for alternative (transition B) certificates were added to the inventory by the State Education Department when it reregistered the teacher education programs to meet revised teacher certification regulations in 2000–02. Consult with the School of Education for further information.

†Programs currently not accepting applications.
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Donatas Stanciauskas Assistant Director, Preparatory Center for the Performing Arts

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Seth Soloway Artistic Director, College Community Services, Inc.

Center for Student Disability Services

Valerie M. Stewart-Lovell Director

College and Community Relations

Nicole Hosten Director

College/High School Relations

David Cohen Principal, Midwood High School at Brooklyn College

Nicholas Mazzarella Principal, Brooklyn College Academy

Communications

John P. Hamill Director

Pat Willard Acting Associate Director

Government and Community Relations

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Lisa Schwebel Director, Honors Academy and Scholars Program

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Professors Emeriti
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Angel Alcalá Modern Languages and Literatures
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Bonnie Anderson History
Agustin J. Anievas Music
Anne Arnold Art
Seymour Aronson Chemistry

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Jonathan Baumbach English
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Craig Bell Health and Nutrition Sciences
Melvin M. Belsky Biology
Lee Beltzer Speech
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Gertrude Berger Education
Joanne Bernstein Education
Myron Berrick Education
Somdev Bhattacharji Geology
Phyllis M. Bigel Physical Education and Exercise Science
Thomas Birkenhead Economics
Nancy Black English
Oliver Bloodstein Speech
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Stuart H. Blum Education
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Peter Brancato Physics
Patricia Brauch Library
Renate Broidenthal History
Virginia Brooks Film
Elizabeth Brown History
Malcolm Brown Philosophy
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James L. Campbell Art
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Linda Jean Carpenter Physical Education and Exercise Science
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Irwin Cohen Chemistry
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Natalie Darcy Education
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James Day Television and Radio
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Sylvia Fava Sociology
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Melvin M. Scult  Judaic Studies
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Emile Serposs  Music
Robert G. Shadick  Education
Jacob G. Sharefkin  Chemistry
Paul Shelden  Music
Edward Shoenthal  Economics
Abraham Shumsky  Education
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George Skorinko  Physics
Helene Sloan  Health and Nutrition Sciences
Joseph M. Smith  Physical Education
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Peter Spielberg  English
Claire Sprague  English
Elmer Sprague  Philosophy
Ursula Springer  Education
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Anthony Stevens-Arroyo  Puerto Rican and Latino Studies

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Charles E. Whipple  Student Affairs and Services
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William T. Williams  Art
Mary Wiseman  Philosophy
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Robert Viscusi English, 2006–11

Matthew J. Fantaci Professor in Modern Languages and Literatures
Margarette Fernández Olmos Modern Languages and Literatures, 2008–11

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Mac Wellman English

Murray Koppelman Professors
Haroon Kharem Education, 2007–09
Bruce MacIntyre Music, 2008–10

Jacque Edward Levy Professor in Analytical Chemistry
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Aaron Kozbelt Psychology, 2007–09
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Vartan Gregorian, 1993–94
Ann Douglas, 1995–96
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The date of initial appointment at Brooklyn College follows the listing for each faculty and staff member.

Israel Abramov Professor of Psychology. B.A., LL.B., University College, London; Ph.D., Indiana. 1973

Brian Abrams Associate Professor of Music (adjunct). B.A., Vassar; B.S., SUNY, New Paltz; M.M.T., Ph.D., Temple. 2001

Christian Abreu Accounts Payable. 2007

Vito Acconci Distinguished Lecturer in Art. 2005

Ana M. Acosta Associate Professor of English. Licentiate, Universidad de Los Andes, Bogotá; M.A., M. Phil., Ph.D., Columbia. 1999

Jennifer D. Adams Assistant Professor of Education. B.S., Oral Roberts; M.A., New York; M.S., Brooklyn; Ph.D., CUNY. 2007


Marlene Adelle Department of Health and Nutrition Sciences. 1990


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Isanna Agrest Senior Laboratory Technician in Chemistry. B.S., M.S., Mogilev Technological Institute, Belarus. 2001

Alan A. Aja Assistant Professor of Puerto Rican and Latino Studies. B.A., Kentucky; M.A., Brandeis; Ph.D., New School. 2007

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Moses Akinwunmi Laboratory Technician in Psychology. 1974

Susie Akrong Office of Facilities Planning and Operations. A.A., Fiorello La Guardia Community College. 2002

Lawrence Albrecht Evening and Weekend Supervisor, Library Café. Library B.S., SUNY, Old Westbury. 2002

Konstantinos Alexakos Assistant Professor of Education. B.S., City College; M.A., New York; M.Phil., Ph.D., Columbia. 2005

Yasmin Ali Director, Enrollment Services Center. B.A., M.A., Brooklyn. 2002

Eddie Allen Lecturer in Music (adjunct). B.M., William Paterson University. 2006

Ray Allen Professor of Music; Director, American Studies Program. B.S., Bucknell; M.A., Western Kentucky; Ph.D., Pennsylvania. 1993

Barbara Allier Library. 1996

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Eric Alterman Distinguished Professor of English. B.A., Cornell; M.A., Yale; Ph.D., Stanford. 2004

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Elisabeth Brauner Associate Professor of Psychology, B.S., M.S., Oldenburg, Germany; Dr. rer. nat., Goettingen, Germany. 2003
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Helen Brereton Office of the Dean of Undergraduate Studies. 1998
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Elaine Brooks Professor and Deputy Chairperson, CLAS, Department of English, B.A., SUNY Buffalo; M.A., Columbia; Ph.D., New York. 1980
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Rachel Mayer Brownstein Professor of English, B.A., Barnard; M.A., Ph.D., Yale. 1973
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Dave Bryan Special Assistant to the Dean for Student Affairs, B.S., M.A., Brooklyn. 2001
Ryan D. Buck Student Center Administrator/Director, B.A., M.A., University of North Texas. 2007
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Pauline Bullen Assistant Professor, SEEK Department. M.Ed., Brock University; Ph.D., Toronto. 2006
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Moraima Burgos Coordinator, Student-Campus Communication, Outreach, and Development, Office of Student Affairs. B.S., Brooklyn. 2002
Edwin G. Burrows Distinguished Professor of History, B.A., Michigan; M.A., Ph.D., Columbia. 1972
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Pauline Bynoe Assistant Professor of Education, B.A., Ed.D., Brooklyn; Columbia. 2001
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Joan Caccamo Acting Assistant Director of Recreation, Intramurals, and Intercollegiate Athletics, B.S., St. Francis; M.S., Fordham. 2001
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Angela Caragliano Office of Human Resource Services. 2005
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Maria Carosone Department of Political Science, A.A.S., Kingsborough. 1990
Cedric Carter Print Works. 1998
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Sharon Casares School of Education. 1996
Frank Cassara Lecturer in Music (adjunct), B.A., M.Mus., Manhattan School of Music. 2006
Darshawne Cassidy Office of Financial Aid. 1999
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Accessible Facilities for Persons with Disabilities

Boylan Hall
Restrooms: Women: students, 0403 near bookstore, 2105, 5107, and 6111; staff, 2142.
Men: students, 0401, 2216, 5108, and 6113; staff, 2124.
Ramp: Main entrance on Quadrangle.
Automatic doors: Main entrance on Quadrangle.
Elevator: “B” near main entrance.

Gershwin Hall
Restrooms: 06A, 011, 080, and 083.
Telephones: W heelchair accessible: off theater lobby near 149.
Infrared listening devices: 092 Levenson Recital Hall; 143 Gershwin Theater.
Seating: W heelchair seating locations with companion seating; aisle transfer seating.
Ramps: Theater entrance on Campus Road (open for performances only); building entrance on campus.
Automatic doors: Building entrance on campus.
Elevator: Building lobby.

Ingersoll Hall
Restrooms: See Ingersoll Hall Extension.
Telephones: Volume control: 1165, 2105A, and near 2163A.
Infrared listening devices: 1310 and 2310.
Ramp: Main entrance on Quadrangle.
Automatic doors: Main entrance on Quadrangle.
Elevator: Near main entrance.

Ingersoll Hall Extension
Telephones: Volume control: 136, 322b, and 338.
Wheelchair accessible: near 136, 439, and 525.
Infrared listening devices: 148.
Ramps: Bedford Avenue entrance and near Lily Pond.
Elevators: All.

James Hall
Restrooms: Women: students, 1406; staff, 1605.
Men: students, 1312 and 1402; staff, 1601.
Telephones: W heelchair accessible: near 1602; with volume control: 2602.
Elevators: All. W heelchair entry to James Hall from elevator at Bedford Avenue.

La Guardia Hall—Brooklyn College Library
Restrooms: All floors.
Telephones: Volume control and wheelchair accessible.
Ramp: Main entrance on Quadrangle.
Automatic doors: Main entrance on Quadrangle.
Elevators: All.
Infrared listening devices: Auditorium.

Quadrangle
Ramps: Corner between La Guardia Hall and Ingersoll Hall; corner between La Guardia Hall and Boylan Hall.

Roosevelt Hall
Telephones: See Roosevelt Hall Extension.
Ramp: Main entrance on Bedford Avenue.
Automatic doors: Basement-level entrance, near loading dock and parking lot. First floor Bedford Avenue and west entrance near W est Q uadrangle.
Elevator: East-side elevator opposite 004 and 108 provides access to Roosevelt Hall and Roosevelt Hall Extension.

Roosevelt Hall Extension
Restrooms: W omen: students, 202; students and staff, 405.
Men: students, 209; students and staff, 409.
Telephones: Volume control and wheelchair accessible: near 120.
Elevators: W est-side elevator, opposite 005 and 102, provides access to Roosevelt Hall Extension only. E ast-side elevator, opposite 004 and 123, provides access to Roosevelt Hall and Roosevelt Hall Extension.

Student Center
Restrooms: Basement level; second, fourth, fifth, and sixth floors; and Penthouse.
Telephones: Volume control: basement level and second, third, fifth, and sixth floors.
Ramp: Entrance near Campus Road and Amersfort Place.
Elevators: All.
**Whitehead Hall**

**Restrooms:** Women: 308. Men: 310.

**Telephones:** Volume control: first-floor lobby, near stairway, near 222. Wheelchair accessible: outside entrance, opposite library; first-floor lobby, near stairway; near 222 and 416.

**Ramp:** Entrance on Campus Road is on street level. Entrance on campus has chairlift to first floor.

**Automatic doors:** Entrances on Campus Road and opposite library.

**Elevators:** All.

**Wheelchair lift:** Entrance opposite library has interior wheelchair lift for access to elevator.

**Whitman Hall**

**Restrooms:** Lobby and stage level.

**Telephones:** Volume control: mezzanine lobby.

**Infrared listening devices:** 023 New Workshop Theater; 101 Whitman Hall.

**Seating:** Wheelchair seating locations with companion seating; aisle transfer seating.

**Ramp:** Entrance on sidewalk level.

**Automatic doors:** Main entrance.