CATALOG
1981 — 1983

KINGSBOROUGH COMMUNITY COLLEGE
— of —
The City University of New York

2001 Oriental Boulevard
Manhattan Beach, Brooklyn, N.Y. 11235
934-5000
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# ACADEMIC CALENDAR
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<td>Registration—DAY ONLY</td>
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<td>7</td>
<td>NO CLASSES—Labor Day</td>
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<td>CLASSES BEGIN—Evening Only</td>
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<td>Late Registration &amp; Program Changes—Day and Evening</td>
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<td>Spring 1982</td>
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<td>Advanced Standing:</td>
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<td></td>
<td>Change of Curriculum:</td>
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<td></td>
<td>Transfer of Sessions—Day to Evening—Evening to Day</td>
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<td>28</td>
<td>NO CLASSES AFTER 4:00 P.M.</td>
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<tr>
<td>29-30</td>
<td>NO CLASSES—Rosh Hashana</td>
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<tr>
<th>October</th>
<th>Event Description</th>
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<tbody>
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<td>Make-Up Examinations for Preceding Spring &amp;/or Summer Session</td>
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<td>6</td>
<td>EVENING CLASSES FOLLOW WEDNESDAY SCHEDULE</td>
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<td>7</td>
<td>NO CLASSES AFTER 4:00 P.M.</td>
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<tr>
<td>8</td>
<td>NO CLASSES—Yom Kippur</td>
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<tr>
<td>12</td>
<td>NO CLASSES—Columbus Day</td>
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<td>23</td>
<td>DAY CLASSES ONLY follow Tuesday Schedule</td>
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<td>LAST DAY to File Applications for:</td>
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<td>January 1982 Degrees</td>
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<td>LAST DAY to File Applications for:</td>
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<td></td>
<td>Spring 1982</td>
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<td></td>
<td>Advanced Standing:</td>
</tr>
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<td></td>
<td>Change of Curriculum:</td>
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<td></td>
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<td></td>
<td>Change of Status—Non-Degree to Degree</td>
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<td>3</td>
<td>NO CLASSES—Election Day</td>
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<td>6</td>
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<td>Withdraw from that Course with a &quot;W&quot; Grade</td>
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<td>11</td>
<td>NO CLASSES—Veterans’ Day</td>
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<td>16-18</td>
<td>Make-Up Final Exams Administered for</td>
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<td>26-27</td>
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<td>30</td>
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<th>Event Description</th>
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<td>NO CLASSES—Winter Recess</td>
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<th>Date</th>
<th>Event</th>
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<tbody>
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<td>January</td>
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<tr>
<td>4 Mon</td>
<td>CLASSES BEGIN—Day &amp; Evening</td>
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<td>Late Registration &amp; Program Changes</td>
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<tr>
<td>11 Mon.</td>
<td>LAST DAY to Drop Course(s) Without Academic Penalty</td>
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<td>15 Fri.</td>
<td>NO CLASSES—Human Rights Day</td>
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<tr>
<td>28 Thurs.</td>
<td>LAST DAY for Students doing Passing Work in a Course to</td>
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<td>Withdraw from that Course with a &quot;W&quot; Grade</td>
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<td>Spring 1981 &amp;/or Summer 1981 Sessions</td>
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<td>11 Thurs.</td>
<td>LAST DAY—Day &amp; Evening Classes</td>
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<tr>
<td>12 Fri.</td>
<td>NO CLASSES—Lincoln's Birthday</td>
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<tr>
<td>15 Mon.</td>
<td>NO CLASSES—Washington’s Birthday</td>
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<tr>
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<tr>
<th>Date</th>
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<td>February</td>
<td>Registration—Day &amp; Evening</td>
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<td>18 Thurs.</td>
<td>Registration—Day &amp; Evening</td>
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<td>19 Fri.</td>
<td>Registration—Day &amp; Evening</td>
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<td>22-23 Mon.-Tues.</td>
<td>Registration—Day &amp; Evening</td>
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<td>24 Wed.</td>
<td>Registration—Day &amp; Evening</td>
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<td>26 Fri.</td>
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<td>Program Changes—Day &amp; Evening</td>
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<td>18 Thurs.</td>
<td>Last Day to Drop Course(s) Without Academic Penalty</td>
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<td>Day Classes Only Follow Friday Schedule</td>
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<td>Transfer of Sessions—Day to Evening</td>
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SPRING 1982 — SUMMER 1982 MODULE

June
14 Mon. .............. CLASSES BEGIN—Day & Evening
21 Mon. .............. LAST DAY to Drop Course(s) Without Academic Penalty

July
5 Mon. .............. NO CLASSES—Independence Day
8 Thurs. .............. LAST DAY to File Applications for:
                      Summer 1982 Degrees
12 Mon .............. LAST DAY for Students doing Passing Work in a Course to
                      Withdraw from that Course with a "W" Grade
15 Thurs .............. LAST DAY For Removal of "INC" for
                      Fall 1981 and/or Winter 1982 Sessions
26 Mon .............. LAST MEETING—Day & Evening Classes
27 Tues .............. FINAL EXAMS—Day & Evening Classes

ACADEMIC CALENDAR for 1982-1983 will be available May 1982

ACADEMIC CALENDAR

Kingsborough conducts classes on an innovative, special academic calendar. Classes are held during a 12-week Fall session, which starts in September, and ends late in December. This is followed by a 6-week Winter module, which ends during February. A 12-week Spring session starts at the beginning of March, and ends in the middle of June. This is followed by a 6-week Summer module which runs until the end of July.

All matriculated students in the degree programs are required to attend both 12-week sessions. Attendance during the 6-week modules, for which there are no additional tuition fees required, are optional. Among the advantages the 6-week modules offer is the opportunity to take added courses that, in some programs, may make it possible to earn the Associate Degree in less than two full years. Students who choose to attend only the two 12-week sessions have an opportunity to seek employment to earn additional funds, obtain field experience, fill co-op requirements, etc., or, to use the periods for rest and relaxation before starting the next regular 12-week session.
ADMINISTRATIVE OFFICERS

Israel Glasser, Acting President
B.A., M.P.A, Ph.D.

Ralph Edwards, Dean of Administration and Planning
B.S., M.S., Ed.D.

Gene J. Flanagan, Dean of Continuing Education
B.A., M.A., Ed.D.

Alfred R. Mascolo, Dean of Instructional Services
B.S., M.A.

Anthony F. Russo, Dean of Students
B.A., M.A.

Michael Zibrin, Jr., Dean of Faculty
A.A, A.B., M.B.A.

Fred B. Malamet, Associate Dean of Faculty
B.A, M.A., Ed.D.

Thelma L. Malle, Associate Dean of Faculty for Open Admissions
B.S., M.A.

David B. Silver, Associate Dean of Administration and Planning
A.B., J.D.

Stuart Suss, Director of Evening Studies
B.A., M.A., Ph.D.

Joseph Musicus, Business Manager
A.A.S., B.B.A.
History

Kingsborough Community College, a college of the City University of New York, is administered by the Board of Trustees of the City University of New York. Founded in 1963 as the ninth City University Community College, and twenty-seventh State-wide two-year college, Kingsborough offers three degree programs. The Liberal Arts program leads to the Associate in Arts (A.A.) degree; programs in Mathematics and Sciences, and the Arts (Music, Fine Arts and Theatre Arts) lead to the Associate in Science (A.S) degree; programs in Business, the Health Sciences and Human Services lead to the Associate in Applied Science (A.A.S.) degree. Daytime and Evening Sessions are held throughout the academic year. Continuing Education non-credit courses are available.

In September 1964, Kingsborough admitted its first students into two temporary locations in Sheepshead Bay and in mid-Brooklyn. The College received its permanent, unique and beautiful, 67-acre site at Manhattan Beach in the Fall of 1965. Enclosed on three sides by the waters of Sheepshead Bay, Jamaica Bay and the Atlantic Ocean, the College's ultra-modern campus is composed of a continuous series of inter-connected buildings (as distinguished from the usual separate buildings seen on most campuses). The Kingsborough campus has been lauded as a forward-looking solution to the problems of College growth and urban pressure. Outstanding features include library; media and computer centers; lecture halls and learning resource center; science technology and visual arts buildings; two “College-Halls” each housing four groups for 750 students, with cafeteria, lounge, study, counseling and faculty offices; theatre-auditorium, student-faculty center; physical education facilities with two gymnasiums and an Olympic size indoor swimming pool; special facilities for the nursing, business, and secretarial science departments; offices for administration, general services and a power plant. During construction of the current facilities, students used, studied, and learned in renovated and temporary structures at the far end of the site.
Goals

Kingsborough Community College is committed to the advancement of the goals of the New York State Board of Regents. Towards this objective, Kingsborough’s activities include:

I) Promoting recognition, and support, of community colleges as the basic institutional approach to provide broader public educational opportunities above the high school level.

II) Encouraging efforts to have community colleges located within reasonable daily commuting distance of students’ homes; open to all high school graduates or persons with equivalent educational backgrounds; operated at low cost to students.

III) Enhancing college performance goals with:
   a. General Education (providing post secondary-school general background and experience for all students in conjunction with their major academic fields of study);
   b. College or University Transfer Education (offering the requisite courses for two years of collegiate study to competent students who are interested in continuing for the bachelor’s degree);
   c. Occupational or Career Education (presenting programs beyond high school, but below professional levels of education and training, for students who seek immediate entry into the productive labor force, as well as for employed individuals who wish to improve their skills, or learn new ones. These programs serve business, industry, or government organizations who need employees with higher level abilities);
   d. Adult or Continuing Education (assisting adults of all ages to meet changing educational, cultural, and economic conditions and/or implement changes in their personal objectives with continuing education programs above the high school level);
   e. Guidance and Counseling (furnishing necessary testing, guidance, and counseling which enables students to recognize and accept their individual strengths and limitations, and to choose the most suitable programs based on objective information and personal situations).

Objectives

Kingsborough is committed to meeting its educational mission by finding and implementing additional innovative factors; fulfilling its obligations to students and community; contributing to the over-all performance of the CUNY system.

To meet these objectives Kingsborough will:

a. exert every effort to serve the educational needs of those within the geographic area;

b. offer educational programs that contribute to a balanced university educational system and avoid duplication where needs are already being met by other university units;

c. respond as far as possible with educational programs in areas where it has the capacity to fill demonstrated needs not already being met;

d. further its obligation to develop and define logical areas of specialization without scattering its energies;

e. continue to focus efforts on Liberal Arts transfer programs, as well as on the career programs in Business, Human and Public Service, Health and Related Services, Fine and Performing Arts.

f. remain in compliance with existing Federal, State and City rules, regulations and requirements as they apply to educational institutions.
The Future

Kingsborough Community College will continue to respond and to grow in order to most effectively meet the ever-changing complexion of the dynamic urban area in which it is situated. Programs will be routinely re-examined in light of shifting economic, social, occupational and recreational requirements of the population to be served. Any defined needs will be translated into educational programs. The College accepts its primary purpose as educational, therefore, Kingsborough will always attempt to meet its responsibility by contributing its facilities and its reservoir of talent to its locality in any endeavor which does not conflict with its primary mission.

Accreditation

Kingsborough Community College is accredited by the Middle States Association of Colleges and Secondary Schools. The Nursing Program has received accreditation from the National League for Nursing. Academic programs have been approved by the University of the State of New York, the State Education Department, and the State University of New York.

The College is a member of the American Association of Junior Colleges, American Council on Education, Association of Colleges and Universities of the State of New York, Council of Higher Educational Institutions in New York City, Junior College Council of the Middle Atlantic States, Middle States Association of Colleges and Secondary Schools, New York State Association of Junior Colleges, and the Association of College Unions-International.
ADMISSIONS INFORMATION AND PROCEDURES

Students must accept personal responsibility for fulfilling their individual program, admission, degree and graduation requirements; for meeting college deadline and attendance dates; for abiding by the rules and regulations as printed in official Kingsborough publications and announcements.

Admissions

Room A-105, ext. 5676

Information about attending Kingsborough Community College is available from the Admissions Office. The Admissions Office is responsible to the Dean of Instructional Services.

Matriculation

Prospective students who plan to attend the College to earn a degree, apply for "Matriculated Status" and may attend either Day or Evening sessions. Day session matriculants should be prepared to carry a minimum of 16 credits or 16 equated credits per semester (see pages 18, 19, 37).

Basic Admission Requirements

Applicants who have not previously attended any college require a High School Diploma or its equivalent (G.E.D.). A High School Certificate is not acceptable.

Applicants who earned a United States Armed Forces Institute Diploma must submit proof of having earned a total score of 225 on G.E.D. examinations.

Applicants who have attended any college or university, and wish to be considered for matriculated status, must hold a High School or Equivalency Diploma, and submit an official college transcript. Transfer students are required to meet CUNY Standards of Retention indices as a condition for admission.

Non-Degree Students

Prospective students who are not interested in earning a degree should apply for admission directly to Kingsborough. These application forms are available only from the College Admissions Office.

As application deadline dates (see academic calendar pages 5-8) are sometimes extended, Kingsborough's Admissions Office should be contacted for any possible changes in filing dates.

Non-degree students and part-time matriculants are classified as evening session students but are permitted to take day classes on a space available basis.

Non-degree students are not eligible for financial aid.

Transfer of Credits

Upon evaluation and acceptance by the College, applicants may receive a maximum of thirty (30) credits for courses completed at other accredited institutions, provided:

a. each course was completed with a satisfactory grade;

b. each course content is related to similar course work at Kingsborough;

c. a statement of honorable dismissal is submitted from each institution attended.
**Admission Application Procedures**

**Matriculated Status**

A. United States Citizens and Permanent Residents who have *not* attended a college or university previously, apply for admission by requesting the "University Application Processing Center (UAPC) Form" from either number 1, 2, 3 or 4 following.

**NOTE:** Current high school seniors in the New York City public schools (and several parochial schools) must use the UAPC Personalized Application which is obtained from the "College Advisor’s" Office in their High School.

B. United States Citizens and Permanent Residents *with* previous college attendance must file an Advanced Standing (Transfer) application. The application form may be obtained from either number 1 or 3 following.

**NOTE:** Applicants whose post-secondary school attendance was limited solely to institutions such as Hospital Schools of Nursing, Secretarial Science Schools, non-college-degree-granting Technical Institutes and LPN Training Schools, are considered "applicants without advanced standing" and should apply for admission through the University Application Processing Center number 2 following.

C. Students with Foreign Educational Experience.

Applicants who hold (or expect to obtain) temporary (non-immigrant) visas should apply for admission through number 5 following.

**NOTE:** Kingsborough is authorized under Federal Law to enroll non-immigrant alien students. The College issues Immigration Form I-20 to international students accepted as full-time matriculants. The College does *not* issue immigration forms to international students who wish to attend part-time (carrying less than 12 credits or less than 12 equated credits) or who are non-degree students.

1. Kingsborough Community College  
   Admissions Office  
   2001 Oriental Boulevard  
   Brooklyn, N.Y. 11235

2. University Application Processing Center  
   Box 136, Bay Station  
   Brooklyn, N.Y. 11235

3. Office of Admission Services  
   101 West 31 Street  
   New York, N.Y. 10001 — Phone (212) 868-6200

4. College Advisor’s Office of any local high school

5. International Student’s Office  
   City University of New York  
   101 West 31 Street  
   New York, N.Y. 10001
Admission Deadline Dates

Students who wish to be assigned to Kingsborough as their first choice of college, should strictly observe the deadline dates for filing their applications to attend the College. Preference may be given to applications received by dates listed.

I. Students who wish admission as matriculants for:

- **September** admission
  apply directly through the University Application Processing Center by ............................................ January 15
- **September** admission with advanced standing,
  apply directly to CUNY Office of Admission Services by ................. March 15
- **February** admission
  apply directly through the University Application Processing Center by ............................................ October 15
- **February** admission with advanced standing,
  apply directly to CUNY Office of Admission Services by ............................................ November 1

II. Students who wish admission as non-degree students for:

- **September** admission
  apply directly to Kingsborough by ............................................ August 15
- **February** admission
  apply directly to Kingsborough by ............................................ January 15

**NOTE:** Occasionally the application deadline dates indicated above are extended on the basis of available space. Kingsborough's Admissions Office should be contacted for any possible changes in filing dates.

Advanced Standing

Prospective students may be granted advanced standing, exemption, or credit, subject to departmental approval if, in courses which are appropriate to Kingsborough's degree program course offerings, they received the following grades:

Satisfactory scores earned on the Advanced Placement Examinations administered by Educational Testing Service.

Score of 50 or higher on subject examinations of the College Level Examination Program (CLEP).

"C" grade or higher, on the New York State College Proficiency Examinations (CPE).

"P" (pass) grade on the New York State College Proficiency Examination (CPE) in the area of Foreign Languages.
TUITION

(Tuition is charged each semester* and is payable at registration).

New York State TAP Awards (where the student can prove eligibility with an Award Certificate) reduces the student’s liability on the day of registration.

NEW YORK CITY RESIDENTS — residents of NYC for 12 consecutive months immediately preceding the first day of classes.

   FULL TIME (12 or more credits + or, 12 or more equated credits + +) .................................. $462.50
   PART TIME (less than 12 credits or, less than 12 equated credits) per credit or equated credit .................................. 35.00

NOTE: Students who reside in counties outside New York City but within New York State are eligible for New York City resident rates IF they present a valid certificate of residency from their county on the day of registration.

OUT OF CITY RESIDENTS
OUT OF STATE RESIDENTS
FOREIGN STUDENTS

   FULL TIME (12 or more credits + or, 12 or more equated credits + +) .................................. $712.50
   PART TIME (less than 12 credits or, less than 12 equated credits) per credit or equated credit .................................. 55.00

FOREIGN STUDENTS WHO HAVE AN ALIEN REGISTRATION CARD MUST PRESENT IT TO THE REGISTRAR. THE REGISTRAR DETERMINES RESIDENCY STATUS FOR TUITION PURPOSES.

Students who already possess at least an Associate Degree or its equivalent, will be charged tuition according to their residency status.

Upper division students (61 or more credits with passing grades) on permit from another CUNY unit, will pay tuition, per credit .................................. 40.00

SUPER CITIZENS (65 years of age and over with proof of age and residency) do not pay tuition. However, a registration fee of $25.00 per semester is required. (See "Required Fees.")

*A semester consists of either FALL session plus WINTER module or, SPRING session plus SUMMER module.

+ The number of credits for each course is indicated with course title and description
+ Equated credits pertain to non-credit remedial courses. See course descriptions.

All tuition and fee schedules are subject to change without prior notice, at any time, upon action of the Board of Trustees of the City University, the City and/or State of New York. Should fees or tuition be increased, payments previously made to the College will be counted as partial payment. Notification of additional amounts due, time, and method of payment, will be sent to individuals involved.
REQUIRED FEES
(These Fees are NOT Refundable)

Student Activity Fee Per Semester (including University Senate Fee)

Payable By Mail Before Registration

a. Full-time Students ............................................... $35.00
b. Part-time Students ........................................... 12.00

Special Fees

a. Application .......................................................... 20.00
b. Lockers (Per Semester) ......................................... .25
   (available on first come, first served, basis)
c. Special or Make-up Examinations
   (College permission to take an exam at other than scheduled times)
   First examination ................................................ 15.00
   Additional examinations ...................................... 5.00 each
   Maximum charge, per semester ................................ 25.00
d. Transcripts (to other than CUNY units) .................. 4.00 each
e. Duplicate receipt fee ............................................. 1.00
f. Super Citizens (65 years of age and over with proof of age)
   pay a Registration Fee PER SEMESTER ....................... 25.00

Penalty Fees

A. Late Registration .................................................. 15.00
   (to enroll after last day of regular registration)

*B. Program change .................................................. 10.00
   a program change involves:
   1. adding a course or courses at the same time;
   2. changing a course section for student’s convenience
      *This fee is waived when:
      a. the College cancels or withdraws a course;
      b. course hours are changed by the College;
      c. a course is dropped without replacement

C. Readmission to the College .................................... 10.00

D. Reinstatement ..................................................... 15.00

E. Payment Reprocessing .......................................... 15.00
   (payment with a personal check which is not honored by the bank)

F. Debts
   (no student will be permitted to register for a new term unless, and until, any
    indebtedness is cleared.)

NOTE: Payments must be only by check or money order, made payable to Kingsborough
Community College. A separate check is required for Student Activity Fees.
Enrollment is not complete until all fees are paid.
Tuition Refund Policy

In general, no portion of the Student Activity, Miscellaneous, Penalty or Special Fees will be refunded. A student who withdraws after the scheduled opening date of the session, or during the term, (full-time students who decrease their credit load, will be charged per credit) will receive tuition refunds according to the following schedule.*

<table>
<thead>
<tr>
<th>Date of Formal Withdrawal from Course(s) or the College</th>
<th>Fall and Spring Sessions</th>
<th>Winter and Summer Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before scheduled opening date of session</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Within six (6) calendar days after scheduled opening date</td>
<td>75%</td>
<td>50%</td>
</tr>
<tr>
<td>Between the seventh and twelfth calendar days after the scheduled opening date</td>
<td>50%</td>
<td>25%</td>
</tr>
<tr>
<td>Between the thirteenth and seventeenth calendar days after the scheduled opening date</td>
<td>25%</td>
<td>none</td>
</tr>
<tr>
<td>Beyond the seventeenth calendar day after the opening date</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>

In the event that the sixth, twelfth, or seventeenth day should fall on a weekend, the refund period would be extended to the next business day.

*Students entering Military Service may qualify for a refund other than as listed. The Registrar should be notified of the military status at the time of withdrawal.

Withdrawal from the College

The date that the withdrawal form is completed and submitted—NOT the last date of class attendance—is considered the official date of withdrawal from the college. No portion of the Student Activity, Special, Penalty or Miscellaneous Fees is refundable except when a student’s registration is cancelled or when the College withdraws or cancels courses (see page 45).
Health Regulations

Before registration, all matriculated students (and all non-degree students who register for Physical Education) must submit a medical record, including a Chest X-Ray or Tuberculin Skin Test report taken within the past year.

Nursing program students require specific immunizations and tests which must be completed prior to attending hospital affiliations. Nursing and Early Childhood Education/Child Care students whose TB tests prove positive require a chest x-ray.

A completed health statement, on the form distributed by the Health Services Office, Room A-108, Ext. 5684, must be completed by the student's personal physician. The College requires signed authorization (by parent or legal guardian for students under 21 years of age) to release any medical records.

The College reserves the right to reject an applicant because of an existing health condition, if the college medical officer believes it necessary and in the best interest of the student and the College (see page 32 for additional Health information).
Registrar's Office
Room A-101, ext. 5087

The Registrar's Office, under the jurisdiction of the Dean of Instructional Services, maintains the academic records for all students and is responsible for the registration of students into classes after they have been admitted to the College.

A prerequisite to attend classes is the completion of registration each semester, following instructions from the Registrar's Office. Students who do not receive registration material by the start of announced registration periods should immediately contact the Registrar's Office. No student is considered registered until all appropriate forms are filed with the Registrar's Office and tuition and fees are paid.

The following services performed by the Registrar's Office are available upon application:

- Advanced Standing
- Certification to Outside Agencies
- Change of Address
- Curriculum
- Grade
- Name
- Status
  - Day to Evening
  - Evening to Day
- Exams—Conflicts
- Exams—Make-Ups
- Graduation
- Permit to Attend Other Colleges
- Readmission
- Records Access
- Residency Determination
- Transcripts
- Transfer to CUNY Senior College
  - after completion of two (2) year degree
- Withdrawal from College
  - and/or
- Withdrawal from Course

Information—page 19;
Filing dates—Academic Calendar

Information—page 40;
Filing dates—Academic Calendar

Information—page 39;
Filing dates—Academic Calendar

Information—page 5-8;
Filing dates—Academic Calendar

Information—page 42;
Filing dates—Academic Calendar

Information—page 275;
Information—page 20;
Information—page 21;

Information—page 44;
Filing dates—Academic Calendar

Information—page 45;
Filing dates—Academic Calendar
Side view of outside stairwell connecting the award-winning Health and Physical Education Building with the Administration Building.
The Department of Student Development is dedicated to helping students achieve self-understanding and direction so that they can develop their maximum educational, social, and personal potential.

To aid students in their adjustments to the college community, and toward the realization of goals during and after college, the Department offers a wide variety of services within a framework designed to highlight individual growth.

Counseling and Related Services

Individual and group counseling conferences are scheduled as needed by the counselor, and/or student to deal with academic orientation, pre-registration, mid-semester evaluations and advance program planning.

Counselors are always available to assist with academic planning and to discuss matters of personal, social or vocational concerns.

Students who require intensive help with individual problems can receive professional, specialized counseling, which is given on a strictly confidential basis. Where protracted or particular help is required, referrals are made to appropriate experts on campus, or in community resources or agencies.

Course Offerings

SD 10 Student Development

Group discussion and seminars are the basis for a course geared to help incoming freshmen meet typical problems encountered in college. The specific areas covered include study habits, learning problems, career and program planning, college resources, adjustment to college life, and related problems.

SD 11 Career Decision Making

This course is designed to provide students with an opportunity to explore careers in relation to their interests, abilities and aptitudes and to their college experiences. Dealt with are such topics as the nature of work, contemporary changes occurring in careers and the "work ethic." An introduction to current labor market information is given, followed by intensive research and exploration of occupations on an individual basis. Instruction, enhanced by practical assignments, is given in the dynamics and techniques of job-seeking.

Career Placement and Transfer Counseling

Career counseling, career opportunities, and occupational information is made available to all incoming freshmen, current students, and Kingsborough’s alumni. The Office also serves as a central clearing house for off-campus part- and full-time employment opportunities. "Career Day" meetings are arranged on campus so students can meet with corporation and business representatives for first-hand information on future employment opportunities.

In addition, counselors explain and interpret policies, particularly as they relate to City University, which guarantees that all CUNY community college graduates be admitted to CUNY senior colleges (see page 44). College acceptance policies, which require that certain conditions be met, are spelled out in the Kingsborough Student Handbook, in various publications, in materials published by CUNY, SUNY, and other public and private senior colleges and universities.

Special "Transfer Days" are arranged enabling students to meet with representatives of many of those public and private institutions.

Career seminars and recruitment activities are appropriately scheduled with the business community.
**College Discovery**  
Room D-102, ext. 5520

The College Discovery Program was designed to assist economically and academically disadvantaged students with good potential to succeed in college. Under the sponsorship of The City University of New York, College Discovery students receive financial assistance, specialized counseling, tutorial and remedial services. Students are accepted into the program through the University Application Processing Center (see pages 31, 284).

**College Newspaper**  
Room T-7115, ext. 5615

Scepter, the College newspaper, is written, produced, managed and distributed by KCC students with a faculty advisor. Scepter prints college news, reviews all college activities and sports, carries letters, opinions, commentary, and items of interest to KCC students and faculty. Scepter appears regularly, is supported by the KCC Association, and has been cited for excellence.

**Co-Curricular Activities — Office of Student Life**  
Room U-204, ext. 5597

The Department of Student Development's co-curricular activities program was designed to enrich students' total college experience. These activities make possible: development of leadership skills and a sense of responsibility; contact with individuals of diverse backgrounds and interests; opportunity to serve the college and the community.

Students and faculty work together in making decisions in areas of college governance, discipline, etc. Opportunities are available on the College Council, the Kingsborough Community College Association, and the Faculty Student Committee on Student Discipline.

Over sixty student organizations, organized and administered by students with assistance from faculty advisors, develop programs which are academic, cultural, educational and social. Included are team sports and athletics, dramatics, special interest groups, social groups, a radio station, newspaper, yearbook and a peer advisor program. All activities are coordinated by the Office of Student Life.

There are six Student Government Councils, each representing a different curriculum area (business, evening studies, humanities, mathematics and science, public and health services, and social sciences).

**Day Care Center**  
Room T-7118, ext. 5157

A limited number of Kingsborough's day students' children — who are from 2 years and 9 months to 5 years of age — are professionally cared for at the campus Day Care Center while their parents attend classes. Funded by the Kingsborough Community College Association, applicants are accepted on a first come, first served basis. The facility is under the direction of, and administered by, Kingsborough students-parents.

**Expenses**

In addition to tuition and fees, dependent student expenses for an academic year are estimated at approximately:

- Books and supplies ............... $200.
- Transportation .................. 325.
- Lunch .......................... 470.
- Personal Expenses ............... 514.
- Food and Personal Expenses at Home .......... 769.
Financial aid is available to students through programs administered by the College or by outside agencies. The financial aid programs aim to assure that no qualified student is denied the opportunity for higher education because of the need for supplementary financial assistance.

Applicants for admission, and students already enrolled in the College who are citizens or permanent United States residents, are invited to meet with a Financial Aid counselor to determine eligibility and type of assistance available. Allocation of funds is subject to existing Federal, State and City University guidelines.

**Financial Aid Programs Currently Available Include:**

1. **SCHOLARSHIPS ANDGRANTS**
   a. New York State Regents Scholarships—Freshmen holding the Regents College and Nursing Scholarships will be awarded $250 annually without regard for amount of tuition or family income. This award is based on a competitive examination.
   b. Agency Scholarships—Kingsborough students may be eligible for scholarship assistance provided by various religious, fraternal and community agencies, business and industrial firms.
   c. Supplementary Educational Opportunity Grants—Federal funds are allocated for grants to financially needy and educationally deserving students under the Higher Education Act of 1965. Amounts range from $300. to $2,000. depending on need, family ability to contribute, and availability of funds.
   d. Nursing Scholarship Program—Under the Health Manpower Act of 1968, allocation of Federal funds is limited to full-time students enrolled in the Nursing program who have exceptional financial need and require such assistance to pursue the course of study. The maximum Nursing scholarship a student may receive for any 12-month period may not exceed $2,000. or the amount needed, whichever is lesser.
   e. Pell (Basic) Grant Program—A federal aid program authorized by the Education Amendments of 1972. Designed to provide financial assistance for students who could not otherwise attend post-high school institutions. The amount of the grant is based on family contribution, cost of education, and the amount of Federal funds actually available for the program. Two important criteria must be met when considering an applicant’s eligibility:
      1. citizenship or permanent residency status;
      2. at least part-time attendance as a student;
   f. Tuition Assistance Program (TAP) is designed to assist full-time students taking 12 or more credits to pay all or a portion of their tuition. To be eligible, a student must be a U.S. Citizen or permanent resident, and a resident of New York State. You may qualify for TAP if you and/or your family’s N.Y. State net taxable income is $20,000. or less. The amount of the award varies and does not have to be repaid.

*Non-Degree students and students holding foreign students’ visas are not eligible for aid.
II. LOANS

a. National Direct Student Loans—Provided under the National Direct Education Act—These loans, in amounts up to $1,500 per year, are available to eligible students. No payment is required during the student’s attendance at college. Repayment, at an annual interest rate of 4%, starts six months after graduation or termination of studies, and may be extended over a ten-year period, depending on the amount borrowed. Up to 50% of the indebtedness may be canceled for students who enter the teaching profession for a period of five years. Students who teach for seven years, in areas designated as disadvantaged, may have the loan canceled.

b. New York Higher Education Services Corporation Loans—Loans are available through this agency for students enrolled in degree programs, who carry at least six credits per semester. The funds may be borrowed from any local bank participating in the program. The student begins to repay the loan six months after studies are terminated, at an annual interest rate of 9%. Maximum amounts available range from $2,500 a year for dependent students, to $3,000 a year for independent students.

c. Nursing Student Loans—These loans are for eligible students enrolled full-time in the Nursing program. The maximum amount available to an individual borrower in an academic year may not exceed $2,500, or the amount of the student’s need, whichever is lesser. Repayments commence nine months after graduation or termination of studies. Annual interest is 3%. Effective September 29, 1979, with the enactment of Public Law 96-76 loans made from Nursing Loan Funds are not eligible for cancellation for employment. Loans made prior to September 29, 1979 are eligible for cancellation benefits.

d. Commercial Loan Programs—Many banks, insurance companies, and finance corporations lend funds for educational purposes. In many cases these loans are made without regard to financial need. While interest rates may be relatively higher, such loans may be helpful to those who are not in serious financial need.

III. WORK-STUDY PROGRAM

The College Work-Study Program provides jobs for students who must earn money while attending college. Students may work an average of 15 hours a week while they attend classes and up to 40 hours a week during vacation periods. Students are paid from $3.35 to $3.85 an hour and are employed on-campus or in approved off-campus positions.

IV. GENERAL INFORMATION

Prospective students may apply for financial aid when they confirm their acceptance at the College. Applications and detailed financial aid information are available upon request at Kingsborough’s Financial Aid Office.

V. CONTINUING ELIGIBILITY

All students receiving financial aid are subject to the existing rules and regulations of the Federal and State Governments, the CUNY Board of Trustees and KCC.

VI. RIGHTS AND RESPONSIBILITIES OF THE STUDENT AS A CONSUMER

Part 178 of Title 45 U.S. Code of Federal Regulations of the Higher Education Act of 1976 requires that the Financial Aid Office have available certain types of information concerning the rights and responsibilities of prospective students. Accordingly, in compliance with federal and state laws and regulations relating to truth-in-lending, all students are hereby advised to review carefully the appropriate sections, in the College Catalog and Student Handbook, dealing with such areas as academic programs, cost of attendance, types of aid available, need analysis, refund procedures, satisfactory rate of academic progress, complying with deadlines for applications and documentation requests, etc.

Additional information is available upon request in the Financial Aid Office.
SPECIAL PROGRAMS

The Administration and faculty have inaugurated a number of far-reaching "Special Programs" designed to benefit Kingsborough students. They are available to the general college population, meeting the needs of a variety of specialized groups.

Bilingual Program
Room D-206, ext. 5576

Since 1970, the Bilingual Studies Program has provided opportunities for postsecondary education to Spanish-speaking high school graduates or holders of the Equivalency Diploma in need of improvement in basic English, Spanish, and Mathematical skills.

Students' whose knowledge of English is limited, take credit-granting college courses in Spanish while they improve English skills. They are placed in a Liberal Arts curriculum until the required level of English proficiency for other curricula is achieved.

The Program's objectives include: offering bilingual students instruction to further their educational goals; increasing their ability to function comfortably within this society's framework; stressing the importance of maintaining a viable identity within the Puerto Rican or other Spanish speaking minority communities in New York.

The Program is multi-faceted, offering counseling, intensive orientation, remedial instruction, and cultural activities.

For information contact the Bilingual Studies Program Office.

College Discovery
Room D-102, ext. 5520

Students who can meet certain requirements, including family income, may qualify to attend Kingsborough on the College Discovery program. To be considered, students should fill out the "Special Programs" section of the Admissions application (see pages 28, 284).

Computer Center
Administrative Room L-117, ext. 5640 • Instructional Room L-116, ext. 5645

The Kingsborough Community College Computer Center is available for students involved in computer science and data processing, faculty members engaged in research, and administrative departments requiring data processing support. The Computer Center installation includes an IBM 4331 and a remote job entry terminal that links Kingsborough with the CUNY University Computer Center which has an IBM 3033, IBM 4341, and an Amdahl 470 thus making the very latest in computing equipment available to KCC students.

The Computer Center is under the auspices of the Dean of Instructional Services.

Cultural Affairs

Professional entertainment and "name" personalities are brought to the College campus during the entire school year. Students, faculty and community members are given the opportunity to see, hear, and participate in many different art forms at nominal fees in an easily accessible, modern center. Presentations include: Performing Arts Festival, children's theatre, concerts, dance, films, lectures, music, mime, plays.

CUNY Baccalaureate Degree Program
Room E-309, ext. 5403

Dr. Julio Hernandez-Miyares is available on campus for advice and additional information concerning the program (see page 278).
**Disabled Students**  
Room A-216, ext. 5563

Specific assistance (such as special registration, reserved parking permits, etc.) and individual counseling are offered to students with particular needs. Prospective students with physical handicaps should visit the College before applying for admission. An appointment and an interview may be arranged by contacting the Coordinator of Services for the Handicapped.

**Health Services**  
Room A-108, ext. 5684

Before registration all entering students must have a complete health examination, by their family physician or a clinic, and submit a report of this examination to the College Health Services Office. With this required information the College can evaluate health status, facilitate the removal of handicaps to learning and ascertain the need for special adaptations of the college program to ensure the maximum development of each student. Health records are kept under secure conditions and used only by authorized college personnel and only for students' benefit. Students enrolled in certain specific curriculum areas (Community Mental Health Assistant, Early Childhood Education, Nursing), will have their health records routinely and regularly reviewed.

First aid, emergency treatment, educational, preventative and advisory services are provided. A Registered Nurse is in attendance when classes are in session. Physicians have regular office hours. By appointment, they see students with specific health problems. Any accident or illness incurred during school hours or enroute to the college should be reported immediately. Health Services is staffed by Joseph Beller, M.D., Sylvia Miner, M.D., Ruth Kahaner, R.N., Shirley Bernhard, R.N., Mary Lynch, R.N.

**Institute for Public Service (KIPS)**  
Room F-309A, ext. 5524

The Kingsborough Institute for Public Service, which was started in 1970, continues to pursue its goal of education and service for the College and the community. It makes is possible for the entire college population to take an active part in social, economic, public service and political action projects. KIPS is involved in the development of selected credit courses which add off-campus service to formal on-campus training. Workshops on timely topics of major campus interest provide a channel for College and community to work on shared problems. KIPS compiles information, edits and distributes the KCC Resources Handbook.

**Library**  
Room L-805, ext. 5637

The Kingsborough Library is a major learning resources facility providing a rich variety of materials and services to support the curriculum, meet information needs, assist in study and research, and stimulate cultural development. Its high-quality collection includes more than 90,000 carefully selected books, over 400 current periodicals, magazines and journals, more than 8,000 bound periodicals and over 7,000 microfilms. Additional resources include 6,000 pamphlets, government documents, career briefs, and special collections of maps and college catalogs. Professional librarians offer reference service and individual teaching assistance for the full utilization of all library resources.
Media Center
Room L-118, ext. 5074

The Media Center is a multi-faceted educational resource which offers a variety of non-print materials and media services. Among the materials available are motion pictures, audio and video tapes, slides, filmstrips, phonograph records and dictation discs. The Center maintains an audio studio for taped lessons, programs for playback and remedial use. Media reference service is available throughout the academic year. A Learning Lab provides audio playback facilities for faculty and students on a "walk-in" basis. The Center is under the Dean of Instructional Services.

Outreach

Among the special programs available to achieve additional goals, are: Peer Advisor Programs; Health Counseling; Veterans Counseling; Health Services; Special Services for Handicapped Students; Foreign Students Counseling; Counseling for Mature Adults; Selected Educational and Vocational Testing.

Radio Station WKR
The College's student operated FM radio station broadcasts on 103.1 FM to the entire community of South Brooklyn. It is the first FM license in Brooklyn in over 40 years, is an affiliate of the American Information Radio Network and a subscriber to the Associated Press News Service. Programming includes heavy news, public affairs commitments, entertainment and music shows.

The station organization allows students to develop skills in engineering, management, public relations, business, news, community relations and disc-jockey work.

Study Abroad
Room F-309A, ext. 5524

There are numerous opportunities for students to participate in Study Abroad Programs under various sponsorships. For information and details, see Dr. C. Frederick Stoerker in the Study Abroad Office.

Super Citizens

Kingsborough welcomes New York State residents 65 years of age and over. Those who enroll in credit courses will be exempted from tuition fees. However, a $25. registration fee is charged each semester and all penalty fees must be paid. Some documentation of age must be submitted with the admission application. Students are accepted on a matriculated or non-degree basis, depending on previous educational experience and availability of space at the College. To apply as a matriculated student check appropriate filing dates.

Prospective students who wish counseling call the Department of Student Development.

Tutorial Services
Room L-605, ext. 5118

Tutoring in academic and business courses is available on an individual or small group basis to Day and Evening Session students free of charge. Students requiring this service apply in the Institute's Office which is under the Dean of Instructional Services.

Veterans Affairs
Room L-517, ext. 5159

All veterans are urged to visit the Office of Veterans Affairs for information and assistance relating to: educational benefits; jobs; housing; insurance; personal and business loans; dental and medical referrals; vocational rehabilitation and other entitlements.
SPORTS

Intramurals

The intramural activities program, geared to promote a wide variety of interests and skills, is under the auspices of the Health, Physical Education and Recreation Department. As part of the Physical Education Program, it is a vital college activity. All levels of competition are provided to satisfy the sports program participants.

The program consists of team tournaments, club programs, special events and recreational activities. Areas for participation include archery, one-on-one basketball, 5-man basketball, co-ed bowling, cycling, fencing, gymnastics, karate, modern and folk dance, sailing, skiing, soccer, softball, team football, tennis, volleyball, and general varied recreation services.

Athletics

The Athletic Program is renowned in the northeastern part of the United States, offering men and women the opportunity to participate in a wide range of sports. Emphasis is placed upon promoting enjoyment, fitness, skill development, knowledge, and sportsmanlike competition.

For women the growing program includes the following varsity teams: basketball, bowling, cheerleading, power volleyball, softball, and tennis. The women’s program is sanctioned by the New York State Association of Inter-Athletics for Women (NYSAIAW) locally, and by the Eastern Association of Inter-Athletics for Women (EAIAW) and the National Junior College Athletic Association (NJCAA) regionally and nationally.

Male varsity team programs include baseball, basketball, golf, soccer, tennis, and track. The men’s program is sanctioned by the Metropolitan Community College Athletic Conference (MCCAC) the local conference, and by the National Junior College Athletic Association (NJCAA), on a regional, district and national basis.

Kingsborough is a member of Region XV, District of the NJCAA. There are 22 regions and 10 more encompassing districts geographically within the NJCAA. Victorious teams in the Regional structure compete against each other to determine District champions in each sport. The 10 District champions in turn compete for National titles.
Olympic-size swimming pool, one of the many outstanding sports and recreation facilities in the Health and Physical Education building.
ACADEMIC INFORMATION

Matriculation

Students who plan to pursue a degree program in a specific curriculum apply to the College for matriculated status.

All full-time students accepted by Kingsborough are required to enroll in a program of study consisting of at least 16 credits and/or 16 equated credits.

Non-Degree Students who request a change to Matriculated Status must meet the following requirements:
1. High School diploma or equivalent
2. Be in good academic standing
3. Take required CUNY Skills Assessment Tests

Freshman Course Placement

Matriculated day and evening students, and non-degree students attempting to achieve matriculation, must take placement examinations in reading comprehension, writing and mathematics. Results of these mandatory placement tests (given AFTER admission but BEFORE registration) determine specific course assignments in appropriate English and Mathematics classes (pgs. 144, 185).

Basic Skills Proficiency

Each student must meet standards of proficiency in basic skill areas of reading, writing and mathematics established by the College. In addition, the CUNY Board of Trustees has mandated that students meet a University-wide minimal level of skills proficiency before entrance to the upper division. Consequently, students will be tested in these areas after admission but prior to their freshman year, so as to determine whether they meet the minimal University standards and the College’s standards. Those who fail initially to meet these requirements will be given appropriate remedial instruction to assist them in achieving the required skills competency levels. Students who fail to achieve the minimal CUNY standards by the end of their sophomore year* will not be permitted to continue in the University.

*The end of the sophomore year is the semester, or session, in which the programs’ degree requirements for graduation are completed.

Basic Courses (+)

Basic courses are courses that individual Kingsborough departments feel are essential for college students so that they may learn the fundamental and basic concepts of a discipline. Basic Courses are designated by a +.

Advanced Courses

Advanced courses are courses that individual Kingsborough departments feel are important as follow-up courses to explore, either in breadth or depth, the areas of knowledge to which students have been introduced while taking the basic courses.

Remedial Courses (□)

Remedial courses are specifically designed for students whose skills assessment test scores indicate that special remediation assistance is required. Remedial, no credit courses are designated by a □.
MAINTENANCE OF ACADEMIC STANDARDS*

The grade of "INC" (incomplete), or its equivalent, shall be awarded only when the course requirement has not been completed for good and sufficient reasons and where there is reasonable expectation that the student can, in fact, successfully complete the requirements of the course.

The grade of "W" (withdrawal without penalty), shall be awarded only when it is clear that the student has good and sufficient reasons for withdrawing from the course, and is doing so at a time when passing work is being done in the course.

Non-credit grades, failing grades, withdrawal grades and their equivalents shall be incorporated in a student’s cumulative average for the purpose of determining academic standing and satisfactory progress toward a degree.

Satisfactory progress toward a degree shall be defined as the satisfactory completion of:

1. At least one-half of the first four (4) courses or twelve (12) credits attempted;
2. At least two-thirds of the first eight (8) courses or twenty-four (24) credits attempted;
3. At least three-quarters of the first twelve (12) courses or thirty-six (36) credits attempted;
4. At least three-quarters of all courses attempted in any subsequent semester and cumulatively by the end of each subsequent semester.

Each student will be expected to maintain a grade point average of at least 1.50 for the first four (4) courses or twelve (12) credits attempted and at least a 1.75 grade point average for the first eight (8) courses or twenty-four (24) credits attempted. In each subsequent semester students will be expected to maintain at least a 2.00 grade point average.

Students who fail to achieve these standards will be placed on probation for one semester and if unable to correct their deficiencies during that semester will be dropped from the University. The normal academic appeals procedure of the college will continue to consider individual cases, and to make such exceptions to the implementation of these guidelines as unusual circumstances may warrant.

Students who are dropped from the University for academic reasons may apply for readmission after one semester. Acceptance will be subject to faculty decisions (see pg. 45).

Students moving to the upper divisions of a four-year college either from the lower division of the college or from a community college within the University system or outside of it must provide evidence, in accordance with a standard to be determined by the Chancellor, that they have attained a level of proficiency in basic learning skills necessary to cope successfully with advanced work in the academic disciplines.

*By action of the CUNY Board April 5, 1976.
Grades

Grades indicate how well a student is doing. They deserve careful attention as evidence of good progress, or as an indication of the need for counseling, for increased effort, or both.

Standard Grades*

Students receive an official grade for each course at the end of a session. This becomes part of the permanent record. The standard grades are:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Definition</th>
<th>Quality Points (Index)</th>
<th>Rate of Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90—100%</td>
<td>4</td>
<td>Excellent</td>
</tr>
<tr>
<td>B</td>
<td>80—90%</td>
<td>3</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>70—79%</td>
<td>2</td>
<td>Fair or Average</td>
</tr>
<tr>
<td>D</td>
<td>60—70% (Lowest Passing Grade)</td>
<td>1</td>
<td>Below Average but Passing</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
<td>Failure</td>
</tr>
<tr>
<td>R</td>
<td>Minimum Level of Proficiency Not Met for Remedial Courses</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>INC</td>
<td>Term's Work Incomplete</td>
<td>-</td>
<td>Counts as an F unless Work is Completed within Six Months</td>
</tr>
<tr>
<td>W</td>
<td>Withdrew</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrew Failing (Counts as Failure)</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>WU</td>
<td>Withdrew Unofficially (Counts as Failure)</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>AUD</td>
<td>Audit</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

NOTE: Grades cannot be altered by repeating a course. Students may register to repeat a course if they received an "F", "W", "R", "WF", or "WU" grade.

A course in which a "D" grade was received may be repeated only if a more advanced course in that discipline has not already been completed.

Students who receive a "C" grade or better in any course offered at the college MAY NOT REPEAT that course. In unusual and extenuating circumstances the rule may be waived by the appropriate college committee.

(Regulations above do NOT apply to students in the Nursing Program, see page 199).

*See CUNY Board guidelines (page 38)

Grade Change

Students may request a review of a final grade NO LATER than the end of the semester following that in which the grade was given. Special requests and petitions, relating to Academic Standing, should be addressed to the Chairman, Committee on Admissions and Academic Standing.

"R" Grade

The "R" grade does not count in computing the scholastic index. It is given to a student in a remedial component who does not meet the minimum requirements at the completion of the semester. A student who receives the "R" grade in the same remedial component three times, will NOT be permitted to repeat that course again.
Scholastic Standing

The measure of scholastic standing is based on the number of graded credits and/or equated credits taken and the grade received.

Credits

Points allowed for courses taken in the College. Usually based on one credit for each weekly class hour. In some cases, the number of required hours may exceed the number of credits granted (i.e. science and physical education courses).

Example: Chemistry 12 — 6 hrs. 4 crs.
History 11 — 3 hrs. 3 crs.
Phys. Ed. 2 — 2 hrs. 1 cr.

Equated Credits

Weekly class hours in remediation and compensatory courses, for which actual credit is not allowed may, for certain purposes, be counted in the same manner as are credits.

Example: Math R1 — 4 hrs. 0 crs. AND 4 Equated credits.
English C1 — 5 hrs. 0 crs. AND 5 Equated credits.

Grade Point Index

The Grade Point Index is obtained by multiplying the grade point value by the number of credits for the course, then totaling the grade points and dividing by total credits. For example:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Point Value</th>
<th>Credits</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>A</td>
<td>4</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>French</td>
<td>D</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Music</td>
<td>C</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Physics</td>
<td>B</td>
<td>3</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>History</td>
<td>F</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Total 16 Grade Point Total 34

Grade Point Index (34 divided by 16) = 2.125 or just above "C" average.

Change of Curriculum

For any curriculum change, except Nursing* which has special regulations, students must file the appropriate form in the Registrar's Office, following the deadline dates on the Academic Calendar (pages 5-8). A curriculum change cannot go into effect until one semester in the original choice has been completed. The new curriculum goes into effect the semester following the student's application. The most recent information on college policy, and all proper forms for a change of curriculum or change from Evening to Day Session, are available in the Registrar's Office.

*Nursing Curriculum Requirements: Retention, Pre-Nursing Sequence (Pg. 199).

Auditing Policy

To audit a course a student must:

a. obtain permission from the Department Chairman and course Instructor.
   [Permission to remain in the class is on a space available basis.]

b. formally register, as an auditor, for the course under current tuition policy.

The grade of "AUD", which carries no credit and cannot be changed to any other grade will be given at the completion of the term.
Independent Study

The College offers students the opportunity to take a limited number of credits outside the traditional course structure as Independent Study. These offerings are designated by the course number 81. Students registering for such courses will undertake a prescribed program of individual and/or group research and may attend seminars or workshops dealing with their field of study. All work will be conducted under the supervision of the assigned instructor and will be evaluated and graded by the instructor.

Successful completion of the "81" courses generally requires from 1 to 3 hours per week and earns from 1 to 3 credits. Independent Study courses are open ONLY to upper freshmen and sophomore students who have:
1. An overall B average (3.00 index) in the subject area, and
2. Departmental approval.

Students will be permitted or take no more than 6 credits of Independent Study in any one area and no more than 12 credits toward the degree.

Topical and Pilot Courses

The College offers, in addition to the courses described in the catalog, a group of courses that meet the immediate needs and interests of various members of the student population or, gauge the appropriateness and popularity of new subject areas. These topical and pilot courses are designated by the course number 82. Specific descriptions of these courses appear in the Schedule of Classes for the term in which they are given.

Student Attendance Policy

As it is to students' advantage to attend all scheduled classes and laboratories in which they are enrolled, the College has instituted an attendance policy.

All students are expected to attend all classes regularly and punctually. Students enrolled in remedial courses are required to attend classes regularly to maximize the opportunity to overcome any diagnosed basic skills deficiencies.

A student in any course who has been absent 15% of the number of contact hours a class meets during a session is deemed excessively absent.

<table>
<thead>
<tr>
<th>12-Week Session</th>
<th>6-Week Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Hrs. per week</td>
<td>Excessive absences per session</td>
</tr>
<tr>
<td>2 hours</td>
<td>4 hours of absences</td>
</tr>
<tr>
<td>3 hours</td>
<td>6 hours of absences</td>
</tr>
<tr>
<td>4 hours</td>
<td>8 hours of absences</td>
</tr>
<tr>
<td>5 hours</td>
<td>10 hours of absences</td>
</tr>
<tr>
<td>6 hours</td>
<td>12 hours of absences</td>
</tr>
</tbody>
</table>

Where the course includes classroom lectures plus another component such as laboratory/field placement, etc., the 15% excessive absences policy applies to either component.

If excessive absences were due to special circumstances, timely appeal may be made to the Dean of Students for permission to continue in class. Approval by the Instructor is necessary for reinstatement in class.

Students who officially withdraw from courses within the first seventeen days of a session will have "no grade" recorded on their student transcripts.

Students who register for a course(s), and then do not officially withdraw from the course(s) for which they registered will receive a "WU" grade even if they never attend that class. Consult the College Calendar for withdrawal dates.
EXAMINATIONS

Mid-Term

Mid-term status is provided orally by Instructors. They are not entered on the permanent record.

Final

Students are responsible for meeting examination schedules (Final Exam dates pgs. 5-8). Students who have a conflict with a final examination schedule must immediately report to the Registrar’s Office for rescheduling.

Students may submit postcards to their Instructors at final exams to receive early notification of grades. The Registrar’s Office mails grade reports to students at the conclusion of each session.

Make-up Final

Students who miss final examinations for legitimate reasons may apply for make-up examinations. Generally, permission is granted only to students who maintain passing grades up to the final examination period. For each make-up examination, a “Petition for Final Make-up Examination” form, with the Instructor’s signature, must be completed and received in the Registrar’s Office by deadline dates noted on Academic Calendar (pages 5-8).

Students pay $15. for the first make-up exam plus $5. for each additional exam. A maximum of $25. is charged per semester (see page 20).

GRADUATION REQUIREMENTS

Students in all programs follow courses of study designed to provide a sound general education and a carefully developed program of occupational or pre-professional education.

Graduation with any of the degrees offered requires completion of the required number of credits for a course and degree major, plus a minimum Cumulative Index of 2.00 (at least a "C" grade).
HONORS

DEAN'S LIST

DAY SESSION

Matriculated students in the Day Session who complete at least 15 credits in a Fall or Spring semester with a 3.2 grade index or better, and who have not received a "WF," "WU," "F," "R," or an "INC." for that semester at the time the Dean's List is produced, are eligible for the Day Session Dean's List for the semester in which the superior record is achieved. Attainment of the Dean's List becomes a part of the student's permanent record and appears on all transcripts.

EVENING SESSION

Matriculated students in the Evening Session who complete at least 7 credits in a Fall or Spring semester with a 3.2 grade index or better, and who have not received a "WF," "WU," "F," "R," or an "INC." for that semester at the time the Dean's List is produced, are eligible for the Evening Session Dean's List for the semester in which the superior record is achieved. Attainment of the Dean's List becomes a part of the student's permanent record and appears on all transcripts.

Note: Day and Evening work completed during the winter or summer modules is not considered.

HONOR SOCIETIES

PHI THETA KAPPA
National Junior College Honor Society

Society members are selected on the basis of academic excellence. Students who complete 45 credits or more, with at least 30 of them at Kingsborough, and earn a cumulative index of 3.70 or higher, are invited to join the Society.

MU ALPHA THETA
Junior College Mathematics Honor Society

Sponsored by the Mathematical Association of America, membership is open to students who complete six credits or more in mathematics courses numbered 14 or higher and in computer science courses; maintain at least a "B" grade in those courses, and receive the recommendations of the Mathematics Department Faculty.
TRANSFER TO SENIOR COLLEGES AND UNIVERSITIES

KCC "Two-Plus-Two" Program

Articulation agreements are in effect between many CUNY, SUNY, and private senior colleges. These agreements make it possible for students who complete, and graduate from, specific KCC two-year programs, to transfer directly into the third year of the collaborating four-year institution without any loss of credit. These students, therefore, are able to earn two college degrees in four years.

CUNY Transfer Policies

For Graduates

Kingsborough graduates who meet all CUNY requirements, including the University's standards of proficiency in the basic reading, writing and mathematics skills (guidelines page 37), are guaranteed:

1. admission to a CUNY senior college (not always the first choice);
2. minimum of 64 credits will be transferable to the admitting senior college;
3. it will be unnecessary, under ordinary conditions, to earn more than the 128 credits usually needed to earn a Bachelor's degree. Additional credits may be required if the major field is changed or prerequisites are lacking.

An A.A.S. degree graduate who makes a change in the senior college into a program indirectly related to the former major, or into a Liberal Arts program, cannot be assured of a specific number of transfer credits. Additional credits may be needed for a new curriculum's requirements.

If the transfer is into a high demand program, graduates cannot be guaranteed their curriculum choice. In such cases, criteria for admission are set by the senior college according to seat availability.

For Non-Graduates

Students who wish to transfer to another CUNY college before earning their associate degree must:

1. meet that unit's entrance requirements;
2. have completed a certain number of credits and earned a minimum index at Kingsborough before filing a transfer application.

SUNY Transfer Policy

The SUNY Transfer Guarantee Program pledges that "A New York State resident who wishes to transfer from a State University of New York two-year college, including all community colleges throughout the state, and who possesses, or who will have, an Associate in Arts or Associate in Science degree at the time of transfer, is guaranteed an opportunity to continue education on a full-time basis at a senior campus of the University." All other students, with or without a degree, may apply for admission to SUNY units but the guarantee does not extend to them.

Private College Transfer Policies

Students who wish to transfer to a private college should check catalogs, directories and other literature available at Kingsborough, or should obtain information directly from the college they wish to attend.

NOTE: Details are available from Kingsborough's Counseling faculty, the KCC Student Handbook, or the Admissions Office of the unit desired.
WITHDRAWAL

From the College

Students who find it necessary to withdraw from the College must complete and file an official form in the Registrar's Office. Students who contemplate such action should first discuss the matter with a counselor to see if alternatives are possible and advisable. The date that the withdrawal form is completed and submitted to the Registrar's Office—NOT the last date of class attendance—is considered the official date of withdrawal from the College. For last days to withdraw without academic penalty, see Academic Calendar (pages 5-8). For tuition refund, see page 22.

A student who expects to return to Kingsborough, should fill out a Readmission Form at the same time. A readmission fee is charged when the form is submitted (see page 21). Readmission deadline dates are:

- Fall readmission — June 15
- Spring readmission — December 15

From a Course

After consultation with a counselor and before such action is taken, the proper forms must be filed with the Registrar's Office. The date that a change of program or withdrawal form is completed and submitted to the Registrar's Office—NOT the last date of class—is considered the official date of withdrawal from the course. See "Grades Assigned" under Student Attendance Policy (page 41).

DISMISSAL

A student who is dismissed for academic reasons may apply for readmission one semester after dismissal.

Application for readmission, with required readmission fee, must be filed with a letter of appeal to the Committee on Admissions and Academic Standing explaining the reason for the poor scholarship. Academic records will then be evaluated by the Committee. If the Committee believes the records indicate that the student will be able to make satisfactory progress toward earning the degree within a reasonable period of time, the student may be readmitted. If, at the end of the semester of readmission, the student's academic level has not been raised to CUNY's standards nor has adequate progress in achieving the appropriate standards been shown, the student will then be dismissed.

CATALOG

Each student receives a copy of the Kingsborough Catalog at registration. Catalogs are required for reference, for program and course planning, for future credit evaluation at other colleges or universities. As supplies are limited, and replacements may not be possible, students are strongly urged to KEEP their catalog copy.

Prospective students interested in the College should direct their catalog requests to the Publications Office.
EVENING STUDIES
Room A-107, ext. 5686

The Evening Studies Program has served an integral role in the College’s educational offerings since its inception. Individuals who are unable to attend courses during the day are given an opportunity to pursue part-time and/or full-time studies in the evening. A number of courses are also offered on Saturdays.

The Evening Studies Program serves:
• Adults eager for a second or new career or, for job upgrading;
• Parents planning to return to the work force;
• Super Citizens (New York State residents 65 years of age and over), who wish to avail themselves of opportunities in higher education under the College’s tuition waiver policy for senior citizens. With proof of age only a $25. registration fee is charged each semester;
• Veterans pursuing their educational objectives by attending College;
• Adults seeking educational opportunities and cultural interests for self-improvement and intellectual stimulation.

An extensive variety of course offerings are available in the Evening Studies Program. They include courses in the liberal arts, humanities, business and commerce, and the health sciences. At present, evening students can pursue Associate Degrees in Accounting, Business, Retail Business Management, Data Processing, Secretarial Science, and Liberal Arts. Students interested in other degree programs, which are only offered in the day session, can commence their studies in the evening and transfer to the day session to complete their degree.

Evening students may avail themselves of the following services:
• Counseling services, including Career Counseling and Placement;
• Financial Aid advisement;
• Tutoring in most subject areas;
• Accounting, English, Foreign Languages, and Mathematics Laboratories;

For information regarding matriculated and non-degree status in the Evening Program contact the Admissions or Evening Studies, Offices.

CONTINUING ADULT EDUCATION
Room A-214, ext. 5051

The Continuing Education Program offers a wide variety of non-credit courses, programs, and activities to meet learning needs not met through the degree programs of the College. Non-credit courses are offered evenings and Saturdays at the College, and at several high schools in the southern part of Brooklyn. Continuing Education Programs serve individuals who: wish to improve their job and career related skills; are interested in leisure time activities (creative and culinary arts, dancing, sports, etc.); seek to obtain the High School Equivalency diploma (the High School Equivalency Institute); are in need of basic skills. Other continuing education programs meet the needs of non-English speaking adults.

More information can be obtained by phone or through a personal visit to the Office. You may be placed on the mailing list for the Continuing Education Programs, which are distributed at the start of each of three semesters and at the beginning of the Summer program.
CURRICULA

Kingsborough Community College offers a choice among three degree programs. Graduates who successfully complete the courses prescribed for the two-year program of their choice can earn the degree that curriculum carries: the Associate in Arts (A.A.) degree, the Associate in Science (A.S.) degree, the Associate in Applied Science (A.A.S.) degree.

Students must consult with an advisor when selecting courses to assure that their choices meet the curriculum requirements of the prospective major.

The Associate in Arts (A.A.) degree is awarded upon satisfactory completion of the required credits for Liberal Arts. Candidates for this degree concentrate their studies in the fields of Languages; Literature and the Arts; Mathematics and the Sciences; the Behavioral and Social Sciences; Health and Physical Education. Requirements and credits start on page 53.

The Associate in Science (A.S.) degree is awarded upon satisfactory completion of the required credits for programs offered in Mathematics, in the Sciences and in the Arts. Candidates for this degree follow programs which closely parallel the A.A. program, but have greater concentration in Mathematics or Science, or in one of the Arts areas in which they plan to major. These programs include Biology (with concentrations in Environmental Science and in Food Science), Chemistry (with concentration in Food Science), Computer Science, Mathematics, Mental Health Assistant, Physics, Pre-Physical Therapy, Fine Arts, Music and Theatre Arts (with concentration in Radio Broadcasting). Requirements and credits start on page 57.

The Associate in Applied Science (A.A.S) degree is awarded upon satisfactory completion of the required credits in the Career programs: Business, Health and Social Service. Candidates for this degree follow programs which concentrate in the applied field. The professional fields in which these programs are offered include Accounting (with concentration in Tax Accounting), Business Administration transfer programs, Data Processing, Early Childhood Education/Child Care, Educational Associate, Nursing, Recreation Leadership, Retail Business Management (with concentrations in Supermarket Management and Food Marketing), Secretarial Science (with four options, Executive, Legal, Medical, School), Travel and Tourism. Requirements and credits start on page 79.

PROGRAMS

The College expects that every Kingsborough student will make consistent and determined progress toward earning a degree; seriously strive to perform well in all courses; spend approximately two hours of outside preparation, study and work for EACH hour of classroom instruction and, is committed to taking full advantage of the opportunities the College offers for a quality education.

The Administration and faculty are concerned with providing education of the highest degree of excellence; building basic skills which will facilitate and encourage further learning; assisting students to develop their individual potentials to their highest levels, and helping students establish a firm foundation upon which to build their future careers.

Students in all programs follow courses of study designed to provide a sound general education and a carefully developed program of occupational or pre-professional education.
## DEGREE PROGRAMS*

<table>
<thead>
<tr>
<th>Program</th>
<th>Requirements</th>
<th>HEGIS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Associate in Arts (A.A.)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>Page 53</td>
<td>5649</td>
</tr>
<tr>
<td><strong>Associate in Science (A.S.)</strong></td>
<td>Science and Mathematics Programs</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>Page 61</td>
<td>5604</td>
</tr>
<tr>
<td>Environmental Science Concentration</td>
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<tr>
<td>Food Science Concentration</td>
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<tr>
<td>Chemistry</td>
<td>Page 63</td>
<td>5619</td>
</tr>
<tr>
<td>Food Science Concentration</td>
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<tr>
<td>Computer Science</td>
<td>Page 65</td>
<td>5103</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Page 68</td>
<td>5617</td>
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<tr>
<td>Mental Health Assistant</td>
<td>Page 69</td>
<td>5216</td>
</tr>
<tr>
<td>Physics</td>
<td>Page 72</td>
<td>5619</td>
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<tr>
<td>Pre-Physical Therapy</td>
<td>Page 73</td>
<td>0499</td>
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<tr>
<td><strong>Arts Programs</strong></td>
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<tr>
<td>Fine Arts</td>
<td>Page 66</td>
<td>5012</td>
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<tr>
<td>Music</td>
<td>Page 71</td>
<td>5012</td>
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<tr>
<td>Theatre Arts</td>
<td>Page 75</td>
<td>5012</td>
</tr>
<tr>
<td>Radio Broadcasting Concentration</td>
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<tr>
<td><strong>Associate in Applied Science (A.A.S.)</strong></td>
<td>Business Career Programs</td>
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<tr>
<td>Business Administration</td>
<td>Page 79</td>
<td>5003</td>
</tr>
<tr>
<td>Data Processing</td>
<td>Page 81</td>
<td>5002</td>
</tr>
<tr>
<td>Accounting</td>
<td>Page 83</td>
<td>5004</td>
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<tr>
<td>Tax Accounting Concentration</td>
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<td>Retail Business Management</td>
<td>Page 84</td>
<td>5101</td>
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<tr>
<td>Supermarket Management and Food Marketing Concentration</td>
<td></td>
<td></td>
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<tr>
<td>Secretarial Science</td>
<td>Page 91</td>
<td>5004</td>
</tr>
<tr>
<td>(Executive, Legal, Medical, and School Secretaries)</td>
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<td></td>
</tr>
<tr>
<td>Travel and Tourism</td>
<td>Page 93</td>
<td>5005</td>
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<tr>
<td><strong>Health Programs</strong></td>
<td>Early Childhood Education/Child Care</td>
<td>Page 95</td>
</tr>
<tr>
<td>Nursing</td>
<td>Page 85</td>
<td>5503</td>
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<tr>
<td><strong>Social Service Programs</strong></td>
<td>Educational Associate</td>
<td>Page 87</td>
</tr>
<tr>
<td>Recreation Leadership</td>
<td>Page 86</td>
<td>5503</td>
</tr>
<tr>
<td></td>
<td>Page 89</td>
<td>5506</td>
</tr>
</tbody>
</table>

*NOTE: Enrollment in other than registered (or otherwise approved) programs may jeopardize a student's eligibility for certain student aid awards.*
DEGREES

All matriculated students must successfully complete the total number of required credits for their degree, divided into four basic categories.

1. **College Requirements**—the three credit Health and Physical Education course (HPE 12) PLUS, four to eight credits in English courses are required. Non-credit courses in Corrective Speech and/or remedial courses in English and/or Mathematics may be required.

2. **Department Requirements**—as specified in all curricula except Liberal Arts.

3. **Group Requirements**—limited courses are offered within six general areas.

4. **Free Electives**—choices from the entire range of course offerings.

**Associate in Arts**

Students matriculated for the A.A. degree must successfully complete a minimum of 64 credits, divided into three basic categories:

1. **College Requirements**—courses which all students must take (see 1 above).

2. **Group Requirements**—47 credits chosen from the Performing and Visual Arts, Language* and Literature, Social Sciences, Behavioral Sciences, Mathematics and Natural Sciences. These choices are the foundation for future academic studies and depend on background, interests, area of specialization, future career goals.

3. **Free Electives**—to make up the total number of credits required for the degree. They may be chosen from groups already mentioned or from any other courses offered by the College.

*Entering freshmen who wish to continue with the foreign language studied in high school must take the MLA Placement Examination. Placement recommendations are made by the Department of Foreign Languages.

**Associate in Science and Associate in Applied Science**

Students matriculated for the A.S. degree or the A.A.S. degree must successfully complete the number of credits specifically required for that degree. These credits are divided into four basic categories:

1. **College Requirements**—courses which all students must take (see 1 above).

2. **Group Requirements**—courses which offer limited choices within six general areas. Students may choose from the entire range of course offerings.

3. **Department Curriculum Requirements**—courses which students must successfully complete in the chosen area of specialization, such as Nursing, Recreation Leadership, Chemistry, Biology, etc.

4. **Free Electives**—courses which make up the total number of credits the specific curriculum requires. Students may choose from groups already mentioned or from any other courses offered.

Detailed statement of all degree requirements, for students matriculated as of the Fall 1981 semester and thereafter, are in the Degree Programs section of the catalog.
THE ASSOCIATE IN ARTS (A.A.) DEGREE

Students are exposed to the humanities, social sciences, natural sciences and mathematics. The objectives are similar to the prescribed courses frequently found in the first two years of baccalaureate liberal arts programs. Attention is focused on advanced and specialized courses of interest and concern. Students who plan to continue their studies and earn higher degrees, find that their Kingsborough A.A. degree serves as a solid foundation for transfer to a senior or professional college. Provisions for smooth transfer between KCC and CUNY, SUNY and many private colleges are in effect.

A student must earn at least a “C” grade (2.00 index), and have fulfilled all degree requirements to be certified for the degree.

PROGRAMS

Art • Behavioral Sciences and Human Services • Biological Sciences • English
Foreign Languages • Health, Physical Education and Recreation • Mathematics
Music • Physical Sciences • Social Sciences • Speech and Theatre
COURSE DESCRIPTIONS

Art Department
  Courses—pages 99
Behavioral Sciences & Human Services Department
  Courses—pages 105
Biological Sciences Department
  Courses—pages 119
Business Department
  Courses—pages 127
English Department
  Courses—pages 143
Foreign Languages Department
  Courses—pages 153
Health, Physical Education & Recreation Department
  Courses—pages 167
Mathematics Department
  Courses—pages 177
Music Department
  Courses—pages 191
Nursing Department
  Courses—pages 199
Physical Sciences Department
  Courses—pages 207
Secretarial Science Department
  Courses—pages 217
Social Sciences Department
  Courses—pages 227
Speech & Theatre Department
  Courses—pages 239
A.A. LIBERAL ARTS

Total credits: 64

Requirements for matriculants as of September 1981

Required Courses*
(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
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<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
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<tr>
<td>ENG 22</td>
<td>4</td>
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<td>HPE 12</td>
<td>3</td>
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<tr>
<td>Corrective Speech (if required)</td>
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<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
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Group Requirements+

<table>
<thead>
<tr>
<th>Group</th>
<th>Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>I</td>
<td>Performing and Visual Arts (2 areas)</td>
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<tr>
<td></td>
<td>Art</td>
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</tr>
<tr>
<td></td>
<td>Music</td>
<td></td>
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<td></td>
<td>Speech</td>
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</tr>
<tr>
<td></td>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Language and Literature (2 areas)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
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<td></td>
<td>Philosophy</td>
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<td>III</td>
<td>Social Science</td>
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<td></td>
<td>Economics</td>
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<tr>
<td></td>
<td>History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Behavioral Science (2 areas)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Anthropology</td>
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<tr>
<td></td>
<td>Psychology</td>
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<td></td>
<td>Sociology</td>
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<tr>
<td>V</td>
<td>Mathematics and Science (2 areas)</td>
<td>11</td>
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<tr>
<td></td>
<td>Biological Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics and Computer Science</td>
<td></td>
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<tr>
<td></td>
<td>Physics</td>
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<td>Chemistry</td>
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<td>Earth Science</td>
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<tr>
<td>VI</td>
<td>Electives</td>
<td></td>
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</tbody>
</table>

+6 of the 9 credits required from groups I, II, III and IV must be in Basic Courses.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.
THE ASSOCIATE IN SCIENCE (A.S.) DEGREE

The Science, Mathematics, Fine or Performing Arts courses offered in these programs provide sound foundations in those specialties as well as in the essential liberal arts. They were designed to permit students the opportunity for exploration with limited specialization in their major field. The Kingsborough A.S. degree will serve as a perfect foundation for transfer to a senior or professional college, or, for accepting a position in the chosen field.

A student must earn at least a “C” grade (2.00 index), and have fulfilled all degree requirements to be certified for the degree.

PROGRAMS

<table>
<thead>
<tr>
<th>Mathematics and Science:</th>
<th>Mathematics • Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology (with concentrations in Environmental Science and in Food Science)</td>
<td></td>
</tr>
<tr>
<td>• Chemistry (with concentration in Food Science)</td>
<td></td>
</tr>
<tr>
<td>• Mental Health Assistant</td>
<td></td>
</tr>
<tr>
<td>• Physics • Pre-Physical Therapy</td>
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</table>

<table>
<thead>
<tr>
<th>The Arts:</th>
<th>Fine Arts • Music</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Theatre Arts (with concentration in Radio Broadcasting)</td>
<td></td>
</tr>
</tbody>
</table>
A.S. DEGREE PROGRAMS

Course Descriptions

Mathematics Programs

Computer Science
Requirements, page 65
Course Descriptions, page 177

Mathematics
Requirements, page 68
Course Descriptions, page 177

Science Programs

Biology
Requirements, page 61
Course Descriptions, page 119

Chemistry
Requirements, page 63
Course Descriptions, page 209

Mental Health Assistant
Requirements, page 69
Course Descriptions, page 117

Physics
Requirements, page 72
Course Descriptions, page 213

Pre-Physical Therapy
Requirements, page 73

The Arts

Fine Arts
Requirements, page 66
Course Descriptions, page 99

Music
Requirements, page 71
Course Descriptions, page 191

Theatre Arts
Requirements, page 75
Course Descriptions, page 239
## A.S. BIOLOGY**

**Requirements for matriculants as of September 1981**

### Required Courses*

(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
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</table>

### Department Requirements

<table>
<thead>
<tr>
<th>Course Set/Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology I and II (BIO 13-14 pg. 121)</td>
<td>8</td>
</tr>
<tr>
<td>Comparative Anatomy (BIO 21)</td>
<td>4</td>
</tr>
<tr>
<td>Embryology (BIO 22)</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry I and II (CHM 11-12 pg. 209)</td>
<td>8</td>
</tr>
<tr>
<td>Analytic Geometry and Pre-Calculus Math (MAT 14 pg. 187)</td>
<td>4</td>
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### Environmental Science Concentration

<table>
<thead>
<tr>
<th>Course Set/Title</th>
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<tbody>
<tr>
<td>General Biology I and II (BIO 13-14 pg. 121)</td>
<td>8</td>
</tr>
<tr>
<td>Choose two for minimum of:</td>
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<tr>
<td>Marine Biology (BIO 52)</td>
<td>4 crs</td>
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<tr>
<td>Terrestrial Ecology (BIO 53)</td>
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<tr>
<td>Biology of the Invertebrates (BIO 55)</td>
<td>4 crs</td>
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<tr>
<td>Limnology (BIO 63)</td>
<td>4 crs</td>
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<tr>
<td>Chemistry I and II (CHM 11-12 pg. 209)</td>
<td>8</td>
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<tr>
<td>Mathematics (College level pg. 185)</td>
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### Food Science Concentration

<table>
<thead>
<tr>
<th>Course Set/Title</th>
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<tbody>
<tr>
<td>General Biology I and II (BIO 13-14 pg. 121)</td>
<td>8</td>
</tr>
<tr>
<td>General Microbiology (BIO 50)</td>
<td>4</td>
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<tr>
<td>Basic Principles of Molecular Biology (BIO 58)</td>
<td>4</td>
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<tr>
<td>General Chemistry I and II (CHM 11-12 pg. 209)</td>
<td>8</td>
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<tr>
<td>Organic Chemistry I (CHM 31)</td>
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<tr>
<td>Analytic Geometry and Pre-Calculus Math (MAT 14 pg. 187)</td>
<td>4</td>
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<tr>
<td>Science of Nutrition (SCI 70 pg. 216)</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Food Science †</td>
<td>3</td>
</tr>
<tr>
<td>Food Science (Analytic Chemistry) †</td>
<td>3</td>
</tr>
<tr>
<td>Calculus I and II recommended (MAT 15-16 pg. 187)</td>
<td>.8 crs</td>
</tr>
<tr>
<td>General Physics I recommended (PHY 11 pg. 213)</td>
<td>.5 crs</td>
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**Total credits: 64-65**
<table>
<thead>
<tr>
<th>Group</th>
<th>Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>I.</td>
<td>Performing and Visual Arts</td>
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<td></td>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Music</td>
<td></td>
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<tr>
<td></td>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II.</td>
<td>Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td></td>
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<tr>
<td>III.</td>
<td>Social Science</td>
<td>3</td>
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<tr>
<td></td>
<td>Economics</td>
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<td>History</td>
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<td></td>
<td>Political Science</td>
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<tr>
<td>IV.</td>
<td>Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Anthropology</td>
<td></td>
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<tr>
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<td></td>
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<td></td>
<td>Sociology</td>
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<td>V.</td>
<td>Mathematics and Science</td>
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<td></td>
<td>Biological Science</td>
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<td></td>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>VI.</td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

+All credits required from groups I, II, III & IV must be in Basic Courses. Departmental requirements may be used to satisfy groups I-V requirements.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

**This program is within the Biological Sciences Department. Consult Department Advisor
### A.S. CHEMISTRY**

**Requirements for matriculants as of September 1981**

<table>
<thead>
<tr>
<th>Required Courses*</th>
<th>7 to 11 credits</th>
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<tr>
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<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
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<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
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<table>
<thead>
<tr>
<th>Department Requirements</th>
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<tr>
<td>Organic Chemistry I and II (CHM 31-32)</td>
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<tr>
<td>Advanced General Physics I and II (PHY 13-14 pg. 213)</td>
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<tr>
<td>Calculus I and II (MAT 15-16 pg. 187)</td>
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<table>
<thead>
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<tr>
<td>General Biology I and II (BIO 13-14 pg. 121)</td>
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<td>General Microbiology (BIO 50)</td>
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<tr>
<td>General Chemistry I and II (CHM 11-12 pg. 209)</td>
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</tr>
<tr>
<td>Organic Chemistry I and II (CHM 31-32)</td>
<td>10</td>
</tr>
<tr>
<td>Analytic Geometry and Pre-Calculus Math (MAT 14 pg. 187)</td>
<td>4</td>
</tr>
<tr>
<td>Science of Nutrition (SCI 10 pg. 216)</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Food Science</td>
<td>3</td>
</tr>
<tr>
<td>Food Science (Analytic Chem) †</td>
<td>3</td>
</tr>
<tr>
<td>Calculus I and II recommended (MAT 15-16 pg. 187)</td>
<td>8 crs</td>
</tr>
<tr>
<td>General Physics I recommended (PHY 11 pg. 213)</td>
<td>5 crs</td>
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</table>

Total credits: 64-65
Group Requirements

Select three credits from EACH group—I thru IV

I. Performing and Visual Arts .................................................. 3 credits
   (This group excludes Art and Music Studio courses,
   Theatre Production and Technique courses)
   Art
   Music
   Speech
   Theatre Arts

II. Language and Literature .................................................. 3
    Foreign Language
    Literature
    Philosophy

III. Social Science ............................................................ 3
     Economics
     History
     Political Science

IV. Behavioral Science ....................................................... 3
    Anthropology
    Psychology
    Sociology

V. Mathematics and Science ................................................ 24 credits
    Biological Science
    Mathematics and Computer Science
    Physical Science

VI. Electives ............................................................................
     credits

+All credits required from groups I, II, III & IV must be in Basic Courses.
Departmental requirements may be used to satisfy groups I-V requirements.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

**This program is within the Physical Sciences Department. *Consult Department Advisor
A.S. COMPUTER SCIENCE**  
Requirements for matriculants as of September 1981  
Total credits: 68

Required Courses*  
(Remedial courses may be required in reading, writing and mathematics)  
<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
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</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
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<tr>
<td>ENG 22</td>
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</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
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<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
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Department Requirements  
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Computing (CS 13 pg. 181)</td>
<td>4</td>
</tr>
<tr>
<td>Computer and Assembly Language Programming (CS 14)</td>
<td>5</td>
</tr>
<tr>
<td>Mathematical Programming I and II (CS 35-36)</td>
<td>9</td>
</tr>
<tr>
<td>Calculus I, II and III (MAT 15, 16, 21 pg. 187)</td>
<td>12</td>
</tr>
<tr>
<td>Differential Equations (MAT 55)</td>
<td>3</td>
</tr>
<tr>
<td>Linear Algebra (MAT 56)</td>
<td>3</td>
</tr>
<tr>
<td>Biology I and II (BIO 13-14 pg. 121) OR, Physics I and II (PHY 11-12 pg. 213) OR, Advanced General Physics I and II (PHY 13-14)</td>
<td>8-10</td>
</tr>
</tbody>
</table>

Group Requirements +  
Select three credits from EACH group—I thru IV  
<table>
<thead>
<tr>
<th>Group</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Performing and Visual Arts</td>
<td>3</td>
</tr>
</tbody>
</table>
| (This group excludes Art and Music Studio courses, Theatre Production and Technique courses)  
  |  
  | Art |
  | Music |
  | Speech |
  | Theatre Arts |
| II. Language and Literature | 3 |
| Foreign Language |
| Literature |
| Philosophy |
| III. Social Science | 3 |
| Economics |
| History |
| Political Science |
| IV. Behavioral Science | 3 |
| Anthropology |
| Psychology |
| Sociology |
| V. Mathematics and Science | 24 |
| Biological Science |
| Mathematics and Computer Science |
| Physical Science |
| VI. Electives | — |

*All credits required from groups I, II, III & IV must be in Basic Courses.  
Departmental requirements may be used to satisfy groups I-V requirements.  
**This program is within the Mathematics & Computer Science Department.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.
**A.S. FINE ARTS**

Requirements for matriculants as of September 1981

<table>
<thead>
<tr>
<th>Required Courses*</th>
<th>Total credits: 64</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Remedial courses may be required in reading, writing and mathematics)</td>
<td></td>
</tr>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0 credits</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
</tbody>
</table>

Department Requirements† (Course descriptions pg. 99)

ALL Fine Arts Majors Must take:

- [Fine Arts Majors MUST take Art 33, 55 and/or 57 in the FIRST SEMESTER.]
- Survey of Art History I (ART 33) | 3 credits |
- Design I (ART 55) | 3 |
- Drawing I (ART 57) | 3 |
- Survey of Art History II (ART 34) | 3 |

PLUS Sequences in Fine Art Concentrations

**Art History**

- Modern Art I and II (ART 35-36) | 6 |
- African and Primitive Art (ART 37) | 3 |
- Renaissance Art (ART 38) | 3 |
- Music, History, and Comparative Literature Electives to total | 33 credits |

**Drawing and Painting**

- Drawing II (ART 58) | 3 |
- Painting I and II (ART 59-60) | 7 |
- Recommended Art electives to total | 29-31 credits |

**Graphics and Design**

- Photography I (ART 51) | 3 |
- Design II (ART 56) | 3 |
- Printmaking (ART 66) | 3 |
- Recommended Art electives to total | 29-31 credits |

**Sculpture**

- Sculpture I and II (ART 61-62) | 7 |
- Ceramics I (ART 63) | 3 |
- Recommended Art electives to total | 29-31 credits |
Group Requirements+

Select three credits from EACH group—I thru IV

I. Performing and Visual Arts .......................................................... 3 credits
   (This group excludes Art and Music Studio courses,
    Theatre Production and Technique courses)
   Art
   Music
   Speech
   Theatre Arts

II. Language and Literature .......................................................... 3
   Foreign Language
   Literature
   Philosophy

III. Social Science ........................................................................ 3
   Economics
   History
   Political Science

IV. Behavioral Science .................................................................... 3
   Anthropology
   Psychology
   Sociology

V. Mathematics and Science .......................................................... 6 credits
   Biological Science
   Mathematics and Computer Science
   Physical Science

VI. From Groups II, III and IV ....................................................... 6 credits

+ All credits required from groups I, II, III & IV must be in Basic Courses.
  Departmental requirements may be used to satisfy groups I-V requirements.

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and
  Mathematics Placement Examinations.

‡ Consultation with the Department Advisor is required.

** This program is within the Art Department.
# A.S. MATHEMATICS**

Requirements for matriculants as of September 1981

## Required Courses*

(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>0.4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>0.4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>0.3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
</tbody>
</table>

## Department Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus I, II and III (MAT 15, 16, 21 pg. 187)</td>
<td>12</td>
</tr>
<tr>
<td>Differential Equations (MAT 55)</td>
<td>0.3</td>
</tr>
<tr>
<td>Linear Algebra (MAT 56)</td>
<td>0.3</td>
</tr>
<tr>
<td>Programming in Fortran IV (CP 51 pg. 179)</td>
<td>0.4</td>
</tr>
<tr>
<td>Mathematics or, Computer Programming Elective†</td>
<td>0.8</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>0.8 to 10</td>
</tr>
</tbody>
</table>

## Group Requirements +

Select three credits from EACH group—I thru IV

<table>
<thead>
<tr>
<th>Group</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Performing and Visual Arts</td>
<td>0.3</td>
</tr>
<tr>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II. Language and Literature</td>
<td>0.3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>III. Social Science</td>
<td>0.3</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>IV. Behavioral Science</td>
<td>0.3</td>
</tr>
<tr>
<td>Anthropology</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>V. Mathematics and Science</td>
<td>24</td>
</tr>
<tr>
<td>Biological Science</td>
<td></td>
</tr>
<tr>
<td>Mathematics and Computer Science</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>VI. Electives</td>
<td>—</td>
</tr>
</tbody>
</table>

## Total credits: 68

**All credits required from groups I, II, III & IV must be in Basic Courses. Departmental requirements may be used to satisfy groups I-V requirements.**

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations † Consult Department Advisor.

**This program is within the Mathematics & Computer Science Department.**
# A.S. MENTAL HEALTH ASSISTANT**

**Total credits: 68**

## Requirements for matriculants as of September 1981

### Required Courses*

*(Remedial courses may be required in reading, writing and mathematics)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0 credits</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
</tbody>
</table>

### Department Requirements†

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*** General Psychology (PSY 11 pg. 108)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Human Growth and Development (PSY 32)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology of Behavior Pathology (PSY 36)</td>
<td>3</td>
</tr>
<tr>
<td>*** Introduction to Sociology (SOC 31 pg. 110)</td>
<td>3</td>
</tr>
<tr>
<td>Choice from the following 3 courses for</td>
<td>6</td>
</tr>
<tr>
<td>Sociology of the Family (SOC 35)</td>
<td>3 crs</td>
</tr>
<tr>
<td>Minority Groups in the U.S. (SOC 36)</td>
<td>3 crs</td>
</tr>
<tr>
<td>Introduction to Anthropology (SOC 37)</td>
<td>3 crs</td>
</tr>
<tr>
<td>Introduction to Human Services (MH 11 pg. 117)</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Interviewing and Group Leadership (MH 31)</td>
<td>3</td>
</tr>
<tr>
<td>Activities Therapy (MH 34)</td>
<td>3</td>
</tr>
<tr>
<td>Aging and Mental Health (MH 35)</td>
<td>3</td>
</tr>
<tr>
<td>Theories and Principles of Psychotherapy (MH 36)</td>
<td>3</td>
</tr>
<tr>
<td>Supervised Instructional Experience in Mental Health I and II (MH 96-97)</td>
<td>6</td>
</tr>
</tbody>
</table>

### Group Requirements +

Select three credits from EACH group—1 thru IV

<table>
<thead>
<tr>
<th>Group</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Performing and Visual Arts</td>
<td>3 credits</td>
</tr>
<tr>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II. Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>III. Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>IV. Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
</tr>
</tbody>
</table>

---

*Note: The total number of credits does not add up to 68 due to rounding.*
V. Mathematics and Science
   Biological Science
   Mathematics and Computer Science
   Physical Science

VI. Electives

+ All credits required from groups I, II, III & IV must be in Basic Courses.
Departmental requirements may be used to satisfy groups I-V requirements.
* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.
*** Any of these courses may be used to satisfy the Group IV requirement.
# Consultation with the Department Advisor is required.
** This program is within the Behavioral Sciences & Human Services Department.
A.S. MUSIC

Requirements for matriculants as of September 1981

Required Courses*

(remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficieny</td>
<td>0</td>
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</tbody>
</table>

Departmental Requirements‡ (course descriptions pg. 191)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory of Music I, II, III and IV (MUS 32, 33, 34, 35)</td>
<td>12</td>
</tr>
<tr>
<td>Ear Training I, II, III and IV (MUS 36, 37, 38, 39)</td>
<td>8</td>
</tr>
<tr>
<td>Music Literature I and II (MUS 51, 52)</td>
<td>6</td>
</tr>
<tr>
<td>Chorus or Band or Orchestra (MUS 91, 92, 93) (limit 1 1/2 credits per semester)</td>
<td>6</td>
</tr>
<tr>
<td>Basic Skills: Theory &amp;/or Piano I and II (if required—1 cr. ea.)</td>
<td>1 to 3</td>
</tr>
</tbody>
</table>

Group Requirements +

Select three credits from EACH group—I thru IV

I. Performing and Visual Arts
   (This group excludes Art and Music Studio courses, Theatre Production and Technique courses)
   - Art
   - Music
   - Speech
   - Theatre Arts
   - 3 credits

II. Language and Literature
   - Foreign Language
   - Literature
   - Philosophy
   - 3 credits

III. Social Science
   - Economics
   - History
   - Political Science
   - 3 credits

IV. Behavioral Science
   - Anthropology
   - Psychology
   - Sociology
   - 3 credits

V. Mathematics and Science
   - Biological Science
   - Mathematics and Computer Science
   - Physical Science
   - 6 credits

VI. From Groups II, III & IV
   - 6 credits

+ All credits required from groups I, II, III & IV must be in Basic Courses.

Departmental requirements may be used to satisfy groups I-V requirements.

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

‡ Consult Department Advisor.

** This program is within the Music Department.

Total credits: 64
## A.S. PHYSICS**

### Requirements for matriculants as of September 1981

**Total credits: 64**

### Required Courses*

(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
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<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
</tbody>
</table>

### Department Requirements

- Advanced General Physics I and II (PHY 13-14 pg. 213) .................................................. 10 credits
- Advanced Physics Elective† .................................................................................................. 8 credits
- General Chemistry I and II (CHM 11-12 pg. 209) .................................................................. 8 credits
- Calculus I and II (MAT 15-16 pg. 187) .................................................................................. 8 credits

### Group Requirements +

Select three credits from EACH group—I thru IV

<table>
<thead>
<tr>
<th>Group</th>
<th>Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Performing and Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
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<tr>
<td></td>
<td>Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Music</td>
<td></td>
</tr>
<tr>
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<td>Speech</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II.</td>
<td>Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>III.</td>
<td>Social Science</td>
<td>3</td>
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<tr>
<td></td>
<td>Economics</td>
<td></td>
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<tr>
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<td>History</td>
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<td></td>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>IV.</td>
<td>Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Anthropology</td>
<td></td>
</tr>
<tr>
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<td>Psychology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>V.</td>
<td>Mathematics and Science</td>
<td>24</td>
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<tr>
<td></td>
<td>Biological Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics and Computer Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>VI.</td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

+ All credits required from groups I, II, III & IV must be in Basic Courses. Departmental requirements may be used to satisfy groups I-V requirements.

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

† Consult Department Advisor.

** This program is within the Physical Sciences Department.
A.S. PRE-PHYSICAL THERAPY**
Requirements for matriculants as of September 1981

<table>
<thead>
<tr>
<th>Required Courses*</th>
<th>7 to 11 credits</th>
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</thead>
<tbody>
<tr>
<td>Remedial courses may be required in reading, writing and mathematics</td>
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</tr>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0 credits</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
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<tr>
<td>ENG C2 or ENG 12</td>
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</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Requirements‡</th>
<th>36-39 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology I and II (BIO 13-14 pg. 121)</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry I and II (CHM 11, 12 pg. 209)</td>
<td>8</td>
</tr>
<tr>
<td>General Physics I and II (PHY 11, 12 pg. 213)</td>
<td>10</td>
</tr>
<tr>
<td>Analytic Geometry and Pre-Calculus Math (MAT 14 pg. 187) and/or</td>
<td>4</td>
</tr>
<tr>
<td>Elements of Statistics (MAT 20)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology (2 courses) † (pg. 108)</td>
<td>6</td>
</tr>
<tr>
<td>Sociology (recommended) † (pg. 110)</td>
<td>3 crs</td>
</tr>
</tbody>
</table>

‡PLUS: Completion of 50 hours of volunteer or paid work in a physical therapy facility in an approved institution.

<table>
<thead>
<tr>
<th>Group Requirements +</th>
<th>12 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three credits from EACH group—I thru IV</td>
<td></td>
</tr>
<tr>
<td>I. Performing and Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td></td>
</tr>
<tr>
<td>Music</td>
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</tr>
<tr>
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<tr>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II. Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
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</tr>
<tr>
<td>III. Social Science</td>
<td>3</td>
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<tr>
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<tr>
<td>Political Science</td>
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<td>IV. Behavioral Science</td>
<td>3</td>
</tr>
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<tr>
<td>Psychology</td>
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<td>Sociology</td>
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<tr>
<td>V. Mathematics and Science</td>
<td>24</td>
</tr>
<tr>
<td>Biological Science</td>
<td></td>
</tr>
<tr>
<td>Mathematics and Computer Science</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>VI. Electives</td>
<td>—</td>
</tr>
</tbody>
</table>

Total credits: 64
+ All credits required from groups I, II, III & IV must be in Basic Courses. Departmental requirements may be used to satisfy groups I-V requirements.

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

† Consultation with the Department Advisor is required.

** This program is within the Department of Biological Sciences.

NOTE: Due to limited availability of upper division facilities for training students, completion of the first two years does NOT guarantee admission to the four year program.
A.S. THEATRE ARTS**
Requirements for matriculants as of September 1981

Required Courses*

(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
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<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
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<tr>
<td>HPE 12.</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
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</table>

Department Requirements (course descriptions pg. 239)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Theatre Arts(Th.A. 50)</td>
<td>3</td>
</tr>
<tr>
<td>Play Analysis (Th.A. 52)</td>
<td>3</td>
</tr>
<tr>
<td>Acting (Th.A. 52)</td>
<td>4</td>
</tr>
<tr>
<td>Stagecraft (Th.A. 55)</td>
<td>3</td>
</tr>
<tr>
<td>Lighting Design (Th.A. 56)</td>
<td>3</td>
</tr>
<tr>
<td>Play Production (Th.A. 59) (3 semesters, 1 credit each)</td>
<td>3</td>
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<tr>
<td>Department Electives†</td>
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Radio Broadcasting Concentration

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Introduction to Broadcasting (MCB 35 pg. 241)</td>
<td>3</td>
</tr>
<tr>
<td>Announcing-Radio and Television (MCB 36)</td>
<td>3</td>
</tr>
<tr>
<td>Broadcast Journalism (MCB 37)</td>
<td>3</td>
</tr>
<tr>
<td>Studio Operations and Production Techniques (MCB 39)</td>
<td>3</td>
</tr>
<tr>
<td>Department Electives (Sec Dept. Advisor)</td>
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</table>

Group Requirements +

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Select three credits from EACH group—I thru IV</td>
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<tr>
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</tr>
<tr>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
<td></td>
</tr>
<tr>
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Total credits: 64

Group Requirements +

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</table>
V. Mathematics and Science
   Biological Science
   Mathematics and Computer Science
   Physical Science

VI. From Groups II, III and IV

+ All credits required from groups I, II, III & IV must be in Basic Courses.
Departmental requirements may be used to satisfy groups I-V requirements.
* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.
* Consultation with the Department Advisor is required.
** This program is within the Speech & Theatre Department.
A.A.S. DEGREE PROGRAMS

Course Descriptions

Business Career Programs

Accounting
Requirements, page 81
Course Descriptions, page 129

Business Administration
Requirements, page 83
Course Descriptions, page 133

Data Processing (Computer Programming)
Requirements, page 84
Course Descriptions, page 183

Retail Business Management
Requirements, page 91
Course Descriptions, page 138

Secretarial Science (Executive, Legal, Medical, School)
Requirements, page 93
Course Descriptions, page 217

Travel and Tourism
Requirements, page 95

Health and Social Service Career Programs

Early Childhood Education/Child Care
Requirements, page 85
Course Descriptions, page 113

Educational Associate
Requirements, page 86
Course Descriptions, page 115

Nursing
Requirements, page 87
Course Descriptions, page 199

Recreation Leadership
Requirements, page 89
Course Descriptions, page 173
THE ASSOCIATE IN APPLIED SCIENCE (A.A.S.) DEGREE

The Kingsborough A.A.S degree programs were specifically designed for students who wish to start a career on a semi-professional level immediately after graduating from the college. The essential liberal arts courses are included to equip students with knowledge, understanding and career flexibility permitting options to continue for further education at any time.

A student must earn at least a "C" grade (2.00 index) and have fulfilled all degree requirements to be certified for the degree.

CAREER PROGRAMS

Business:
- Accounting (with concentration in Tax Accounting)
- Business Administration
- Data Processing (Computer Programming)
- Retail Business Management (with concentration in Supermarket Management and Food Marketing)
- Secretarial Science (Executive, Legal, Medical and School Secretaries)
- Travel and Tourism

Health and Social Service:
- Early Childhood Education/Child Care
- Educational Associate
- Nursing
- Recreation Leadership
A.A.S. ACCOUNTING**  
Requirements for matriculants as of September 1981

Required Courses*  
(Remedial courses may be required in reading, writing and mathematics)  

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<th>Course</th>
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<tr>
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<td>0</td>
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<tr>
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<td>3</td>
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<tr>
<td>Corrective Speech (if required)</td>
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Department Requirements  

<table>
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<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>Fundamentals of Accounting I and II (ACC 11-12 pg. 129)</td>
<td>8</td>
</tr>
<tr>
<td>Intermediate Accounting I and II (ACC 21-22)</td>
<td>6</td>
</tr>
<tr>
<td>Cost Accounting I and II (ACC 31-32)</td>
<td>6</td>
</tr>
<tr>
<td>Federal Taxation (ACC 41)</td>
<td>4</td>
</tr>
<tr>
<td>Business Management and Organization (BA 11 pg. 133)</td>
<td>3</td>
</tr>
<tr>
<td>Business Law (BA 12)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Computer Concepts (BA 60)</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Economics (ECO 12 pg. 135)</td>
<td>3</td>
</tr>
<tr>
<td>Money and Banking (ECO 14)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Federal Taxation (ACC 42 highly recommended)</td>
<td>3 crs</td>
</tr>
<tr>
<td>New York Taxes (ACC 43 highly recommended)</td>
<td>3 crs</td>
</tr>
</tbody>
</table>

Total credits: 68

Concentration in Tax Accounting‡  

<table>
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<tr>
<td>Federal Taxation I and II (ACC 41-42)</td>
<td>7</td>
</tr>
<tr>
<td>New York Taxes (ACC 43)</td>
<td>3</td>
</tr>
<tr>
<td>Business Management and Organization (BA 11 pg. 133)</td>
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<td>Money and Banking (ECO 14)</td>
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</tbody>
</table>

‡Prior to preregistration or registration consultation with the Department Advisor is required.
Group Requirements + 12 credits

(Course selections, from groups I through IV, must be from three different groups+)

I. Performing and Visual Arts ......................................................... 3 credits
   (This group excludes Art and Music Studio courses, Theatre Production and Technique courses)
   Art
   Music
   Speech
   Theatre Arts

II. Language and Literature .......................................................... 3
    Foreign Language
    Literature
    Philosophy

III. Social Science ......................................................................... 3
    Economics (NOTE: ECO 12 and 14 MAY NOT BE USED to satisfy Group III.)
    History
    Political Science

IV. Behavioral Science .................................................................... 3
    Anthropology
    Psychology
    Sociology

V. Mathematics and Science ............................................................. 4 credits
    Biological Science
    Mathematics and Computer Science
    Physical Science

VI. Electives ................................................................................. -- credits

+ All credits required from groups I, II, III & IV must be in Basic Courses.

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

** This program is within the Business Department.
A.A.S. BUSINESS ADMINISTRATION**

Requirements for matriculants as of September 1981

Required Courses*  

(Remedial courses may be required in reading, writing and mathematics)

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<td>ENG 22</td>
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Department Requirements  

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</tr>
<tr>
<td>Business Management and Organization (BA 11 pg. 133)</td>
<td>3</td>
</tr>
<tr>
<td>Business Law (BA 12)</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing (BA 14)</td>
<td>3</td>
</tr>
<tr>
<td>Personnel Administration (BA 31)</td>
<td>3</td>
</tr>
<tr>
<td>Business Communications (BA 33)</td>
<td>3</td>
</tr>
<tr>
<td>Advertising: Theory and Practice (BA 52)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Computer Concepts (BA 60)</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Economics (ECO 12 pg. 135)</td>
<td>3</td>
</tr>
<tr>
<td>Money and Banking (ECO 14)</td>
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</table>

Total credits: 64

Group Requirements +  

(Course selections, from groups I through IV, must be from three different groups+)

<table>
<thead>
<tr>
<th>Group</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>I. Performing and Visual Arts</td>
<td>3</td>
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<tr>
<td>II. Language and Literature</td>
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<td>VI. Electives</td>
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</tbody>
</table>

+All credits required from groups I, II, III & IV must be in Basic Courses.

Departmental requirements may be used to satisfy groups I-V requirements.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

**This program is within the Business Department.
## A.A.S. DATA PROCESSING**  
*(Computer Programming)*

### Requirements for matriculants as of September 1981

| Required Courses* |  
|-------------------|---|---|
| (Remedial courses may be required in reading, writing and mathematics) |  
| ENG 03 &/or 04 (if required) | 0 | credits |
| ENG C1 (if required) | 0 | |
| ENG C2 or ENG 12 | 4 | |
| ENG 22 | 4 | |
| HPE 12 | 3 | |
| Corrective Speech (if required) | 0 | |
| MAT R1 &/or R2 proficiency | 0 | |

| Department Requirements |  
|-------------------------|---|---|
| Introduction to Data Processing (DP 11 pg. 183) | 4 | credits |
| Assembler Language Programming (DP 12) | 5 | |
| Cobol Programming (DP 31) | 5 | |
| Advanced Programming (DP 32) | 4 | |
| RPG Programming (DP 41) | 3 | |
| Survey of Mathematics (MAT 13 pg. 187) OR Analytic Geometry and Pre-Calculus Math (MAT 14) | 4 | |
| Fundamentals of Accounting I and II (ACC 11-12 pg. 129) | 8 | |

| Group Requirements+ |  
|---------------------|---|---|
| (Course selections, from groups I through IV, must be from three different groups+) | 12 | credits |
| I. Performing and Visual Arts | 3 | |
| (This group excludes Art and Music Studio courses, Theatre Production and Technique courses) |  
| Art |  
| Music |  
| Speech |  
| Theatre Arts |  
| II. Language and Literature | 3 | |
| Foreign Language |  
| Literature |  
| Philosophy |  
| III. Social Science | 3 | |
| Economics (NOTE: ECO 12 & 14 MAY NOT BE USED to satisfy Group III) |  
| History |  
| Political Science |  
| IV. Behavioral Science | 3 | |
| Anthropology |  
| Psychology |  
| Sociology |  
| V. Mathematics and Science | 4 | |
| Biological Science |  
| Mathematics and Computer Science |  
| Physical Science |  
| VI. Electives |  

*Totals: 64 credits*

+All credits required from groups I, II, III & IV must be in Basic Courses.

Departmental requirements may be used to satisfy groups I-V requirements.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

**This program is within the Mathematics & Computer Science Department.
**A.A.S. EARLY CHILDHOOD EDUCATION/CHILD CARE**

**Requirements for matriculants as of September 1981**

<table>
<thead>
<tr>
<th>Required Courses*</th>
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</thead>
<tbody>
<tr>
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<thead>
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<th>Department Requirements</th>
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<tr>
<td>General Psychology (PSY 11 pg. 108)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Human Growth and Development (PSY 32)</td>
<td>3 credits</td>
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<tr>
<td>Introduction to Sociology (SOC 31 pg. 110)</td>
<td>3 credits</td>
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<tr>
<td>Sociology of the Family (SOC 35)</td>
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<tr>
<td>Minority Groups in the U.S. (SOC 36)</td>
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<tr>
<td>Interdisciplinary Approach to Human Services (MH 20 pg. 113)</td>
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<tr>
<td>Curriculum in Education (ECE 21 pg. 113)</td>
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<tr>
<td>Art Workshop for Students in Education (ECE 22)</td>
<td>2 credits</td>
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<tr>
<td>Music and Movement Workshop for Students in Education (ECE 23)</td>
<td>2 credits</td>
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<tr>
<td>Supervised Instructional Experience in Education I, II and III (ECE 91, 92, 93)</td>
<td>9 credits</td>
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<tr>
<td>Psychological Disorders in Young Children (PSY 24 (ECE 24) recommended)</td>
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<table>
<thead>
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<tr>
<td>History</td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>IV. Behavioral Science</td>
<td>3 credits</td>
</tr>
<tr>
<td>Anthropology</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>V. Mathematics and Science</td>
<td>4 credits</td>
</tr>
<tr>
<td>Biological Science</td>
<td></td>
</tr>
<tr>
<td>Mathematics and Computer Science</td>
<td></td>
</tr>
<tr>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>VI. Electives</td>
<td>- credits</td>
</tr>
</tbody>
</table>

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

**This program is within the Behavioral Sciences and Human Services Department.**
A.A.S. EDUCATIONAL ASSOCIATE**
Requirements for matriculants as of September 1981

Required Courses* 
( Remedial courses may be required in reading, writing and mathematics)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
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Total credits: 64

Department Requirements 
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG C1 or ENG 12</td>
<td>3</td>
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<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>3</td>
</tr>
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Departmental requirements may be used to satisfy groups I-V requirements.

Group Requirements+

<table>
<thead>
<tr>
<th>Group</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Performing and Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>II. Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td>III. Social Science</td>
<td>3</td>
</tr>
<tr>
<td>IV. Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>V. Mathematics and Science</td>
<td>4</td>
</tr>
<tr>
<td>VI. Electives</td>
<td></td>
</tr>
</tbody>
</table>

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.
**This program is within the Behavioral Sciences & Human Services Department.
A.A.S. NURSING

Requirements for matriculants as of September 1981

Nursing Course Descriptions pg. 201

Students in the Pre-Nursing Sequence must complete the five semester sequence in the following order.

First Semester
- Applied Physical Sciences for Allied Health Careers (SCI 25 pg. 215) ........................................ 3 credits
- General Psychology (PSY 11 pg. 108) .......................................................................................... 3
- Human Anatomy & Physiology I (BIO 11 pg. 121) .................................................................... 4
- English (ENG 12 or ENG C2 pg. 146) ......................................................................................... 4

Second Semester
- Human Anatomy & Physiology II (BIO 12 pg. 121) ................................................................. 4
- Human Growth and Development (PSY 32 pg. 108) ............................................................... 3
- Drug Calculations in Nursing (NUR 17) ....................................................................................... 1
- Fundamentals of Nursing (NUR 18) ......................................................................................... 7

Third Semester
- Microbiology in Health and Disease (BIO 51 pg. 122) .......................................................... 4
- Nursing the Ill Adult I (NUR 21) ................................................................................................. 9

Fourth Semester
- Varieties of Expression (ENG 22 pg. 146) .................................................................................. 4
- Nursing the Emotionally Ill I & II (NUR 20, 22) .................................................................... 9

Fifth Semester
- Introduction to Sociology (SOC 31 pg. 110) ................................................................................. 3
- Family-Centered Maternity Nursing (NUR 19) .......................................................................... 4
- Nursing of Children (NUR 23) ................................................................................................... 5
- Issues in Nursing (NUR 24) ....................................................................................................... 1

Students requiring remediation based upon College placement test scores may be required to take any or all of the following prior to taking the Pre-Nursing Sequence.

- Preparatory Biology (BIO 10)
- Remedial Math (R1 &/or R2)
- English Skills (ENG 03, 04, or C1)
Those students (not more than 5% of each class) who complete the degree in two years will take the course sequence in the following order.

First Semester
- Applied Physical Sciences for Allied Health Careers (SCI 25 pg. 215) ........................................ 3 credits
- General Psychology (PSY 11 pg. 108) .......................................................... 3
- Human Anatomy & Physiology I (BIO 11 pg. 121) ........................................... 4
- Drug Calculations in Nursing (NUR 17) .......................................................... 1
- Fundamentals of Nursing (NUR 18) .......................................................... 7

Winter or Summer Module†
- Human Anatomy & Physiology II (BIO 12 pg. 121) ........................................ 4

Second Semester
- Microbiology in Health and Disease (BIO 51 pg. 122) ........................................ 4
- English (ENG 12 or ENG C2 pg. 146) .......................................................... 4
- Nursing the Ill Adult I (NUR 21) .......................................................... 9

Third Semester
- Human Growth and Development (PSY 32 pg. 108) ........................................ 3
- Introduction to Sociology (SOC 31 pg. 110) ........................................... 3
- Nursing the Emotionally Ill I & II (NUR 20, 22) .................................... 9

Fourth Semester
- Varieties of Expression (ENG 22 pg. 146) ........................................... 4
- Family-Centered Maternity Nursing (NUR 19) ........................................... 4
- Nursing of Children (NUR 23) .......................................................... 5
- Issues in Nursing (NUR 24) .......................................................... 1

† Students may elect to take required courses other than nursing courses during the Winter and Summer Modules.

* Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

** This program is within the Nursing Department.
A.A.S. RECREATION LEADERSHIP
Requirements for matriculants as of September 1981

Required Courses

(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
</tr>
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Department Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Recreation (REC 11 pg. 173)</td>
<td>3</td>
</tr>
<tr>
<td>Recreation Leadership Principles (REC 12)</td>
<td>3</td>
</tr>
<tr>
<td>Social Recreation (REC 13)</td>
<td>3</td>
</tr>
<tr>
<td>Outdoor Recreation (REC 14)</td>
<td>2</td>
</tr>
<tr>
<td>Methods and Materials for Teaching Folk and Square Dance (REC 15)</td>
<td>2</td>
</tr>
<tr>
<td>Recreation for Special Populations (REC 31)</td>
<td>3</td>
</tr>
<tr>
<td>Organization of a Recreation Program (REC 32)</td>
<td>3</td>
</tr>
<tr>
<td>Methods and Materials in Arts and Crafts (REC 34)</td>
<td>3</td>
</tr>
<tr>
<td>Field Experience in Recreation Leadership I and II (REC 91, 92)</td>
<td>6</td>
</tr>
<tr>
<td>First Aid &amp; Personal Safety (HE 35 pg. 174)</td>
<td>2</td>
</tr>
<tr>
<td>General Psychology (PSY 11 pg. 108)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Sociology (SOC 31 pg. 110)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Modern Concepts of Biology (SCI 33 pg. 125) OR</td>
<td></td>
</tr>
<tr>
<td>Introduction to Modern Chemistry (SCI 34)</td>
<td>4</td>
</tr>
<tr>
<td>History and Philosophy of Science I and II (SCI 31-32)</td>
<td>4</td>
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<tr>
<td>Spanish for Students in Career Programs† (SPA 40 and 82 pg. 164)</td>
<td>3</td>
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</tbody>
</table>

Group Requirements

(Course selections from groups I through IV must be from three different groups +)

<table>
<thead>
<tr>
<th>Group</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Performing and Visual Arts (This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td>Theatre Arts</td>
<td></td>
</tr>
<tr>
<td>II. Language and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>III. Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>IV. Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology</td>
<td></td>
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<tr>
<td>Psychology</td>
<td></td>
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<tr>
<td>Sociology</td>
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</table>

Total credits: 64

7 to 11 credits

47 credits

12 credits

89
V. Mathematics and Science
   Biological Science
   Mathematics and Computer Science
   Physical Science

VI. Electives

+ All credits required from groups I, II, III & IV must be in Basic Courses.
  Departmental requirements may be used to satisfy groups I-V requirements.
  * Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.
  # Consultation with the Department Advisor is required.
  ** This program is within the Health, Physical Education and Recreation Department.

| Special articulation agreements with Lehman College make it possible for KCC graduates interested in this field to continue to study ON the KCC Campus to earn the Bachelor of Science Degree from Lehman. | 4 credits |
## A.A.S. RETAIL BUSINESS MANAGEMENT

Requirements for matriculants as of September 1981

### Required Courses*

(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
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</table>

### Department Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Accounting I and II (ACC 11, 12 pg. 129)</td>
<td>8</td>
</tr>
<tr>
<td>Business Management and Organization (BA 11 pg. 133)</td>
<td>3</td>
</tr>
<tr>
<td>Business Law (BA 12)</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing (BA 14)</td>
<td>3</td>
</tr>
<tr>
<td>Elements of Retail Business Management (RBM 31 pg. 138)</td>
<td>3</td>
</tr>
<tr>
<td>Salesmanship (RBM 33)</td>
<td>3</td>
</tr>
<tr>
<td>Fashion Buying and Merchandising (RBM 34)</td>
<td>3</td>
</tr>
<tr>
<td>Merchandise Information Analysis (RBM 35)</td>
<td>4</td>
</tr>
<tr>
<td>Data Processing for Retailers (RBM 51) OR, Introduction to Computer Concepts (BA 60)</td>
<td>3</td>
</tr>
<tr>
<td>Field Experience-Retail Business Management (RBM 92)</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Economics (ECO 12 pg. 135)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total credits: 68

### Supermarket Management Concentration†

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fundamentals of Accounting I and II (ACC 11, 12 pg. 129)</td>
<td>8</td>
</tr>
<tr>
<td>Business Management and Organization (BA 11 pg. 133)</td>
<td>3</td>
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<tr>
<td>Supermarket Personnel Performance Management (RBM 15 pg. 141)</td>
<td>3</td>
</tr>
<tr>
<td>Supermarket Sales Production (RBM 16)</td>
<td>3</td>
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<tr>
<td>Salesmanship (RBM 33)</td>
<td>3</td>
</tr>
<tr>
<td>Field Experience-Retail Business Management (RBM 92)</td>
<td>3</td>
</tr>
<tr>
<td>Data Processing for Retailers (RBM 51) OR, Introduction to Computer Concepts (BA 60)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Food Marketing (FM 11 pg. 140)</td>
<td>3</td>
</tr>
<tr>
<td>Elements of Food Retailing (FM 12)</td>
<td>3</td>
</tr>
<tr>
<td>Supermarket Operation and Management (FM 13, 14)</td>
<td>6</td>
</tr>
<tr>
<td>Fundamentals of Economics (ECO 12 pg. 135)</td>
<td>3</td>
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</tbody>
</table>

### Total credits: 41
### Group Requirements +

(Course selections, from groups I through IV, must be from three different groups+)

<table>
<thead>
<tr>
<th>Group</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Performing and Visual Arts</td>
</tr>
<tr>
<td></td>
<td>(This group excludes Art and Music Studio courses, Theatre Production and Technique courses)</td>
</tr>
<tr>
<td></td>
<td>Art</td>
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<tr>
<td></td>
<td>Music</td>
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<td></td>
<td>Speech</td>
</tr>
<tr>
<td></td>
<td>Theatre Arts</td>
</tr>
<tr>
<td>II.</td>
<td>Language and Literature</td>
</tr>
<tr>
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<td>Foreign Language</td>
</tr>
<tr>
<td></td>
<td>Literature</td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
</tr>
<tr>
<td>III.</td>
<td>Social Science</td>
</tr>
<tr>
<td></td>
<td>Economics (NOTE: ECO 12 &amp; 14 MAY NOT BE USED to satisfy Group III requirements)</td>
</tr>
<tr>
<td></td>
<td>History</td>
</tr>
<tr>
<td></td>
<td>Political Science</td>
</tr>
<tr>
<td>IV.</td>
<td>Behavioral Science</td>
</tr>
<tr>
<td></td>
<td>Anthropology</td>
</tr>
<tr>
<td></td>
<td>Psychology</td>
</tr>
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<td></td>
<td>Sociology</td>
</tr>
<tr>
<td>V.</td>
<td>Mathematics and Science</td>
</tr>
<tr>
<td></td>
<td>Biological Science</td>
</tr>
<tr>
<td></td>
<td>Mathematics and Computer Science</td>
</tr>
<tr>
<td></td>
<td>Physical Science</td>
</tr>
<tr>
<td>VI.</td>
<td>Electives</td>
</tr>
</tbody>
</table>

*All credits required from groups I, II, III & IV must be in Basic Courses.

Departmental requirements may be used to satisfy groups I-V requirements.

*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

*Consultation with the Department Advisor is required.

**This program is within the Business Department.
A.A.S. SECRETARIAL SCIENCE**
Required courses for matriculants as of September 1981

Total credits: 64

<table>
<thead>
<tr>
<th>Required Courses*</th>
<th>7 to 11 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Remedial courses may be required in reading, writing and mathematics)</td>
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</tr>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0 credits</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0 credits</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENG 22</td>
<td>4 credits</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3 credits</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0 credits</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0 credits</td>
</tr>
</tbody>
</table>

Department requirements (Course descriptions pg. 219)

ALL Secretarial Science Majors must take:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Typewriting (SEC 11)</td>
<td>2 credits</td>
</tr>
<tr>
<td>Intermediate Typewriting (SEC 12)</td>
<td>2 credits</td>
</tr>
<tr>
<td>Elementary Shorthand (SEC 13, 14, 15)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Intermediate Shorthand (SEC 16, 17, 18)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Advanced Shorthand and Transcription I (SEC 31)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Production Typewriting (SEC 33)</td>
<td>2 credits</td>
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<tr>
<td>Business Communications (SEC 37)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Field Experience (SEC 92)</td>
<td>3 credits</td>
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</table>

PLUS—FOR CONCENTRATIONS IN

Executive

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Advanced Stenography and Transcription II (SEC 32)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Secretarial Practice (SEC 34)</td>
<td>3 credits</td>
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</table>

Legal

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secretarial Practice (SEC 34)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Legal Shorthand and Procedures (SEC 51)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Legal Shorthand and Transcription (SEC 52)</td>
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</table>

Medical

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Biology (4 credit Lab course pg. 121)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Medical Secretary Practice (SEC 67, 68)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Medical Dictation and Terminology (SEC 69, 70)</td>
<td>7 credits</td>
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School

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Stenography and Transcription II (SEC 32)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Secretarial Practice (SEC 34)</td>
<td>3 credits</td>
</tr>
<tr>
<td>School Secretary I and II (SEC 53, 54)</td>
<td>4 credits</td>
</tr>
<tr>
<td>School Records and Accounts (SEC 65)</td>
<td>2 credits</td>
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</table>

Word Processing Concentration

<table>
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<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Basic Word Processing</td>
<td>3 credits</td>
</tr>
<tr>
<td>Advanced Word Processing</td>
<td>3 credits</td>
</tr>
<tr>
<td>Machine Transcription</td>
<td>3 credits</td>
</tr>
<tr>
<td>Field Experience (SEC 92)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Data Processing for Secretarial Majors (CP 29 pg. 179 recommended)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Office Systems and Procedures (recommended)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>
Group Requirements +

(Course selections, from groups I through IV, must be from three different groups+)

I. Performing and Visual Arts ................................................................. 3 credits
   (This group excludes Art and Music Studio courses,
   Theatre Production and Technique courses)
   Art
   Music
   Speech
   Theatre Arts

II. Language and Literature ................................................................. 3
    Foreign Language
    Literature
    Philosophy

III. Social Science ................................................................................ 3
    Economics
    History
    Political Science

IV. Behavioral Science ........................................................................ 3
    Anthropology
    Psychology
    Sociology

V. Mathematics and Science ................................................................ 4 credits
    Biological Science
    Mathematics and Computer Science
    Physical Science

VI. Electives .......................................................................................... credits

†SEC 11 and 13, 14 or 15 are required for students entering without one year of typing and shorthand.
SEC 12, 13, 14, 15, 16, 17 and 18 may be waived.
+ All credits required from groups I, II, III & IV must be in Basic Courses.
   Departmental requirements may be used to satisfy groups I-V requirements.
   * Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and
     Mathematics Placement Examinations.
   †Consultation with the Department Advisor is required.
   **This program is within the Secretarial Science Department.
A.A.S. TRAVEL AND TOURISM**
Requirements for matriculants as of September 1981

Required Courses*  
(Remedial courses may be required in reading, writing and mathematics)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 03 &amp;/or 04 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C1 (if required)</td>
<td>0</td>
</tr>
<tr>
<td>ENG C2 or ENG 12</td>
<td>4</td>
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<tr>
<td>ENG 22</td>
<td>4</td>
</tr>
<tr>
<td>HPE 12</td>
<td>3</td>
</tr>
<tr>
<td>Corrective Speech (if required)</td>
<td>0</td>
</tr>
<tr>
<td>MAT R1 &amp;/or R2 proficiency</td>
<td>0</td>
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Department Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Tourism</td>
<td>3</td>
</tr>
<tr>
<td>Geography of Tourism</td>
<td>3</td>
</tr>
<tr>
<td>Internship in Travel &amp; Tourism</td>
<td>3</td>
</tr>
<tr>
<td>Contracts &amp; Lodging Law</td>
<td>4</td>
</tr>
<tr>
<td>Fundamentals of Accounting (ACC 11 pg. 129)</td>
<td>4</td>
</tr>
<tr>
<td>Business Management and Organization (BA 11 pg. 133)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Computer Concepts (BA 60)</td>
<td>3</td>
</tr>
<tr>
<td>PLUS Choice from following A or B for</td>
<td>6</td>
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<tr>
<td>A) Agency Operation &amp; Management</td>
<td>3 crs</td>
</tr>
<tr>
<td>Travel Agent &amp; Telephone</td>
<td>3 crs</td>
</tr>
<tr>
<td>Sales-Reservation</td>
<td>3 crs</td>
</tr>
<tr>
<td>B) Introduction to Hospitality Industry</td>
<td>3 crs</td>
</tr>
<tr>
<td>Front Office Management &amp; Systems</td>
<td>3 crs</td>
</tr>
<tr>
<td>Hotel Accounting</td>
<td>3 crs</td>
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</tbody>
</table>

Total credits: 65

7 to 11 credits
**Group Requirements +**

12 credits

**The Americas**
- Readings in Spanish American Literature in Translation (SPA 31 pg. 164) ....... 3 credits
- Spanish for Students in Career Programs (SPA 40 and 82) ................. 3
- Anthropology of the Americas ............................................. 3

Choice
- Latin American History (HIS 57 pg. 233) .... 3 crs
- American Civilization 1 (HIS 11) ......... 3 crs

**Europe**
- Survey of Art History: Ancient to Renaissance Art (ART 33 pg. 101) ....... 3 credits
- Italian Literature in Translation (IT 30 pg. 161) .......................... 3
- or, Italian for Students in Career Programs .................................. 3
- History and Civilization of France (FR 55 pg. 156) .......................... 3
- French for Students in Career Programs .................................... 3

Choice from:
- European History from Napoleon to Hitler (HIS 31 pg. 232) .... 3 crs
- Western Civilization from the Middle Ages to the 18th Century (HIS 52) .......................... 3 crs

**The Orient**
- Cultural Anthropology of Asia ............................................ 3 credits
- Japanese for Students in Career Programs .................................. 3
- or, Chinese for Students in Career Programs ................................. 3
- Modern China (HIS 32 pg. 232) .............................. 3
- The Art of Asia ......................................................... 3

**Mathematics and Science**

- Biological Science
- Mathematics and Computer Science
- Physical Science

Electives

4 credits

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*Successful completion of the CUNY Assessment Tests with passing scores on the Reading, Writing, and Mathematics Placement Examinations.

† Consultation with the Department Advisor is required.

** This program is within the Business Department
ART

+ART 31 THE VISUAL EXPERIENCE  
3 crs. 3 hrs.
Students are introduced to the plastic arts, past and present, as they express personal and societal attitudes about nature, environment, and art itself.

+ART 33 SURVEY OF ART HISTORY: FROM ANCIENT TO RENAISSANCE ART  
Fall  
3 crs. 3 hrs.
This historical view of Western Art History is designed to survey, in chronological sequence, the evolution of style and form in the major arts from pre-history through the Renaissance. Required of Art majors in first semester. See Department Advisor.

ART 34 SURVEY OF ART HISTORY: FROM RENAISSANCE TO 19th CENTURY ART  
Spring  
3 crs. 3 hrs.
This course continues the study of Western Art from the Renaissance to the mid-nineteenth century, noting changes and growth in style and form.

+ART 35 MODERN ART I  
Fall  
3 crs. 3 hrs.
This study introduces students to the early development of Modern Art. It provides an insight into the aesthetic climate in late nineteenth century France and traces the emergence of various styles and artists through the first decades of the twentieth century. Personal research and New York City museum visits are integral parts of the course.

ART 36 MODERN ART II  
Spring  
3 crs. 3 hrs.
International and American trends in painting, sculpture and architecture in the second part of the twentieth century leading up to current directions in the visual arts are explored. The interrelationship of art and contemporary culture is discussed in slide lectures supplemented by personal research and visits to New York City art museums and galleries.

+ART 37 AFRICAN AND PRIMITIVE ART  
3 crs. 3 hrs.
The structural and stylistic forms of African art are studied, as is the art of other notable primitive cultures, with emphasis placed on the cultural basis for those forms.

+ART 38 RENAISSANCE ART  
3 crs. 3 hrs.
The history of the development of the art from the Gothic to the Humanist movement is studied. The Renaissance is integrated into the course content with an analysis of the new conceptions of nature, history and man in Italy.

+Basic Course
ART 51 PHOTOGRAPHY I
3 crs. 4 hrs.
This introductory course to the rudimentary ideas and techniques of photography considers camera, film, development process and artistic possibilities realized with the photographic print.

ART 52 PHOTOGRAPHY II
3 crs. 4 hrs.
In this introduction to Professionalism in Photography course, students are taught to understand the place photography has in our society and how to realize one's potential through photography in that society. Problems deal with an analysis of professional standards and how to mold personal work to attain those standards.
Prerequisite: ART 51

ART 55 DESIGN I
3 crs. 4 hrs.
Introduction to the principles of design. Study of line, value, color, shape, and texture in two-dimensional composition, using basic materials and techniques. Supplies ground-work necessary to all Studio courses.
Required of Art Majors in first semester. See Department Advisor.

ART 56 DESIGN II
3 crs. 4 hrs.
Prerequisite: ART 55

ART 57 DRAWING I
3 crs. 4 hrs.
This course introduces students to the basic concepts of drawing. In order to cultivate the ability to see, create form, and enjoy visual experiences, students draw from still life and live models.
Required of Art majors in first semester. See Department Advisor.

ART 58 DRAWING II
3 crs. 4 hrs.
In this continued study of various drawing media, students use the figure model to explore traditional and experimental drawing techniques.
Prerequisite: ART 57 or permission of the Department

ART 59 PAINTING I
3 crs. 4 hrs.
This studio course in oil and acrylic painting serves as an aesthetic foundation for solutions to expressive problems of representational and abstract form, color and space.

ART 60 PAINTING II
4 crs. 6 hrs.
This continuation of ART 59 gives students an opportunity for advanced work in painting, self-expression and creativity.
Prerequisite: ART 59 or permission of the Department

+ Basic Course
+ART 61 SCULPTURE I

Students are given the opportunity to study and work in a studio setting. Emphasis is placed on the techniques and aesthetics of modern sculptural concepts.

ART 62 SCULPTURE II

More advanced students in the field of creative sculpture are able to explore new techniques including welding and casting.

Prerequisite: ART 61 or permission of the Department

+ART 63 CERAMICS I (BEGINNING CERAMICS)

This course was designed to introduce students to problems in ceramic design, materials and techniques. Emphasis is on the use of the potter's wheel, high-fire ware production, glazing and firing.

ART 64 CERAMICS II (INTERMEDIATE CERAMICS)

Students are involved with solutions to the intermediate problems in ceramic design. Emphasis is on further use of the potter's wheel, high-fire ware production, glazing and firing of intricate designs and pieces.

Prerequisite: ART 63

ART 65 MIXED MEDIA—MULTI-MEDIA OPEN STUDIO

This course enables students to make use of combinations of drawing, painting and sculptural techniques, new materials, light, sound and phonetic processes.

ART 66 PRINTMAKING

This studio course introduces the techniques of intaglio and relief printmaking. Students learn to expand upon drawing experiences by refining visual expression into terms of the original print.

Prerequisite: ART 55, 57, or permission of the Department

ART 81 INDEPENDENT STUDY

Independent study of Art is developed individually between student and faculty member and must be approved by the Department.

ART 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

A.S. Degree

FINE ARTS

Requirements—Page 66

+Basic Course
EDU 32 HUMAN GROWTH AND DEVELOPMENT
(also listed as PSY 32) 3 crs. 3 hrs.
This course focuses on human development from infancy through childhood, adolescence and adulthood. It considers intellectual growth, personal and social adjustment, the relationship between physical and mental development and typical problems in various stages of the life-cycle.
Prerequisite: PSY 11

+EDU 33 EDUCATION IN MODERN SOCIETY 3 crs. 3 hrs.
The study of education in relation to contemporary society. Cultural forces and influences as well as institutions helping to shape education are analyzed in the light of resulting issues and challenges. The various roles of the school, its personnel and community are related both to accepted theories and current practices.

+EDU 37 HISTORICAL DEVELOPMENT OF EDUCATION IN THE UNITED STATES 3 crs. 3 hrs.
The course traces the history, growth and development of education in the United States from colonial times to the present. Emphasis is placed on the manner in which an institution responded to the changing social, political and economic currents of the times. The role of education as a major factor in the development of the American character is stressed.

+EDU 40 ORIENTATION FOR STUDENTS WITH SPECIAL BACKGROUNDS 1 cr. 1 hr.
The aim in this course is to familiarize students with American institutions and society, especially as they exist in New York City. The college community, interethnic relations, services such as consumer information, recreational activities, and the cultural life of New York City are studied. Guest speakers address some sessions.

EDU 81 INDEPENDENT STUDY 1-3 crs. 1-3 hrs.
Independent study of Education is developed individually between student and faculty member and must be approved by the Department.

EDU 82 1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
PSYCHOLOGY

PSY 11 GENERAL PSYCHOLOGY
3 crs. 3 hrs.
This general course introduces students to the nature of psychology, its fields and divisions, including individual differences, learning, motivation, perception, and personality.

PSY 12 PRINCIPLES OF PARAPSYCHOLOGY
3 crs. 3 hrs.
This general course introduces students to the interdisciplinary nature of parapsychology, its fields and sub-divisions, such as telepathy, precognition, psychokinesis and clairvoyance. Current theoretical and experimental research will be reviewed.

PSY 14 EXPERIMENTAL ANALYSIS OF BEHAVIOR
3 crs. 3 hrs.
This laboratory course deals with the experimental analysis of human and animal behavior. Practical applications and ethical implications of the scientific study of man are included.
Prerequisite: PSY 11

PSY 15 PSYCHOLOGY OF PERSONAL ADJUSTMENT
3 crs. 3 hrs.
The course focuses on the application of psychological principles to problems of personal and social adjustment. Workshop activities such as discussion groups, role-playing and self-awareness exercises are stressed.
Prerequisite: PSY 11

PSY 24 PSYCHOLOGICAL DISORDERS IN YOUNG CHILDREN
3 crs. 3 hrs.
(Also listed as ECE 24)
Students learn about psychological disorders in young children and the practices required to deal with them in early childhood settings. Included will be children who are mentally retarded, gifted, deaf, blind, orthopedic or speech handicapped, or minimally brain-damaged. Causes, diagnostic, therapeutic and educational procedures and teaching methods are reviewed for each category based upon principles learned in introductory psychology courses.
Prerequisites: PSY 32, ECE 21, 91, or permission of the Department

PSY 32 HUMAN GROWTH AND DEVELOPMENT
3 crs. 3 hrs.
(Also listed as EDU 32)
This course focuses on human development from infancy through childhood, adolescence, and adulthood. It considers intellectual growth, personal and social adjustment, the relationship between physical and mental development, and typical problems in various stages of the life-cycle.
Prerequisite: PSY 11

PSY 33 SOCIAL PSYCHOLOGY
3 crs. 3 hrs.
The basic concepts and selected research findings in social psychology are examined. Emphasis is placed on the process of communication, group interaction, leadership, interpersonal perception, attitude and opinion formation.
Prerequisite: PSY 11

+ Basic Course
PSY 34 PSYCHOLOGY OF PERSONALITY

3 crs. 3 hrs.

In this course various personality theories are examined in order to demonstrate the variety of ways with which to deal with basic personality problems.

Prerequisite: PSY 11

PSY 35 EDUCATIONAL PSYCHOLOGY

3 crs. 3 hrs.

Current scientific theory and research relating to formal learning environments are considered in this course. Areas studied include: processes of human learning; concept-formation; language development; problems-solving and other cognitive abilities; characteristic of learners and teachers affecting acquisition and retention; new approaches to motivate and direct learning; new approaches to organizing and transmitting information and knowledge.

Prerequisite: PSY 11

PSY 36 PSYCHOLOGY OF BEHAVIOR PATHOLOGY

3 crs. 3 hrs.

Students examine the concepts of normality and abnormality, and review significant theoretical contributions to personality disorganization. Historical factors and current trends in the field of Mental Health are reviewed. Causes of behavioral disorders are discussed in terms of the impact of social, cultural, genetic and other factors. A survey of treatment methods is included.

Prerequisite: PSY 11

PSY 37 PSYCHOLOGY OF WOMEN

3 crs. 3 hrs.

A study of psychological factors specifically related to the female, including the traditional models of femininity in such areas as social roles, occupational roles, and sex roles. The approach of the course is analytical, beginning with denotative and connotative definitions of terms, analyzing traditional and new female models and identities and some of the problems these models present in personality integration. Finally, some of the recent psychological research on women is reviewed. Personal experiences of male and female students will be utilized to help support, or refute, theories presented.

Prerequisite: PSY 11

PSY 52 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

3 crs. 3 hrs.

This course draws upon psychological and sociological principles relevant to the work environment of an organization. Concepts such as motivation, leadership, attitudes, testing and test discrimination, morale and organization climate, mental health and growth in the work world, and the problems surrounding selection decisions are examined. Students experience some aspects of applied research during the term.

Prerequisite: PSY 11

PSY 81 INDEPENDENT STUDY

1-3 crs. 1-3 hrs.

Independent study of Psychology is developed individually between student and faculty member and must be approved by the Department.

PSY 82

1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
SOCIOLOGY

+SOC 31 INTRODUCTION TO SOCIOLOGY 3 crs. 3 hrs.

In this systematic study of the social dimensions of human existence, primary stress is on social structure and culture as governing factors in the lives of individuals. Students consider the basic concepts of sociology, major theoretical positions and findings. The course is designed to meet the needs of those students who want an introduction to the field as well as for those who wish to undertake further study.

SOC 32 URBAN SOCIOLOGY 3 crs. 3 hrs.

Students in this course are given an overview of the metropolis in order to better understand the effects of urbanization. The inherent contradictions in urban living are reviewed in terms of the multiplicity of problems that currently challenge the city.
Prerequisite: SOC 31

SOC 33 SOCIAL PROBLEMS: INSTITUTIONS IN CRISIS 3 crs. 3 hrs.

An investigation of the current social ills facing American society is conducted during this course. Areas of analysis include the major conflicts and social changes that challenge the institutions in the community. Each problem is approached as a crisis facing a particular institution. The appropriate changes in policy are suggested as solutions needed to resolve the problems.
Prerequisite: SOC 31

SOC 35 SOCIOLOGY OF THE FAMILY 3 crs. 3 hrs.

The sociology of the family is reviewed in this course. Areas of study include: definitions; pattern variations; developmental theories; specialized functions and their effect on socialization, courtship, marriage, divorce and the life cycle.
Prerequisite: SOC 31

SOC 36 MINORITY GROUPS IN THE UNITED STATES 3 crs. 3 hrs.

Students study selected minority groups in American society. Among the topics discussed are: the nature of prejudice and discrimination, the social meaning of "minority," annihilation, assimilation, competition, conflict, exploitation, social and cultural change, past and present trends and developments.
Prerequisites: SOC 31 and Upper Freshman standing

+ SOC 37 INTRODUCTION TO ANTHROPOLOGY 3 crs. 3 hrs.

The aim of the course is to approach a variety of aspects of the human condition, such as evolution, the diversity of primitive societies, and to compare the relationships of anthropological concepts with our knowledge of our own civilization and its history.

+Basic Course
SOC 40 ISRAELI SOCIETY

This course provides an integrated exposition and analysis of the dominant social, political and economic aspects of Israeli society. It is designed to give students an understanding of the dynamics of the component elements of that society, and an insight into the ideas and goals of its people.

Prerequisite: SOC 31 or 37

SOC 81 INDEPENDENT STUDY

Independent study in Sociology is developed individually between student and faculty member and must be approved by the Department.

SOC 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
EARLY CHILDHOOD EDUCATION/CHILD CARE PROGRAM

Because of the special nature of the Early Childhood Education/Child Care Program, students will be evaluated at the conclusion of each semester to determine whether it is advisable for them to continue in the Program. Students enrolled in the Program are required to submit a report of a Tuberculin Skin Test which must be renewed every year thereafter. Positive results require that a Chest X-Ray be taken within a week to ten days.

+ MH 20 INTERDISCIPLINARY APPROACH TO HUMAN SERVICES 3 hrs.

A study of the effect of society, culture and institutions on the developmental needs of children. Students will investigate past and present solutions in the context of society's conflicting and changing values and goals. The students will visit and evaluate schools and related institutions.

ECE 21 CURRICULUM IN EDUCATION 3 hrs.

The objectives of the programs in education are considered, including the selection, guidance and evaluation of learning experiences. Specific emphasis is placed on methods and materials in language arts and story-telling.

Prerequisite: MH 20

ECE 22 ART WORKSHOP FOR STUDENTS IN EDUCATION 2 hrs.

A variety of art media are explored so that students understand principles, methods, planning and classroom organization necessary to achieve the curriculum and behavioral objectives of programs in education.

Prerequisite: ECE 21

ECE 23 MUSIC AND MOVEMENT WORKSHOP FOR STUDENTS IN EDUCATION 2 hrs.

Students explore musical literature, methods and techniques for utilizing music and dance in order to achieve the curriculum and behavioral objectives of programs in education.

Prerequisite: ECE 22

ECE 24 PSYCHOLOGICAL DISORDERS IN YOUNG CHILDREN (also listed as PSY 24) 3 hrs.

Students learn about psychological disorders in young children and the practices required to deal with them in early childhood settings. Included will be children who are mentally retarded, gifted, deaf, blind, orthopedic or speech handicapped, or minimally brain-damaged. Causes, diagnostic, therapeutic and educational procedures and teaching methods are reviewed for each category based upon principles learned in introductory psychology courses.

Prerequisites: ECE 21, 91, PSY 32 or permission of the Department

+ Basic Course
FIELD COURSES

ECE 91 SUPERVISED INSTRUCTIONAL EXPERIENCE IN EDUCATION I  
3 crs. 6 hrs.

Students are assigned to work with children in a specific education center such as a Day Care Center, Nursery School, Kindergarten, School for Exceptional Children or Residential Institution. During the course, students concentrate on objective observations of child behavior in order to help develop skills in understanding children and their learning needs. For ECE majors only.

Prerequisite: MH 20
Corequisite: ECE 21

ECE 92 SUPERVISED INSTRUCTIONAL EXPERIENCE IN EDUCATION II  
3 crs. 6 hrs.

Students assume an assigned measure of responsibility and work directly with children in the selected agency. Careful planning for the formulation and the development of suitable children’s programs guide students toward a professional role. For ECE majors only.

Prerequisite: ECE 91
Corequisite: ECE 22

ECE 93 SUPERVISED INSTRUCTIONAL EXPERIENCE IN EDUCATION III  
3 crs. 6 hrs.

In this advanced course, students in the program are assigned increasing responsibility within the limits of the agency structure. Leadership of group activities is included. For ECE majors only.

Prerequisite: ECE 92
Corequisite: ECE 23

A.A.S. Degree

EARLY CHILDHOOD EDUCATION/CHILD CARE

Requirements—Page 85
EDUCATIONAL ASSOCIATE PROGRAM

+ EDU 33 EDUCATION IN MODERN SOCIETY 3 crs. 3 hrs.
The study of education in relation to contemporary society. Cultural forces and influences as well as institutions helping to shape education are analyzed in the light of resulting issues and challenges. The various roles of the school, its personnel and community are related both to accepted theories and current practices.

EDU 34 SEMINAR AND PRACTICUM IN EDUCATION AND THE BEHAVIORAL SCIENCES 4 crs. 12 hrs.
The role of the paraprofessional in education is examined in this course. Selected aspects of educational foundations, sociology and child psychology provide a base from which the paraprofessional's relationships to students, peers, teachers and supervisors are studied. Ten hours of field work a week is required.
For Educational Associate Program students only.
Prerequisites: EDU 33, PSY 11

EDU 35 SEMINAR AND PRACTICUM IN EDUCATION AND COMMUNICATION SKILLS 4 crs. 12 hrs.
Students explore the nature of task-oriented and pupil-oriented activities in relation to communication skills. Students learn how to help pupils improve and develop special written and spoken communication skills. Ten hours of field work a week is required.
For Educational Associate Program students only.
Prerequisites: EDU 34, 2 semesters of English

EDU 36 SEMINAR AND PRACTICUM IN EDUCATION AND ART FORMS 4 crs. 12 hrs.
Students in this course are assisted to develop understanding of the functions of art activities for the young child. The goal is to encourage a child's creative thinking by relating art forms to the youngster's world. Ten hours of field work a week is required.
For Educational Associate Program students only.
Prerequisites: EDU 35, MUS 31, ART 31

+ MAT 9 UNDERSTANDING MATHEMATICS 4 crs. 4 hrs.
This course is primarily designed for students in the Educational Associate Program (see page 186)

A.A.S. Degree
EDUCATIONAL ASSOCIATE
Requirements—Page 86
MENTAL HEALTH ASSISTANT PROGRAM

Due to the special nature of this Program students will be evaluated at the conclusion of each semester to determine the advisability of their continuing in the Program.

+ MH 11 INTRODUCTION TO HUMAN SERVICES 3 crs. 3 hrs.
A wide array of Human Services as provided by a large selection of agencies are reviewed in this course. Students visit and evaluate selected agencies serving many fields, including mental health, social services, child care and education programs.
Open to all students.

MH 31 PRINCIPLES OF INTERVIEWING AND GROUP LEADERSHIP 3 crs. 3 hrs.
The basic principles of gathering information through the use of interviewing techniques will be examined. The nature of group formation, function and leadership, and how they relate to one another will be analyzed. Emphasis is placed upon providing service to the mentally ill. Role playing and classroom practice sessions are structured as part of the course.
For Mental Health majors only.
Prerequisite: MH 11
Corequisite: MH 96

MH 34 ACTIVITIES THERAPY 3 crs. 3 hrs.
The theories and principles of using activities as a therapeutic tool are examined in this course. Learning selected basic skills and their use will be emphasized, demonstrated, discussed and practiced in the classroom.
For Mental Health majors only.
Prerequisite: MH 11

MH 35 AGING AND MENTAL HEALTH 3 crs. 4 hrs.
Issues and problems pertaining to aging and the aged are explored in this course. The aging process and roles of the older adult in our society are examined and analyzed. Emphasis is placed on learning methods for the prevention and treatment of mental illness in older people.
Open to all students.

MH 36 THEORIES AND PRINCIPLES OF PSYCHOTHERAPY 3 crs. 3 hrs.
The array of treatment modalities for the emotionally disturbed are surveyed during this course. Theory, methods and historical background of individual and group therapies are reviewed. Special treatment approaches for out-patients, transitional facilities, and treatment of behavior problems in the school setting are discussed. A review of conditioning therapies, recent innovations in group therapy and self-help groups is included.
For Mental Health majors only.
Prerequisites: MH 11 and PSY 36

+ Basic Course
MH 81 INDEPENDENT STUDY 1-3 crs. 1-3 hrs.

Independent study of Mental Health is developed individually between student and faculty member and must be approved by the Department.

FIELD COURSES

MH 96 SUPERVISED INSTRUCTIONAL EXPERIENCE IN MENTAL HEALTH I 3 crs. 6 hrs.

Under faculty supervision, students are assigned to work in a Mental Health Agency where the focus is on preventive and therapeutic measures.
For Mental Health majors only.
Prerequisite: MH 11
Corequisite: MH 31

MH 97 SUPERVISED INSTRUCTIONAL EXPERIENCE IN MENTAL HEALTH II 3 crs. 6 hrs.

In this advanced course students are assigned to work with patients afflicted with a variety of emotional disorders. The student's responsibilities for patients are carried out under faculty supervision.
For Mental Health majors only.
Prerequisites: MH 11 and 96

A.S. Degree
MENTAL HEALTH ASSISTANT
Requirements—Page 69
BIOLOGY

+BIO 10 PREPARATORY COURSE*  
0 crs. 3 hrs.  
(3 equated credits)

Designed for students with little or no previous biology course experience who plan to pursue a career program in the allied health sciences. Students are introduced to fundamental concepts in biology and related chemical and physical processes, and learn various basic skills.

*Enrollment limited to recommended students based on science background and placement examination scores and does not count toward fulfillment of the science requirement for any degree.

+BIO 11, 12 HUMAN ANATOMY AND PHYSIOLOGY I and II  
4 crs. 6 hrs.  
(each semester)

The full-year course, which includes classroom and laboratory sessions, deals with the normal anatomical and physiological interrelationships of the various systems in the human organism. Emphasis is on the dynamic aspects to show how the organism integrates external and internal information so that it biologically responds to constantly changing conditions. Recommended for students pursuing careers in one of the health fields.

Prerequisite: BIO 11 for BIO 12.

+BIO 13, 14 GENERAL BIOLOGY I and II  
4 crs. 6 hrs.  
(each semester)

This one year lecture and laboratory course in general biology is intended for students who plan to pursue careers in the biological sciences. A modern treatment of classic and contemporary biological concepts is presented. Emphasis is on the biological forces at work in the world in which students live.

Prerequisite: BIO 13 for BIO 14
Corequisite: CHM 11 for BIO 14

BIO 20 LABORATORY COURSE IN HUMAN ANATOMY and PHYSIOLOGY  
2 crs. 4 hrs.

This laboratory course was designed to meet the needs of respiratory therapy students who have successfully completed one year of Human Anatomy and Physiology at Central School of Respiratory Therapy and need the laboratory component. Upon successful completion of this course, credit would be granted for BIO 11-12. This course is only open to students in the Central School of Respiratory Therapy.

BIO 21 COMPARATIVE ANATOMY  
Fall  
4 crs. 6 hrs.

A study of the comparative morphology, taxonomy, and evolution of the vertebrates. The dogfish and the cat are the subjects of detailed laboratory study.

Prerequisite: BIO 14

BIO 22 EMBRYOLOGY  
Spring  
4 crs. 6 hrs.

A comparative study of the embryonic development of the sea urchin, frog, chick, and mammal. Included is consideration of fertilization, differentiation, and regeneration in invertebrates and vertebrates.

Prerequisite: BIO 14

+B Basic Course  □ Remedial Course
+BIO 27 HUMAN BIOLOGY  
3 crs. 4 hrs.  
This course is designed to provide a basic understanding of the structure and function of the human body. Wherever appropriate common pathological conditions and relevant medical terminology will be included.  
Prerequisites: SEC 67 and 69  
Corequisites: SEC 68, 70, and 92  
Required course for Secretarial Science—Medical Option majors. Open to non-secretarial science students with Department permission.

+BIO 35 INTRODUCTORY HORTICULTURE  
3 crs. 3 hrs.  
This course deals with various aspects of plants whose cultivation yields rewards which are monetary, or esthetic, or both. Three major aspects of Horticulture, 1) the Biology, 2) the Technology, and 3) the Industry, are studied. To accommodate Liberal Arts students, as well as science-oriented students, the approach in this course is as non-technical as possible.

+BIO 37 HUMAN GENETICS  
3 crs. 3 hrs.  
This is a one semester course designed to introduce, in an uncomplicated manner, the principles of genetics with applications to human beings. The different systems by which characteristics are inherited will be considered and representative human hereditary problems will be studied. The roles of heredity and environment will be explored. Students will be introduced to the basic concepts of population genetics.

BIO 48 FOOD MICROBIOLOGY  
3 crs. 3 hrs.  
This elective course, designed for students majoring in the biological sciences, in food sciences, in nutrition or related course programs, may be chosen as well by non-science majors to fulfill their science requirement. The course deals with specific food-borne micro-organisms, diagnostic methods, and control.  
Prerequisite: A BIO course or Department approval

BIO 50 GENERAL MICROBIOLOGY  
4 crs. 6 hrs.  
This lecture and laboratory course includes the study of the methods of pure culture techniques, growth of micro-organisms, morphological and physiological characteristics of micro-organisms microbial biochemistry, as well as microbial genetics. Special attention is given to water, food and dairy microbiology.  
Prerequisites: BIO 14, CHM 11  
Recommended: CHE 12

BIO 51 MICROBIOLOGY IN HEALTH and DISEASE  
4 crs. 6 hrs.  
A classroom and laboratory course which involves the study of the principles and practices of microbiology: pure culture techniques: micro-organisms and their environments: physical and chemical factors affecting growth, immunology, epidemiology; and the relationship between man and the microbiological world.  
Suggested for students in the allied health sciences only  
Prerequisites: BIO 12 and SCI 25
**BIO 52 MARINE BIOLOGY**
*Spring and Summer*

Students in this course attend laboratory and classroom sessions during which they study the interrelationships between various environmental factors (physical, chemical and biological) and the distribution and physiology of selected marine organisms. Special attention is given to ecological techniques and taxonomic methods. Field trips supplement laboratory work.

*Prerequisites: BIO 14 and CHM 11 or permission of the Department*

**BIO 53 TERRESTRIAL ECOLOGY**
*Spring or Summer*

Terrestrial ecology is a study of concepts and principles relating to the structure and function of populations, communities, and ecosystems: energy flow, biogeochemical cycling, community structure, population growth and population interactions, disturbed and undisturbed ecosystems. Designed for science majors, the course includes lectures, films, field trips, discussion, research project and report.

*Prerequisite: BIO course with permission of the Department*

**BIO 54 BIOLOGY OF GREEN PLANTS**
*Winter*

In this course, students learn the basic concepts of green plant biology with particular emphasis on their structure, growth and physiology. Laboratory experiences emphasize the growth and study of live specimens, including greenhouse and field projects.

*Prerequisite: BIO 14 or one semester of college biology with permission of the Department*

**BIO 55 BIOLOGY OF THE INVERTEBRATES**
*Fall*

An introductory survey course for students who intend to continue in the field of biological science or choose it as their sophomore-level science elective. Various invertebrate phyla are studied with particular reference to their physiology and their interrelationships. Representative forms will be examined and dissected and various experiments will be performed on particular organisms. Fundamental biological concepts will be stressed.

*Prerequisite: BIO 13 or SCI 33*

**BIO 56 UNDERSTANDING ENVIRONMENTAL POLLUTION**

*3 crs. 3 hrs.*

This course deals with living organisms, both plant and animal, whose environments are constantly being altered and whose continued existence is threatened because of man’s developing technologies and growth. Its theme demonstrates how those chief requirements of living systems, water, oxygen and nutrients, have been affected by specific organic, inorganic and radioactive waste materials bringing about population decline through intrusion upon tissues, organs and organ systems.

*Prerequisites: BIO 58 and 63*

**BIO 58 BASIC PRINCIPLES OF MOLECULAR BIOLOGY**

*4 crs. 6 hrs.*

This one-semester course will involve students in a study of the structure and function of cells at the biochemical level. The course begins with a systematic study of the chemistry of carbohydrates, lipids, proteins and nucleic acids. This section is followed by an integration of cell structure and function with the chemistry of the biomolecules just studied and introduces the study of enzymes and their co-factors. The final part of the course considers the major metabolic pathways for energy production, for utilizing this energy to carry out life processes as well as an introduction to the regulation of enzyme catalyzed reactions and the regulation of the synthesis of enzymes. Laboratory experiments require students to master a wide variety of commonly used laboratory techniques and to intelligibly present data.

*Prerequisites: BIO 14 and CHM 12*
BIO 63 LIMNOLOGY

Spring or Summer
4 crs. 6 hrs.
Limnology is the science of inland waters dealing with the physical, chemical and biological characteristics of streams, lakes, and their watersheds. During lectures, in laboratories and in field work, students will study the organisms as well as the processes whereby matter and energy are transformed within a lake, pond, river, or stream.
Prerequisites: Course in Biology and permission of the Department

BIO 71 BIOLOGICAL PHOTOGRAPHY

3 crs. 4 hrs.
In this one-semester course the basic principles underlying the architecture of living organisms from the microscopic to the macroscopic levels are outlined and studied in depth. Photography is used as an investigative tool for the study of living structure. Emphasis is placed on the unique ways in which photography has been an important scientific tool in the past, and on the ever expanding new photographic techniques currently in use. Students are given ample time for experimentation with the major photographic variables-lighting, filter, films, motion, which have revealed aspects of living structure and function only previously suspected. 
Prerequisite: Any biological science course

BIO 81 INDEPENDENT STUDY

1-3 crs. 1-3 hrs.
Independent study of Biology is developed individually between student and faculty member and must be approved by the Department.

BIO 82

1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

BIO 92 FIELD EXPERIENCE IN HUMAN ECOLOGY

3 crs. 4 hrs.
This interdisciplinary course acquaints students with the fundamentals of ecology so they are better able to cope with the ecological problems confronting man. An essential component of the course is the participation of students in projects geared to correct certain existing ecological conditions. Guest lecturers are invited. Open to all students, regardless of degree objective.

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+SCI 31 HISTORY AND PHILOSOPHY OF SCIENCE I

2 crs. 2 hrs.

For complete course description refer to Department of Physical Sciences, (page 215).

+SCI 32 HISTORY AND PHILOSOPHY OF SCIENCE II

2 crs. 2 hrs.

During this course, students study the historical and philosophical developments of biology. Concepts emphasized during the semester include the scientific method, heredity and the theory of evolution and ecology. The impact of man on his world is considered. For students in Career Programs.

+SCI 33 INTRODUCTION TO MODERN CONCEPTS OF BIOLOGY

4 crs. 5 hrs.

This course places emphasis on the modern theory of evolution and its application to current problems in ecology and conservation. Major concepts in biology are considered. The necessary background in cell biology, mitosis, meiosis, embryology and genetics is provided through coordinated lecture and laboratory sessions. For non-science majors.

+SCI 42 CONTEMPORARY TOPICS IN BIOLOGY

3 crs. 3 hrs.

This course makes biology available and relevant to interested students by giving them an understanding of biology as it relates to current problems in society. The course supplements the traditional laboratory course in biology but can be taken alone. Offered to all students in partial fulfillment of their science requirement.

+SCI 43 FIELD BIOLOGY

4 crs. 5 hrs.

An introduction to the study of living organisms in relation to their environment, this course includes classroom lectures, laboratory work and field trips.

Prerequisite: A science course or permission of the Department

SCI 50 PEOPLE AND THE ENVIRONMENT I

2 crs. 2 hrs.

A general education course designed to help students recognize mankind's interdependence with the environment and to instill individual—and mankind's—responsibility for environmental quality. The biological sciences will be emphasized, and will deal with such topics as pollution control, the ecological balance in nature and the growth and control of human populations.

+SCI 70 THE SCIENCE OF NUTRITION

3 crs. 3 hrs.

With an increase in the processing of food and the increased addition of chemical substances to food, it is important for students to understand the basic ideas of modern nutrition for their own well being. This interdisciplinary course, taught jointly by the Biological Sciences, Physical Sciences, and the Health, Physical Education and Recreation Departments, attempts to teach these ideas. Such concepts as biochemical individuality as related to nutrition for optimum health are integrated with surveys of carbohydrate, protein and fat metabolism. The role of vitamins and minerals in metabolic processes and their still-controversial role in orthomolecular nutrition is examined. Other topics, such as food selection, diet during pregnancy and infancy, special diets during illness, and the safety of the food supply, are discussed. Students are asked to analyze their own diet.

+Basic Course
A one-semester interdisciplinary course offered with the cooperation of the Art Department. It is designed to provide students with a structural and functional knowledge of the muscles and skeleton of the human body.

(Fulfills Group V requirement for Art students only)

Prerequisite: A studio course or permission of this Department
ACCOUNTING

ACC 11 FUNDAMENTALS OF ACCOUNTING I

This first half of a year's course introduces the accounting cycle and the fundamental concepts and techniques of accounting for business transactions. Areas of concentration include: business records, journals and ledgers, theory of debit and credit, analysis of business transactions, adjusting and closing entries, worksheets, preparation of financial statements, payroll preparation, taxation, the computer and accounting. Supplemental Laboratory work is required.

ACC 12 FUNDAMENTALS OF ACCOUNTING II

This second semester of the two-semester course covers partnership, corporation and manufacturing financial transactions (including accounting for long-term debt), financial statement analysis and introduction to cost accounting with emphasis on the use of accounting data and analysis for managerial decision-making. Supplemental Laboratory work is required.

Prerequisite: ACC 11
Corequisite: For Accounting majors only—ACC 41

ACC 21 INTERMEDIATE ACCOUNTING I

The worksheet as a fundamental tool of the accountant is reviewed and underlying accounting principles, concepts and conventions, are applied to the corporate organization. Areas of course concentration include: inventory valuation, analysis of working capital, source and application of working capital funds, installment sales, consignments, and other relevant material. Emphasis is placed on pronouncements of the American Institute of Certified Public Accountants (AICPAs), Accounting Principles Board (APB), the new Financial Accounting Standards Board (FASB), and their impact on business management, decision-making and financial statement reporting.

Prerequisite: ACC 12

ACC 22 INTERMEDIATE ACCOUNTING II

This course concentrates on tangible, intangible, fixed and other non-current assets; home and branch office accounting is included. As an integral part of the course, discussions and illustrations of the impact of recent accounting developments on financial statements and business management are continued. Accounting Principles Board and Financial Accounting Standards Board pronouncements are given intensive study.

Prerequisite: ACC 21

ACC 31 COST ACCOUNTING I

Detailed study of the techniques and methods of cost accounting are offered during this course. Areas of concentration include: cost concepts and analysis of costs; material control; accounting for labor; nature and application of manufacturing overhead (including factory overhead variance analysis); job order cost systems; process cost systems; direct costing.

Prerequisite: ACC 12

+ Basic Course
ACC 32 COST ACCOUNTING II
3 crs. 3 hrs. s.
In this course the use of cost accounting principles and practices in managerial planning and control of are studied with emphasis placed on the decision-making role of management. The course includes: study of product pricing and production efficiency with the aim of maximizing profits; standard cost systems (including analysis of variances using the 2 variance, 3 variance and 4 variance methods); joint products and by-products costs; profit-volume analysis; capital budgeting, and break-even analysis.
Prerequisite: ACC 31

+ ACC 41 FEDERAL TAXATION
4 crs. 4 hrs.
Students in this course study the current Federal income tax laws and regulations including: concepts of taxable gross and net income, deductions and exemptions as applied to various classes of individual taxpayers. Preparation of individual income tax returns on actual governmental forms is required.

ACC 42 ADVANCED FEDERAL TAXATION
3 crs. 3 hrs.
Primarily concerned with the federal taxation of business (individual proprietors, partnerships and corporations), this course is based on the fundamentals of federal taxation mastered in ACC 41, Federal Taxation. In addition, the areas of gift and estate taxation are surveyed.
Prerequisites: ACC 12 and 41

ACC 43 NEW YORK TAXES
3 crs. 3 hrs.
The prevailing New York State and New York City income and business tax laws and regulations are studied. Preparation of individual and business tax returns is required.
Required for "Taxation Concentration" A.A.S. Accounting Degree Students.
Highly recommended for ALL A.A.S. Accounting Degree Students.
Prerequisite: ACC 41

ACC 81 INDEPENDENT STUDY
1-3 crs. 1-3 hrs.
Independent study of Accounting is developed individually between student and faculty member and must be approved by the Department.

ACC 82
1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

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ACCOUNTING
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+ Basic Course
BANKING

+BKG 14 MONEY AND BANKING
(also listed as ECO 14) 3 crs. 3 hrs.
This course involves a study of the nature and functions of money, monetary systems and monetary standards. A detailed analysis of the organization, policies, and operation of our public and private financial institutions, commercial banking, investment banking, central banking, and other financial intermediaries is included. The relationships of money and banking to economic activity is also considered.
Prerequisite: ECO 12

+Basic Course
BUSINESS ADMINISTRATION

+BA 11 BUSINESS MANAGEMENT AND ORGANIZATION 3 crs. 3 hrs.

Students in this course study business firms in terms of environment and functional requirements. Planning problems and the structure of decision-making for policy and action are analyzed. The strategy and behavior of organizations, divisions of labor, flow of authority, delegation and communication are reviewed. The focus is on enterprise types, management functions, operations, and the leadership role in an integrated framework of principles and concepts.

+BA 12 BUSINESS LAW I 3 crs. 3 hrs.

The American legal system: the problems and consideration of the essential principles of the law of business contracts and its relationship to typical business situations; appropriate New York State legal cases and recent decisions are studied in this course.

+BA 13 BUSINESS LAW II 3 crs. 3 hrs.

Students in the course consider the legal principles of agency, partnership and corporations. Legal problems arising out of the corporate and non-corporate forms of organizations as well as consideration of the rights, duties and obligations of employment and other special contractual and business relationships are analyzed.

Prerequisite: BA 12

+BA 14 PRINCIPLES OF MARKETING 3 crs. 3 hrs.

To enable consideration of marketing strategy from a customer's point of view, the course deals with principles and practices of the distribution process. Study areas include: product pricing, promotion, channels of distribution, market research, governmental regulations.

Prerequisite: BA 11

+BA 31 PERSONNEL ADMINISTRATION 3 crs. 3 hrs.

An examination of methods and procedures used by business management in the selection, development, maintenance, and utilization of an efficient work force is made in this course. Areas of study include: human relations, job evaluation, wage and salary administration, sources of labor supply, interviewing and counseling, training, testing, transfers, promotions, and union relations.

Prerequisite: BA 11

+BA 33 BUSINESS COMMUNICATIONS 3 crs. 3 hrs.

During the course, detailed attention is given to the principles of writing effective business communications, including letters, reports, memoranda, directives. Emphasis is on organization, language, human relations and the application of business psychology in writing.

+Basic Course
BA 35 SALES MANAGEMENT

The field of sales management will be analyzed as a major area of marketing. Focus is on the major responsibilities of a sales manager in managing a sales force and/or in the maintenance of relationships with independent middlemen. The functions of planning and administering the company's personal selling operations, as well as other marketing campaigns, are considered. Participation in, and sometimes joint responsibility for making decisions on the product line, pricing, physical distribution, marketing channels, promotion, and brand management are discussed. Examination of the sales managers' job, duties, and responsibilities, are made with an application of the management approach.

Prerequisite: RBM 33

BA 52 ADVERTISING: THEORY AND PRACTICE

A basic course in the methods of advertising and its role in business. Students are introduced to the areas of media, copy, research, layout, production, direct mail, and campaign strategy.

Prerequisite: BA 14

+BA 60 INTRODUCTION TO COMPUTER CONCEPTS

This course develops an understanding and appreciation of commercial data processing. Through use of major programming languages, practical experience is gained in many areas, including accounting, general business, economics, the humanities and science.

BA 81 INDEPENDENT STUDY

Independent study of Business Administration is developed individually between student and faculty member and must be approved by the Department.

BA 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

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BUSINESS ADMINISTRATION

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+Basic Course
ECONOMICS

+ECO 12 FUNDAMENTALS OF ECONOMICS

3 crs. 3 hrs.
A study of the nature and methods of economics including: the economizing problem, American capitalism, national goals, and the basic principles of money and banking. A detailed analysis of supply and demand, the mechanics of prices in different market structures, national income and employment theory, monetary and fiscal policy is included. Problems of economic growth and stability are also considered.

+ECO 14 MONEY AND BANKING

(Also listed as BKG 14)
3 crs. 3 hrs.
This course involves a study of the nature and functions of money, monetary systems and monetary standards. A detailed analysis of the organization, policies, and operation of our public and private financial institutions, commercial banking, investment banking, central banking and other financial intermediaries is included. The relationships of money and banking to economic activity is also considered.
Prerequisite: ECO 12

+ECO 24 CONSUMER ECONOMICS

2 crs. 2 hrs.
Students in this course examine the process of consumer choice. Topics studied include marginal utility, budget restraint, supply and demand, consumer patterns of buying behavior, money, advertising and consumer protection.
INSURANCE

+INS 31 PRINCIPLES AND PRACTICE OF INSURANCE I  
*Fall*  
4 crs. 4 hrs.  
Contracts for fire, automobile, casualty, fidelity and surety, and burglary insurance are analyzed as students in the course survey insurance laws, risks insured against exclusions and endorsements, types of carriers, claims adjustments and allied subjects.

+INS 32 PRINCIPLES AND PRACTICE OF INSURANCE II  
*Spring*  
4 crs. 4 hrs.  
The course includes the following kinds of insurance contracts: inland and ocean marine, public liability and negligence, workers’ compensation, accident and health, and miscellaneous lines of coverage. Agents’ and brokers’ duties and responsibilities are analyzed.  
*Prerequisite: INS 31*

INS 35 RISK AND INSURANCE MANAGEMENT  
3 crs. 3 hrs.  
Risk and insurance management concepts—objectives of risk management—decision making process—methods of risk control and financing—types of insurers—insurance marketing, underwriting and claims administration, are taught during this course.

INS 37 LIFE, ACCIDENT AND HEALTH INSURANCE  
3 crs. 3 hrs.  
The course will consider various types of insurance (life, accident, health), and related area concepts and techniques as well as a variety of plans, cost factors, and types of companies. Governmental insurance and regulations will be examined. The way to program coverages and how to enter the profession at all levels (insurer, agent, broker, consultant, corporate) will be considered.

INS 81 INDEPENDENT STUDY  
1-3 crs. 1-3 hrs.  
Independent study of Insurance is developed individually between student and faculty member and must be approved by the Department.

INS 82  
1-3 crs. 1-3 hrs.  
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

+Basic Course
REAL ESTATE

+RE 31 PRINCIPLES AND PRACTICE OF REAL ESTATE I
Fall
3 crs. 3 hrs.
A survey course which considers interests in realty, real estate principles and related business law, real estate contracts, bonds and mortgages, deeds, liens, easements and leases.

+RE 32 PRINCIPLES AND PRACTICE OF REAL ESTATE II
Spring
3 crs. 3 hrs.
This advanced course includes study of agency, taxes and assessments, closing, forms of voluntary and involuntary alienation, license law, management, real estate valuation and appraisal, rent regulation, subdivisions and developments, operation of a broker’s office.
Prerequisite: RE 31

RE 81 INDEPENDENT STUDY
1-3 crs. 1-3 hrs.
Independent study of Real Estate is developed individually between student and faculty member and must be approved by the Department.

RE 82
1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
RETAIL BUSINESS MANAGEMENT

+RBM 31 ELEMENTS OF RETAIL BUSINESS MANAGEMENT

Fall

3 hrs. 3 hrs.

This course introduces students to management techniques essential to the planning, organization, control and operation of retail establishments. Examination is made of fundamentals underlying modern merchandising practices, recent developments in trading area analysis, shopping centers, consumer relations, warehousing, transportation, stock control, and data processing. Retail case studies and field trips are included.

+RBM 33 SALESManSHIP

Spring

3 hrs. 3 hrs.

Principles of selling based on the modern marketing concept are taught in this course. Consumer needs and desires together with company objectives; contributions of the behavioral sciences to the study of consumer behavior and buying patterns; organization and control of the wholesale, industrial, and retail sales force are considered.

RBM 34 FASHION BUYING AND MERCHANDISING

Spring

3 hrs. 3 hrs.

Course topics include: the dynamics of the world of fashion, selection and merchandising of fashion products, market evaluation, forecasting fashion trends, consumer buying habits, stock planning, buying committees, resident buying offices, domestic and foreign markets. Field trips are required.

RBM 35 MERCHANDISE INFORMATION ANALYSIS

Fall

4 hrs. 4 hrs.

Fashion fabrics and non-textile merchandise information, including their identification, characteristics, merits, limitations and care are considered in this lecture and laboratory course. Detailed study is made of natural and man-made fibers, types of yarns, construction, finishes, coloring of fabrics, and sales. A survey of leather, rubber, plastic, paint, papers, furs, jewelry, cosmetics, soaps, synthetic detergents, and other non-textile products is included.

RBM 36 MERCHANDISE DISPLAY

Spring

3 hrs. 4 hrs.

Basic principles of display are studied in the classroom and laboratory. Practice is included in designing and building interior, window, and point-of-purchase merchandise displays. Field trips and guest demonstrations are held.

+ Basic Course
RBM 38 INTRODUCTION TO FASHION MARKETING
Spring
3 hrs.
This course is designed as an introduction to the fashion industry. Students develop an understanding of many different types of career opportunities in the world of fashion; economic and social factors which influenced its history and growth; producers, retailers, and specialized agencies involved in the production and distribution of fashion commodities—their characteristics, activities and relationships; consumer power and the marketing concept as it affects products and practices in the fashion business.

RBM 51 DATA PROCESSING FOR RETAILERS
Fall
3 hrs.
Students learn about electronic data processing as an aid to retail management. The course includes recording of data at point-of-sale, back-office data recording, inventory control, automatic ordering of staples, perpetual open-to-buy, fashion forecasting, merchandising by classification, sales trends, improvement in turnover, seasonal planning, improvement in stock sales ratio, shipping and warehousing, accounts receivable and payable.
Open to RBM majors only.

RBM 81 INDEPENDENT STUDY
1-3 hrs.
Independent study of Retail Business Management is developed individually between student and faculty member and must be approved by the Department.

RBM 82
1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

RBM 92 FIELD EXPERIENCE-RETAIL BUSINESS MANAGEMENT
Spring
3 hrs.
Eight hours per week of supervised field experience in retail management, plus one hour a week devoted to seminar discussion of relevant field experience, is required in this course.
SUPERMARKET MANAGEMENT AND FOOD MARKETING

A concentration of Retail Business Management
(See Department representatives for degree requirements)

+FM 11 INTRODUCTION TO FOOD MARKETING 3 crs. 3 hrs.
This course reflects an overview of the marketing process with special application to the food industry. Students learn that marketing services and utilities add value to food products as they proceed along the channels of distribution from farm and ranch, to processors, to middlemen, to consumers. Added values, costs and anticipated profits, supply and demand factors become an integral part of the pricing mechanism. Introduced to the marketing functions performed by farmers, ranchers, processors and middlemen, students become aware that the entire food industry is geared to servicing the needs of the consumer.

+FM 12 ELEMENTS OF FOOD RETAILING 3 crs. 3 hrs.
This course embodies the elements of retailing which helped the supermarket achieve its present dominance of the retail food industry. The supermarket concept is applied to all product categories and all types of food stores, including the convenience store, the discount store and the superette. Ways to obtain buying advantages, to balance pricing to achieve a desired margin, to increase sales volume and turnover, to stock and display goods, and how to reorder are included.

+FM 13 SUPERMARKET OPERATION 3 crs. 3 hrs.
In this course students learn about the operation of a supermarket by its major departments: meat, dairy, baked goods, frozen foods, produce, grocery, non-foods and the front end. Concepts presented in "Elements of Food Retailing" are applied to individual departments and product classes. Future department managers acquire necessary "know-how" needed to profitably operate each department.
Prerequisite: FM 12

+FM 14 SUPERMARKET MANAGEMENT 3 crs. 3 hrs.
A persistent challenge confronting the supermarket operator today is the ever narrowing profit margin. In this course, future store managers analyze financial and operations reports. They answer questions on: why the report is needed, what the reports include, how the ratio is computed, how to interpret and use the data. They analyze data, recommend corrective action, make short- and long-term plans. They learn to use information as a management tool and to solve related case problems. Satisfactory completion of this course is usually required for promotion to store and field managerial positions.
+RBM 15 SUPERMARKET PERSONNEL PERFORMANCE MANAGEMENT

This course is designed to prepare managers to improve personnel performance among new and old employees. Course objectives are: improve employee productivity as an integral part of the management role, institute procedural controls for minimum performance standards, maintain an effective customer relations program and store image, build employee morale and productivity to reduce turnover and increase sales and profits.

+RBM 16 SUPERMARKET SALES PRODUCTION

The object of this course is to teach that the responsibility of attracting and holding customers is on all employees: store president, advertising manager, store manager, and checkout clerks. Included are: the determination of the how, when, where, why and what, for urban store sales promotions: how to attract customers with effective advertising, sales promotion, displays, public relations and services; planning, implementing, and evaluating sales promotions.
The City University of New York mandates that students pass the CUNY Reading Test and the CUNY Writing Assessment Test in order to advance from the sophomore to the junior year. At Kingsborough Community College, students whose CUNY tests indicate that they are in need of remediation, are placed in Remedial English courses. They fulfill their remediation requirements on the basis of their performance on subsequent CUNY tests. Depending on their test scores, students in need of remediation in reading are assigned to ENG 03 or ENG 04. Students in need of remediation in writing are assigned to ENG C1 as their first course. Students who do not require a full semester of remediation in writing are assigned to the sequence of ENG 12 and ENG 22, or, ENG C2 and ENG 22.  

On admission, students may be exempted, without credit, from ENG 12.

**READING**

In order to be graduated from Kingsborough, all KCC students are required to pass the CUNY Reading Test at the Kingsborough cut-off score. In order to transfer from KCC to the junior year of a CUNY senior college, KCC students are required to meet the CUNY passing score, which is a few points higher. KCC offers courses in remedial reading to enable students to reach these levels. The remedial reading requirement is deferred for one semester for students who, on entrance, score slightly below the Kingsborough cut-off score. At the end of one semester, these students are retested. If they still have not achieved the passing score, they are required to take remedial reading. Those students whose reading requirement is officially deferred may take the introductory English writing courses (ENG C1, ENG C2, or ENG 12). However, no student will be permitted to take ENG 22 unless the CUNY Reading Test has been passed at the Kingsborough cut-off score.

**WRITING**

Students are placed in the introductory writing courses on the basis of the score achieved on the CUNY Writing Assessment Test. If the controlling score is 4, the proper English course is ENG 12. If the controlling score is 3, the required course is ENG C2 (the compensatory equivalent of ENG 12). The required course which follows both ENG 12 and ENG C2 is ENG 22. If the controlling score is 2 or 1, the required course is ENG C1 (a non-credit writing course).

Only those students who, on entrance to the College, score 5 or 6 on the CUNY Writing Assessment Test, and pass the CUNY Reading Test at the Kingsborough cut-off score, are exempt from ENG 12. They need to take only ENG 22 to complete the Freshman English requirement.

Kingsborough's Freshman English requirement is either 4 or 8 credits. Students who are exempt from ENG 12 take ENG 22 for 4 credits. All other students need to take 8 credits of required English courses.

Prerequisite for all English courses numbered 30-78: ENG 12, or ENG C2.

Co or prerequisite for ENG 49: ENG 22.
ENG C1 BASIC WRITING SKILLS* 

0 crs. 5 hrs. 
(5 equated crs.)

An introductory course in writing skills which deals with the basic elements of sentences, paragraphs, and essays. The course also continues the development and refinement of college-level reading skills.

Required of students who have scored below 3-3 on the CUNY Writing Assessment Test, irrespective of score on the CUNY Reading Test.

ENG C2 FRESHMAN ENGLISH SKILLS* 

4 crs. 5 hrs. 
(5 equated crs.)

An introductory course in reading and writing skills emphasizing organization in paragraphs and essays and an understanding of how language functions in communication of facts, ideas, and attitudes. Special instruction is provided both in class and in the English Skills Laboratory to help students pass the CUNY Writing Assessment Test.

Required of students who have scored 3-3 on the CUNY Writing Assessment Test, either on entrance or at the end of ENG C1. Students who are required to take ENG 03 or ENG 04 may not take ENG C2 until the reading requirement has been met or officially deferred.

ENG 03 BASIC READING SKILLS* 

0 crs. 3 hrs. 
(3 equated crs.)

A course designed to help students improve skills in reading through guided instruction and intensive practice in basic vocabulary, comprehension, and study skills.

Required of students who fail to attain the equivalent of the 8.5 grade level on the CUNY Reading Assessment Test.

ENG 04 ANALYTICAL READING* 

0 crs. 3 hrs. 
(3 equated crs.)

A course designed to help students achieve improved efficiency in reading through guided instruction and intensive practice in vocabulary, comprehension, and study skills development.

Required of students who score between the equivalent of the 8.5 grade level and the passing grade on the CUNY Reading Assessment Test. In addition, students who have scored in this range on the CUNY Reading Test at the end of ENG 03 will also be required to take this course.

ENG 07 BASIC LANGUAGE SKILLS FOR STUDENTS LEARNING ENGLISH AS A SECOND LANGUAGE 

0 crs. 10 hrs. 
(10 equated crs.)

A one-semester course for people who are not native speakers of English and who demonstrate on a battery of diagnostic tests that they are not fluent users of English. The course will consist of various activities designed to improve communication skills in English, emphasizing correctness in structure, grammar, and vocabulary. Small group activities will reinforce the skills being introduced in the classroom and allow intensive, individualized practice under supervision.

+ Basic Course 

Remedial Course 

* One hour a week is devoted to individualized and small group instruction in the appropriate Skills Laboratory.
A one-semester course for people who are not native speakers of English and who demonstrate on a battery of diagnostic tests that they are not fluent readers or writers of English. The course will consist of various activities designed to improve those skills, emphasizing correctness of structure, grammar, and vocabulary. Small group activities will reinforce the skill being introduced in the classroom and allow intensive, individualized practice under supervision.

**ENG 12 FRESHMAN ENGLISH**

4 crs. 4 hrs.

An introductory course in reading and writing skills emphasizing organization in paragraphs and essays and an understanding of how language functions in communication of facts, ideas, and attitudes. **After passing ENG 12 students must take ENG 22.**

Required of students who have scored 4-4 on the CUNY Writing Assessment Test, either on entrance or at the end of ENG C1. Students who are required to take ENG 03 or ENG 04 may not take ENG 12 until the requirement has been met or officially deferred. Students who on entrance, score at least 5-5 on the CUNY Writing Assessment Test and pass the CUNY Reading Test, are not required to take ENG 12 and need only ENG 22 to fulfill the KCC Freshman English requirement.

**ENG 15 through 17**

Designed for students in the Bilingual Studies Program. See page 152 for course descriptions.

**ENG 22 VARIETIES OF EXPRESSION**

4 crs. 4 hrs.

An intensive study of the various types of writing that students encounter in college. ENG 22 is a reading and writing skills course, using readings drawn from various subject areas as the basis for writing assignments and class discussions. These readings are organized around a unifying theme. Writing assignments during the semester build to increasingly greater length and complexity, and include a research paper.

**Prerequisites:** ENG C2 or ENG 12, and a passing grade on the CUNY Writing Assessment Test and the CUNY Reading Test (KCC cut-off), or exemption from ENG 12 on admission to the College.

**ENG 30 INTRODUCTION TO LITERATURE**

3 crs. 3 hrs.

Designed for students desiring a general introduction to the field. An examination of literary genres in their cultural context, literary terms and major movements in literature.

**Prerequisite:** ENG 12 or ENG C2

**ENG 31 CLASSICAL AND BIBLICAL LITERATURE**

3 crs. 3 hrs.

Readings in classic Western literature, including the Bible, Homer, the Greek dramatists, Thucydides, Plato, Aristotle and Virgil. Appropriate writing assignments.

**Prerequisite:** ENG 12 or ENG C2

**ENG 32 WORLD LITERATURE**

3 crs. 3 hrs.

Readings in European and non-Western literature from the time of Dante to the 19th century. The focus is on classics related to the enrichment of modern cultural patterns. Appropriate writing assignments.

**Prerequisite:** ENG 12 or ENG C2

+ **Basic Course**

□ **Remedial Course**
+ ENG 35 MODERN CONTINENTAL LITERATURE 3 crs. 3 hrs.
A study of significant European literary works from the 19th century to the present. Course deals with such figures as Ibsen, Chekhov, Kafka, Hesse, Gide, and Camus. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ ENG 40 SHORT FICTION—THE SHORT STORY AND NOVELETTE 3 crs. 3 hrs.
Examples of American and British short fiction contrasted with other selected works, including such writers as Poe, James, Mansfield, Salinger and Roth; comparative analysis of short and long narrative fiction, theme, language, focusing on the unique position of the short story in literature.
Prerequisite: ENG 12 or ENG C2

+ ENG 41 THE NOVEL 3 crs. 3 hrs.
An introduction to the novel, including analysis of its components and themes, and study of its historical development. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ ENG 42 POETRY 3 crs. 3 hrs.
An introduction to the different styles, forms, and themes of poetry, with attention to their purpose and effect. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ ENG 43 DRAMA 3 crs. 3 hrs.
An analysis of dramatic structure and a study of plays representing major dramatic styles. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ ENG 44 THE TRAGIC VISION 3 crs. 3 hrs.
Study of tragic literature from ancient times until the present day, in an attempt to understand the patterns and changing concepts in various literary genres. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ ENG 45 THE COMIC SPIRIT 3 crs. 3 hrs.
An investigation of comedy in prose and verse, its meaning, uses, and techniques. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ ENG 46 SATIRE 3 crs. 3 hrs.
A study of verse and prose satire in the ancient and modern worlds, using a critical, historical, and creative approach. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ Basic Course
ENG 49 SCIENCE FICTION
3 crs. 3 hrs.
A study of significant themes in some contemporary works in this genre: an attempt to discover non-traditional meanings of reality while at the same time relating science fiction to the literary tradition; an examination of the meanings of such terms as "universal" and "humanistic"; an analysis of a special kind of reader response elicited from science fiction.
Co or Prerequisite: ENG 22

ENG 54 ADVANCED COMPOSITION
3 crs. 3 hrs.
This is an advanced course designed to offer students the opportunity to achieve the precision, sophistication, and logical rigor associated with sound and mature written expression. This course emphasizes the analysis and writing of extended essays based upon traditional, contemporary, and experimental rhetorical modes.
Prerequisite: ENG 22 or ENG C2

ENG 56 CREATIVE WRITING: FICTION
3 crs. 3 hrs.
Instruction and practice in the forms and types of fiction. Analysis of peer writing on a workshop basis with a view toward assisting students to develop mastery of the form of fiction best suited for them.
Prerequisite: ENG 12 or ENG C2

ENG 57 CREATIVE WRITING: POETRY
3 crs. 3 hrs.
Instruction and practice in writing traditional and new forms of poetry.
Prerequisite: ENG 12 or ENG C2

ENG 61 SEMINAR: THE HISTORY OF LITERARY THEMES
3 crs. 3 hrs.
An intensive study of how significant ideas and themes are transmitted in literature. Each semester one major theme is chosen for examination. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ENG 63 SHAKESPEARE
3 crs. 3 hrs.
A survey of Shakespeare's work, emphasizing his plays, and including some consideration of his non-dramatic verse. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

ENG 65 LITERATURE AND FILM
3 crs. 3 hrs.
A study of novels, plays, and screenplays and the films made from them. Emphasis is on the different aesthetic problems facing the writer and the filmmaker. Additional time will be scheduled for film viewing. Appropriate writing assignments.
Prerequisite: ENG 12 or ENG C2

+ENG 67 WOMEN AND LITERATURE
3 crs. 3 hrs.
A study of the treatment of women in various genres and eras, and a consideration of women as writers, using sociological, psychological, mythic, and formal literary critical methods.
Prerequisite: ENG 12 or ENG C2

+Basic Course
+ENG 68 GOTHIC AND HORROR FICTION

A study of major works of horror fiction, including short stories, novels, and some narrative poetry, dealing primarily with the evocation of horror; an attempt to trace a narrative pattern common to much horror fiction; an analysis of gothic trappings and such psychosexual creatures as vampires and werewolves, as they appear in literature. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 71 ENGLISH LITERATURE: MEDIEVAL TO NEO-CLASSICAL

Readings in selected major works of English literature from Chaucer to Swift. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 72 ENGLISH LITERATURE: ROMANTIC TO EDWARDIAN

A study of significant works from the time of Swift up to World War I. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 73 AMERICAN LITERATURE: PURITANISM TO ROMANTICISM

Readings in selected major works of American literature from colonial writers to Whitman. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 74 AMERICAN LITERATURE: THE AGE OF REALISM

Readings in selected major works of American literature from the time of Mark Twain up to World War I. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 75 MODERN BRITISH AND AMERICAN LITERATURE

A study of English and American poetry, fiction, and drama from World War I to the present. Includes Yeats, T.S. Eliot, Lawrence, Faulkner, Ellison. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 77 THE ROOTS OF BLACK LITERATURE

Analysis of black literature in the United States and study of its history and development to 1950. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ENG 78 CONTEMPORARY BLACK LITERATURE

Analysis of black literature in the United States and study of its development from 1950 to the present. Appropriate writing assignments.

Prerequisite: ENG 12 or ENG C2

+ Basic Course

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ENG 81 INDEPENDENT STUDY  1-3 crs. 1-3 hrs.

Independent study of English is developed individually between student and faculty member and must be approved by the Department.

ENG 82  1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
JOURNALISM

+ JRL 31 BASIC JOURNALISM  
(Formerly ENG 50)  
3 crs. 3 hrs.

An introductory course dealing with the history of journalism, writing leads, rewrites, reporting hard news stories, covering beats, copy preparation, research, operation of a campus newspaper, special interests. May not be taken by students who completed ENG 50 and ENG 52.  
Corequisite: ENG 12

JRL 32 ADVANCED JOURNALISM  
(Formerly ENG 52)  
3 crs. 3 hrs.

This advanced course deals with further study of newspaper techniques: advanced research, in-depth coverage, interviews, sidebars, profiles, basic reviews, writing styles, headlines and typefaces, copyreading and proofreading, editorials, freedom of the press, legalities.  
Prerequisites: ENG 22, JRL 31

JRL 41 COMMUNITY JOURNALISM  
3 crs. 3 hrs.

A practical course designed to focus on matters of local concern: community standards, problems, economics, political influences and pressures. Students will learn techniques in covering local stories.  
Prerequisite: JRL 32

JRL 42 INVESTIGATIVE AND INTERPRETIVE JOURNALISM  
3 crs. 3 hrs.

This course focuses on developing techniques of interviews, research and analysis. Students will select an issue to investigate and will prepare one or more major stories researching and interpreting the information.  
Prerequisite: JRL 32

JRL 43 THE CRITICAL REVIEW  
3 crs. 3 hrs.

This is a course on journalistic criticism of the arts: literature, film, theater, architecture, art and related fields. Students will read and analyze examples of criticism and will write original criticisms.  
Prerequisite: JRL 32

JRL 71 PRINT MEDIA PRODUCTION  
2 crs. 4 hrs.

A practical course in the techniques of producing a newspaper, literary magazine or yearbook. Students are required to participate in workshops in two or more departments and handle materials at several stages of the publication. At the end of the course, students will have portfolios for presentation to potential employers.  
Prerequisite: JRL 32

JRL 92 JOURNALISM INTERNSHIP  
3 crs. 6 hrs.  
(variable hours)

Students will be placed in Community papers or in Community relations offices for practical work in the operations of a community publication.
English courses open only to students in the Bilingual Studies Program.

Students are placed into English 15-17 on the basis of a series of proficiency tests given by the Bilingual Studies Program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
<th>Hours</th>
<th>Equated Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ENG 15</td>
<td>ENGLISH I FOR STUDENTS WHOSE NATIVE LANGUAGE IS SPANISH</td>
<td>2 crs.</td>
<td>12 hrs.</td>
<td>(12 equated credits)</td>
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<tr>
<td></td>
<td>Intensive work on the basic structures and grammar of English with development of elementary reading and writing skills. Laboratory sessions are required.</td>
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<tr>
<td>+ENG 16</td>
<td>ENGLISH II FOR STUDENTS WHOSE NATIVE LANGUAGE IS SPANISH</td>
<td>2 crs.</td>
<td>10 hrs.</td>
<td>(10 equated credits)</td>
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<tr>
<td></td>
<td>A course in advanced English grammar and structure with increasing emphasis on reading and writing skills. Laboratory sessions are required.</td>
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<tr>
<td>+ENG 17</td>
<td>ENGLISH III FOR STUDENTS WHOSE NATIVE LANGUAGE IS SPANISH</td>
<td>2 crs.</td>
<td>8 hrs.</td>
<td>(8 equated credits)</td>
</tr>
<tr>
<td></td>
<td>Provides intensive practice in listening, speaking, reading and writing skills needed prior to entering college. Courses taught in English. Laboratory sessions are required.</td>
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</tr>
</tbody>
</table>
LIT 1 INTERNATIONAL PERSPECTIVES IN LITERATURE

3 hrs.

A study of selected works of French, Spanish and Italian literature, in English translation, with emphasis on national traditions, cultures and linguistic heritage. Special attention is given to questions of language and style of the original text. Course is taught by three instructors. Four weeks are devoted to each of the literature areas. Entire course is conducted in English.

Prerequisite: ENG 12

LIT 2 LITERATURE OF THE HOLOCAUST

3 hrs.

A study of literary responses to the Nazi Holocaust. Readings are selected from a variety of genres including diaries, memoirs, eye-witness testimonies, novels, plays and poetry. Emphasis is placed on the interpretation of a major historical event from both human and artistic points of view. Aspects of the Holocaust to be examined are: the roles of the victim, perpetrator, bystander and witness; life in the ghetto; the concentration camp experiences; resistance; post-war survival and world reaction. Films and visits by survivors will supplement the readings.

Prerequisite: ENG 12

FRENCH

+ FR 1 ELEMENTARY FRENCH I

4 hrs.

This course is designed for students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis is on correct pronunciation through intensive oral practice, extensive use of the language laboratory, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

Prerequisite: FR 1 or Acceptable Language Placement Examination score

+ FR 2 ELEMENTARY FRENCH II

4 hrs.

In this continuation of FR 1, students receive further development of their language skills, comprehension, speaking, reading and writing.

Prerequisite: FR 1 or Acceptable Language Placement Examination score

+ FR 3 INTERMEDIATE FRENCH I

3 hrs.

Progressive development of language skills, based on the foundations established in elementary French. Grammar review is supplemented by readings of modern French literature.

Prerequisite: FR 2 or Acceptable Language Placement Examination score

FR 4 INTERMEDIATE FRENCH II

3 hrs.

In this continuation of FR 3, advanced grammar, composition and reading of modern French authors are stressed.

Prerequisite: FR 3 or Acceptable Language Placement Examination score

+ FR 17 INTENSIVE REVIEW OF FRENCH GRAMMAR

3 hrs. (4 equated credits)

This course is designed for students who have had three or more years of high school French but have not studied the language for a substantial period of time.

Prerequisite: Acceptable Language Placement Examination score

+ Basic Course
FR 18 READINGS IN MODERN FRENCH

The emphasis in this course is on rapid reading, composition and discussion in French. Readings include contemporary short stories, essays, poetry, newspaper and magazine articles and reviews.
Prerequisite: FR 4 or equivalent

+FR 22 CONVERSATIONAL FRENCH

To develop fluency in speaking, this course stresses basic vocabularies and conversational patterns. Open to all students.
Prerequisite: FR 1 or permission of the Department

+FR 30 FRENCH MASTERPIECES IN TRANSLATION I

Designed for non-French speaking students, the course stresses the important novels, poetry and plays of 19th century French literature. The works of Balzac, Stendhal, Flaubert, as well as the Romantic and Symbolist poets are read and discussed in English.

FR 31 FRENCH MASTERPIECES IN TRANSLATION II

Designed for non-French speaking students, the course stresses major novelists, essayists, dramatists and poets of the 20th century. The works of Gide, Proust, Malraux, Celine, Cocteau, Apollinaire, Ionesco, Sartre, Camus, Robbe-Grillet, and Beckett, among others, are read and discussed in English.

FR 51 SURVEY OF FRENCH LITERATURE

A survey of French literature from selected writings of representative authors from the Middle Ages through the 18th century. Instruction in this course is entirely in French.
Prerequisite: FR 4 or permission of the Department

FR 53 FRENCH LITERATURE OF THE 20th CENTURY

A survey course of 20th century literature with particular focus on the major poets, playwrights and novelists. Conducted entirely in French on an advanced level, it includes explanation of the text, composition and discussion.
Prerequisite: FR 4 or permission of the Department

FR 55 HISTORY AND CIVILIZATION OF FRANCE

A chronological study of major French historical trends and developments up to the present time is made in this course. Political, literary and artistic movements highlighting important individuals, ideas and periods are examined. Selected texts representative of each period are read.
Prerequisite: FR 4 or equivalent

FR 56 ADVANCED FRENCH GRAMMAR AND COMPOSITION

This course is for students who wish further French language study at an advanced level through analysis of grammar, reading and composition. Emphasis is on developing written linguistic ability.
Prerequisite: FR 4 or equivalent

+Basic Course
FR 71 BLACK FRENCH LITERATURE I

Students in this course study the first period of Black French Literature (Period of Assimilation—1804-1920) and the second period (Period of Negritude—1920-1959), with analysis of both periods, especially the major works of Dr. Price-Mars, Carl Brouard, Jacques Roumain, Leon Damas, Leon Laleau, Aime Cesaire, Paul Niger, Guy Tirolien, Leopold Sedar Senghor, Frantz Fanon.

Prerequisite: FR 4 or equivalent

FR 72 BLACK FRENCH LITERATURE II

A study of the contemporary period devoted to the analysis of the major works of gifted black French writers of West Indies, Africa, like Rene Depestre, Camara Laye, Bernard Dadie, Jacques S. Alexis, Mongo Beti, etc.

Prerequisite: FR 4 or 71 or equivalent

FR 81 INDEPENDENT STUDY

Independent study of French is developed individually between student and faculty member and must be approved by the Department.

FR 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
GERMAN

+GER 1 ELEMENTARY GERMAN I

This course is designed for students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis is on correct pronunciation through intensive oral practice, extensive use of the language laboratory and audio-visual materials, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

+GER 2 ELEMENTARY GERMAN II

In this continuation of GER 1, students receive further development of their language skills, comprehension, speaking, reading and writing.
Prerequisite: GER 1 or Acceptable Language Placement Examination score

+GER 22 CONVERSATIONAL GERMAN

Course stress is placed on basic vocabularies and conversational patterns to develop fluency in speaking. Open to all students.
Prerequisite: GER 1 or permission of the Department

GER 51 SURVEY OF GERMAN LITERATURE

A survey course of German literature which uses selected writings of representative authors. An analysis of literary values and movements is included. Instruction in this course is entirely in German.
Prerequisite: Permission of the Department

GER 81 INDEPENDENT STUDY

Independent study of German is developed individually between student and faculty member and must be approved by the Department.

GER 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
HEBREW

+HEB 1 ELEMENTARY HEBREW I 4 crs. 4 hrs.
This course is designed for students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis is on correct pronunciation through intensive oral practice, extensive use of the language laboratory, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

+HEB 2 ELEMENTARY HEBREW II 4 crs. 4 hrs.
In this continuation of HEB I, students receive further development of their language skills, comprehension, speaking, reading and writing.
Prerequisite: HEB 1 or Acceptable Language Placement Examination score

+HEB 3 INTERMEDIATE HEBREW I 3 crs. 3 hrs.
Progressive development of language skills, based on the foundations established in elementary Hebrew. Grammar review is supplemented by readings of modern Hebrew literature.
Prerequisite: HEB 2 or Acceptable Language Placement Examination score

HEB 4 INTERMEDIATE HEBREW II 3 crs. 3 hrs.
Prerequisite: HEB 3 or Acceptable Language Placement Examination score

+HEB 30 HEBREW LITERATURE IN TRANSLATION I 3 crs. 3 hrs.
Designed for non-Hebrew speaking students, the course stresses reading and analysis of Hebrew classics in cultural and historical context. All readings and discussions are in English.

+HEB 31 HEBREW LITERATURE IN TRANSLATION II 3 crs. 3 hrs.
Designed for non-Hebrew speaking students, course consideration is on the emergence of Hebraic writers in the modern world. Emphasis is on the main literary personalities and their major contributions. All readings and discussions are in English.

HEB 51 SURVEY OF HEBREW LITERATURE 3 crs. 3 hrs.
This survey of modern Hebrew literature from selected writings of representative authors includes an analysis of Hebraic values as reflected in their writing. Instruction in this course is entirely in Hebrew.
Prerequisite: HEB 4 or equivalent

HEB 53 HEBRAIC LITERARY MASTERPIECES 3 crs. 3 hrs.
In this comprehensive course, the works of two great authors of Hebrew fiction are studied in their historical and cultural context.
Prerequisite: HEB 4 or equivalent

+Basic Course
HEB 54 READINGS IN HEBRAIC THOUGHT
3 crs. 3 hrs.
Students in this course are given intensive study of the Hebrew writings of a medieval and a modern Jewish thinker. Emphasis is placed on the linguistic and ideological aspects of these writings.
Prerequisite: HEB 4 or equivalent

HEB 56 THE HEBREW BIBLE
3 crs. 3 hrs.
Selections from the prose and poetry of the Old Testament in Hebrew are studied in this course. Emphasis is on language, culture and the unique Hebraic values contained in these selections.

HEB 81 INDEPENDENT STUDY
1-3 crs. 1-3 hrs.
Independent study of Hebrew is developed individually between student and faculty member and must be approved by the Department.

HEB 82
1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
ITALIAN

+IT 1 ELEMENTARY ITALIAN I

4 crs. 4 hrs.
This course is designed for students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis is on correct pronunciation through intensive oral practice, extensive use of the language laboratory, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

+IT 2 ELEMENTARY ITALIAN II

4 crs. 4 hrs.
In this continuation of IT 1 students receive further development of their language skills, comprehension, speaking, reading and writing.
Prerequisite: IT 1 or Acceptable Language Placement Examination score

+IT 3 INTERMEDIATE ITALIAN I

3 crs. 3 hrs.
Progressive development of language skills, based on the foundations established in elementary Italian. Grammar review is supplemented by reading of modern Italian literature.
Prerequisite: IT 2 or Acceptable Language Placement Examination score

IT 4 INTERMEDIATE ITALIAN II

3 crs. 3 hrs.
Continuation of IT 3. Grammar, composition and reading of modern Italian authors.
Prerequisite: IT 3 or Acceptable Language Placement Examination score

IT 18 READINGS IN MODERN ITALIAN

3 crs. 3 hrs.
Readings selected from contemporary short stories, novels, plays, magazine and newspaper articles, theater and cinema reviews. Emphasis is on rapid reading, composition and discussion in Italian.
Prerequisite: IT 4 or equivalent

+IT 22 ITALIAN CONVERSATION

2 crs. 2 hrs.
To develop fluency in speaking, this course stresses basic vocabularies and conversational patterns. May be taken as a co-elective with IT 2.
Prerequisite: IT 1 or permission of the Department

+IT 30 LITERATURE IN TRANSLATION

3 crs. 3 hrs.
Designed for non-Italian speaking students, the course includes reading and analysis of representative works of Italian literature in their cultural and historical context. Reading and discussion is in English.
Prerequisite: ENG 12

IT 51 SURVEY OF ITALIAN LITERATURE

3 crs. 3 hrs.
A survey of Italian literature from selected writings of representative authors. Course conducted in Italian.
Prerequisite: IT 4 or equivalent

+Basic Course
**IT 52 ITALIAN LITERATURE OF THE RENAISSANCE**

3 crs. 3 hrs.

Principal Italian authors of the Renaissance and their relation to the intellectual currents of the time are studied. Contributions of the Italian Renaissance to Western civilization in the fields of literature, art, politics, science and education are included.

*Prerequisite: IT 4 or equivalent*

**IT 53 LIFE AND WORKS OF DANTE ALIGHIERI**

3 crs. 3 hrs.

Selected readings from *La Vita Nuova* and *La Divina Commedia*, studied within the social, political and cultural context of Dante's time. Course conducted in Italian.

*Prerequisite: IT 4 or equivalent*

**IT 54 READINGS IN THE TWENTIETH CENTURY ITALIAN NOVEL**

3 crs. 3 hrs.

A study of selected passages of novels from contemporary representative Italian authors. Class discussion is supplemented by lectures on the cultural and literary backgrounds of these authors. Course conducted in Italian.

*Prerequisite: IT 4 or equivalent*

**IT 81 INDEPENDENT STUDY**

1-3 crs. 1-3 hrs.

Independent study of Italian is developed individually between student and faculty member and must be approved by the Department.

**IT 82**

1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
SPANISH

+SPA 1 ELEMENTARY SPANISH I  4 crs. 4 hrs.
This course is designed for students with no previous training in the language, or, as indicated by the Language Placement Examination score. Emphasis is on correct pronunciation through intensive oral practice, extensive use of the language laboratory, acquisition of basic vocabulary and the elements of grammar for conversation, comprehension, reading and writing.

+SPA 2 ELEMENTARY SPANISH II  4 crs. 4 hrs.
In this continuation of SPA I, students receive further development of their language skills, comprehension, speaking, reading and writing.
Prerequisite: SPA 1 or Acceptable Language Placement Examination score

+SPA 3 INTERMEDIATE SPANISH  3 crs. 3 hrs.
Progressive development of language skills, based on the foundations established in elementary Spanish. Grammar review is supplemented by readings of modern Spanish literature.
Prerequisite: SPA 2 or Acceptable Language Placement Examination score

SPA 4 READINGS IN HISPANIC LITERATURE  3 crs. 3 hrs.
Progressive development of language skills, advanced grammar and composition through selected readings in Hispanic literature.
Prerequisite: SPA 3 or Acceptable Language Placement Examination score

SPA 16 SPANISH PHONETICS  3 crs. 3 hrs.
A systematic study of the sound system and patterns of intonation. The organized development of vocabulary and idiomatic expressions are included. The course aims to improve students’ pronunciation, their ability to understand the spoken language, and to use it with fluency.
Prerequisites: SPA 4 or native conversational ability and Acceptable Language Placement Examination score

+SPA 17 INTENSIVE REVIEW OF SPANISH GRAMMAR  3 crs. 4 hrs.
(4 equated credits)
This course is designed for students who have had three or more years of high school Spanish but have not studied the language for a substantial period of time.
Prerequisite: Acceptable Language Placement Examination score

+SPA 18 PROPER MODELS OF SPANISH GRAMMAR AND CONVERSATION FOR NATIVE SPEAKERS  3 crs. 3 hrs.
Designed for Spanish-speaking students, this course places stress on improvement of reading and writing skills.
Prerequisites: Native conversational ability and Acceptable Language Placement Examination score or permission of the Department

+Basic Course
+SPA 22 ELEMENTARY SPANISH CONVERSATION
3 crs. 3 hrs.
A course stressing basic conversational skills for students who wish to use the Spanish language to communicate with Spanish-speaking people.
Prerequisite: Three years of High School Spanish, or SPA 2 or permission of the Department

+SPA 31 READINGS IN SPANISH AMERICAN LITERATURE IN TRANSLATION
3 crs. 3 hrs.
This course is designed for students who wish to explore the high points of Spanish American literature. This course is taught in English. Open to all students.

SPA 32 READINGS IN PUERTO RICAN HISTORY AND LITERATURE
3 crs. 3 hrs.
Designed for all students who would like to gain insight into Puerto Rican literature and culture. Depending on Spanish proficiency, students may register in the English or Spanish sections.
Prerequisite: SPA 4, or equivalent, or permission of the Department

+SPA 33 INTERMEDIATE SPANISH CONVERSATION
2 crs. 2 hrs.
Designed for students who wish to use the Spanish language to communicate with Spanish-speaking people in everyday situations. Intensive practice in spoken Spanish is included. This course may be selected as a co-elective with SPA 3.
Prerequisite: SPA 2 or 22 or, permission of the Department

SPA 34 SPANISH AMERICA: ITS CULTURE, ART AND MUSIC
3 crs. 3 hrs.
A presentation of the outstanding facets of Spanish American culture. Students in this course examine all important historic, political, literary and artistic movements. Important individuals, ideas and periods are highlighted. Grammar, literature and composition are emphasized through reading selected representative authors and works of each period. Course is taught in Spanish.
Prerequisite: SPA 4, or 18, or permission of the Department

+SPA 40 SPANISH FOR STUDENTS IN CAREER PROGRAMS
2 crs. 2 hrs.
The course stresses basic vocabulary and conversational patterns to help students in career areas communicate more effectively with peoples of Spanish-speaking countries, and enrich their own knowledge of Spanish language and culture. This course is not intended for native Spanish speakers.

SPA 44 ADVANCED SPANISH CONVERSATION
2 crs. 2 hrs.
A course designed for students who wish to speak fluently and correctly in current idiom. Stress is placed on student practice in class group discussions, prepared and impromptu, with emphasis on growth in oral expression and vocabulary building. May be selected as a co-elective with SPA 4.
Prerequisite: SPA 3, or 33, or permission of the Department

SPA 51 SURVEY OF SPANISH LITERATURE
3 crs. 3 hrs.
An advanced course for students who successfully completed SPA 4 or the equivalent. Selected writings of representative authors, with analysis of literary values, are studied. Instruction is entirely in Spanish.
Prerequisite: SPA 4, or equivalent, or permission of the Department

+Basic Course

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SPA 52 THE LITERATURE OF THE GENERATION OF 1898 AND THEREAFTER  
3 crs. 3 hrs.

The literature of the period from the Generation of 1898 to 1925, including the works of Garcia Lorca, Unamuno, Jimenez, and Ganivet, with emphasis on specific full-length works.
Prerequisite: SPA 4, or equivalent

SPA 53 SPANISH AMERICAN LITERATURE  
3 crs. 3 hrs.

A survey course of the significant literary production of Spanish America from colonial beginnings to the present day, with special attention given to the major authors of the 20th century. The course is conducted in Spanish.
Prerequisite: SPA 4, or equivalent or permission of the Department

SPA 54 ADVANCED SPANISH GRAMMAR  
3 crs. 3 hrs.

The course concentrates upon the development of skill and facility in Spanish grammar, composition and oral communication.
Prerequisite: SPA 4, or equivalent, or permission of the Department

SPA 55 HISTORY AND CIVILIZATION OF SPAIN  
3 crs. 3 hrs.

A chronological study of major Spanish historical trends and developments up to the present time are undertaken in this course. Political, literary and artistic movements highlighting important individuals, ideas and periods are examined. Selected texts representative of each period are read. This course is taught in both Spanish and English.
Prerequisite: SPA 4 or equivalent

SPA 57 SPANISH LITERATURE SINCE THE CIVIL WAR  
3 crs. 3 hrs.

This course will present the main developments in Spanish literature since the outbreak of the Civil War in 1936 to date and will concentrate on developing the major thematic concerns of Spain's chief novelists, essayists and poets with special emphasis on Spain's New Wave writers who emerged after 1950. This course is taught in both Spanish and English.
Prerequisite: SPA 4 or equivalent, or permission of the Department

SPA 70 SPANISH CINEMA  
3 crs. 3 hrs.

A thorough study of the best films and film scripts in the Spanish cinema. This course is taught in Spanish with a view toward developing an appreciation of the history, art and aesthetics of the Spanish cinema and increasing Spanish language experience.
Prerequisite: SPA 4, or equivalent, or permission of the Department

SPA 71 PUERTO RICAN FOLKLORE  
3 crs. 3 hrs.

A study of the folkloric compositions of the people of Puerto Rico in all its forms—from literary, musical, superstitions, etc; their sources and formation as influenced by all three cultural groups in Puerto Rican history: Indian, Spanish, and Black, and how they influence the Puerto Rican of today. This course is taught in both Spanish and English.
Prerequisites: SPA 4 or equivalent; passing of Placement Examination to be administered.

SPA 81 INDEPENDENT STUDY  
1-3 crs. 1-3 hrs.

Independent study of Spanish is developed individually between student and faculty member and must be approved by the Department.

SPA 82  
1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
HEALTH EDUCATION

HPE 12 FOUNDATIONS OF HEALTH AND PHYSICAL EDUCATION* 3 hrs.

This fundamental course covers a broad spectrum of health related topics. This course seeks to make students aware of the causes of mental and physical illnesses and their prevention, and demonstrates how one’s life style, perceptions, and decisions affects health. Guidelines and criteria are presented to determine good mental, emotional, and physical health. Opportunities for personal assessment will be provided.

* All students, except Nursing students, are REQUIRED to take HPE 12.

HE 20 CARDIOPULMONARY RESUSCITATION 1 hr.

Skills required to perform cardiopulmonary resuscitation (external cardiac massage and mouth-to-mouth resuscitation) are taught. Students successfully completing the course receive American Red Cross certificates.

HE 31 ENVIRONMENTAL PUBLIC HEALTH 3 hrs.

Public health operations in urban society are reviewed including: epidemiology, radiation hazards, waste disposal, water supply protection and treatment, pesticide control, air pollution, consumer and swimming facilities protection, food sanitation, safety, accident prevention.

HE 32 PRINCIPLES OF PUBLIC HEALTH 3 hrs.

This overview of public health services includes: organization and nature of public health programs, public health laws, patterns of medical care, health career opportunities, methods of public health education, communication techniques in working with the public.

HE 35 FIRST AID AND PERSONAL SAFETY 2 hrs.

Principles for first aid and personal safety are dealt with in terms of theory and practice of first aid procedures. Qualified students receive American Red Cross Certification. This course fulfills the safety and first aid requirement for those contemplating a teaching career.

HE 40 DRUGS, THE INDIVIDUAL AND SOCIETY 3 hrs.

This course is intended to provide students with the opportunity to gain a deeper perspective into the psychology of the dependent personality, reasons for drug use, misuse, abuse, and possible solutions.

HE 52 HUMAN SEXUALITY, MARRIAGE AND THE FAMILY 3 hrs.

Students learn to identify and understand their roles in dating, courtship, marriage and parenthood by the positive development and expression of sexuality based upon factual information related to sex, anatomy and physiology.

HE 82 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

+ SCI 70 THE SCIENCE OF NUTRITION 3 hrs.

For course description see page 125 or 216.

+ Basic Course
PHYSICAL EDUCATION

Course Information
All Physical Education courses include the fundamental development of specifically related rules and history, skills and techniques, strategy and game experience. Fitness and lifetime carry-over values are inherent within course content. No credit shall be given for repeating a course previously passed. Students should not ordinarily carry more than one Physical Education course per semester.

Limitations
Students must have medical clearance for Physical Education courses and for “The Foundations of Health and Physical Education” course (HPE 12). Students should direct their questions regarding Medical clearance to the Health Service Office (A108).

Co-educational Activities
All the following courses meet for 2 hours a week and earn 1 credit for each semester.

+PEC 2 CARDIOVASCULAR FITNESS
+PEC 4 TRAINING WITH WEIGHTS
+PEC 11 BEGINNING TENNIS
   (Students must supply own rackets and tennis balls)
+PEC 12 INTERMEDIATE TENNIS
   (Students must supply own rackets and tennis balls)
+PEC 14 ARCHERY
+PEC 16 BADMINTON
+PEC 18 FENCING
+PEC 20 PRINCIPLES OF CLASSICAL BALLET
+PEC 22 SOCIAL, FOLK AND SQUARE DANCING
+PEC 23 BOWLING
   Costs for activities will be paid by the student.
+PEC 24 SKIING
   Costs for activities will be paid by the student.
+PEC 26 GOLF
+PEC 27 BEGINNING KARATE AND SELF-DEFENSE
PEC 28 INTERMEDIATE KARATE AND SELF-DEFENSE
   Prerequisite: PEC 27
+PEC 29 INTRODUCTION TO HATHA YOGA
+PEC 30 SWIMMING FOR NON-SWIMMERS AND BEGINNERS
PEC 31 ADVANCED LIFESAVING
+PEC 32 WATER SAFETY INSTRUCTOR
+PEC 36 BEGINNING SAILING
   Costs for activities will be paid by the student.
PEC 37 INTERMEDIATE SAILING
   Costs for activities will be paid by the student.
   Prerequisite: PEC 36
+PEC 38 MODERN DANCE TECHNIQUES
PEC 39 MODERN DANCE COMPOSITION
PEC 40 PHYSICAL EDUCATION FOR MATURE ADULTS
PEC 41 INTERMEDIATE SWIMMING

+ Basic Course
Men’s Activities

All the following courses meet for 2 hours a week and earn 1 credit each semester.

+ PEM 1 FUNDAMENTALS OF FITNESS AND CONDITIONING
+ PEM 2 BASEBALL
  Spring
+ PEM 3 TOUCH FOOTBALL
  Fall
+ PEM 5 BASKETBALL TECHNIQUES
+ PEM 6 SOFTBALL AND VOLLEYBALL
  Spring
+ PEM 7 SOCCER TECHNIQUES
  Fall
+ PEM 8 POWER VOLLEYBALL
+ PEM 19 BEGINNING GYMNASTICS—MEN’S EVENTS

Women’s Activities

All the following courses meet for 2 hours a week and earn 1 credit each semester.

+ PEW 1 FIGURE CONTROL AND BODY CONDITIONING
+ PEW 2 BASKETBALL
+ PEW 6 SOFTBALL
+ PEW 7 POWER VOLLEYBALL
+ PEW 10 BEGINNING GYMNASTICS—WOMEN’S EVENTS
RECREATION LEADERSHIP

+REC 11 INTRODUCTION TO RECREATION 3 crs. 3 hrs.
This introductory course to the historical and philosophical foundations of recreation and leisure includes study of institutions providing recreation services, and the socio-economic factors which influence the growth and development of recreation. For Recreation Leadership Majors only.

REC 12 RECREATION LEADERSHIP PRINCIPLES 3 crs. 3 hrs.
The importance of obtaining knowledge of human dynamics, leadership abilities and related techniques of teaching recreational skills are stressed during this course. Recreation leadership, personnel practices and policies and techniques of supervision are presented. Pre or Corequisite: REC 11

+REC 13 SOCIAL RECREATION 3 crs. 3 hrs.
In this course, students are taught how to conduct, plan and program social recreation activities in camps, centers, clubs, institutions and playgrounds. Under supervision, individual leadership abilities are developed and performance is evaluated.

+REC 14 OUTDOOR RECREATION 2 crs. 2 hrs.
Trends in outdoor recreation are traced in this course. The place of the recreation leader in outdoor programs, the scope and extent of programs in conservation, camping, aquatics and nature are considered. A weekend camping trip is required.

+REC 15 SUMMER CAMP LEADERSHIP 2 crs. 2 hrs.
This course aims to prepare students as future camp counselors by presenting a basic camping philosophy, examining camping objectives, studying problems in the camping field, and providing opportunities to acquire skills and leadership essential in camp life. A weekend camping trip is required.

REC 16 METHODS AND MATERIALS FOR TEACHING FOLK AND SQUARE DANCE 2 crs. 2 hrs.
In this course students become familiar with basic dance movements, dance positions, dance etiquette and dance terminology, and learn how to teach and direct folk and square dances in various forms. For Recreation Leadership Majors only.

+REC 20 EDUCATION FOR LEISURE 3 crs. 3 hrs.
The course deals with the basic ideas and problems of leisure that confront contemporary society. Students are encouraged to develop concepts concerning leisure for today and for the future. They are also helped to develop attitudes toward the use of leisure time which will create beneficial living patterns.

+Basic Course
REC 31 RECREATION FOR SPECIAL POPULATIONS  
3 hrs. 3 crs.
The philosophy and history of therapeutic recreation is studied during this course. Class discussions consider areas of disability, physical development, psychological and emotional problems and social adjustment. Attitudes toward the disabled are examined and attempts are made to rectify those founded on myth and misinformation. Students are taught medical terms, the role of therapeutic recreation as part of the rehabilitation team's efforts and how to plan recreation programs to fit the needs and capabilities of specific disabilities.  
Prerequisite: REC 12

REC 32 ORGANIZATION OF A RECREATION PROGRAM  
3 hrs. 3 crs.
The underlying principles for effective recreation programming are presented in this course. An overview of the operation of recreation facilities, including budget, public relations, records, reports, equipment and evaluation is included.  
For Recreation Leadership Majors only.  
Prerequisite: REC 12

+ REC 33 SKILLS IN ARTS AND CRAFTS  
2 hrs. 2 crs.
The course provides students with opportunities to learn skills with various materials and to teach the use of clay, paper, paint, yarn, wire, soap and wood. Emphasis is on encouraging creativity and providing enjoyment for all ages and special groups.

REC 34 METHODS AND MATERIALS IN ARTS AND CRAFTS  
3 hrs. 3 crs.
The purpose of this course is to provide students with the maximum skill levels in arts and crafts projects while emphasizing the recreational values inherent in different programs. Stress will be placed upon the different techniques necessary for the proper presentation of arts and crafts programs to groups of different ages and physical abilities. Students will learn different methods of teaching the developed skills to such special groups.  
For Recreation Leadership Majors only.

REC 35 RECREATION FOR THE AGING AND MENTALLY RETARDED  
3 hrs. 3 crs.
The course deals with two special populations—the aging and the mentally retarded. In the area of the aging, the course examines biological, psychological, and sociological aspects of aging. Through this study, students gain an understanding of the aging process and the problems affecting the aged, and become able to furnish recreational services for their benefit.  
The mental retardation area provides students with knowledge of the social, emotional, physical and intellectual characteristics and problems of an individual with retarded mental development. Through guidelines developed in the course students will be able to diagnose recreative functioning, understand leadership techniques and plan recreation programs for the mentally retarded.  
For Recreation Leadership Majors only.  
Prerequisite: REC 31

+ Basic Course
REC 37 COMMERCIAL AND INDUSTRIAL RECREATION 3 crs. 3 hrs.
This course examines the trends, programs and special skills involved in commercial and industrial recreation settings. The course will focus on the history, development, administrative patterns and programs in these two areas.
Prerequisite: REC 12

REC 40 SPORT AND AMERICAN SOCIETY 3 crs. 3 hrs.
Students will become acquainted with the development of selected sports in America and of the numerous controversial contemporary issues in sport.

REC 91 FIELD EXPERIENCE IN RECREATION LEADERSHIP I 3 crs. 6 hrs.
Students are assigned to supervised field work in a variety of recreation agency settings in the community. The course includes one hour seminar, student field reports and class discussions of these experiences.
For Recreation Leadership Majors only.
Prerequisites: REC 11, 12, 13, 16, 34

REC 92 FIELD EXPERIENCE IN RECREATION LEADERSHIP II 3 crs. 6 hrs.
This advanced field experience program involves increased student participation in the work of the assigned recreation agencies, assignment to a second type of agency for varied experience, and includes one hour seminar.
For Recreation Leadership Majors only.
Prerequisite: REC 91
COMPUTER PROGRAMMING

COMPUTER PROGRAMMING courses offered as electives to all students

+CP 29 AN INTRODUCTION TO COMPUTER PROGRAMMING FOR SECRETARIAL SCIENCE STUDENTS 4 crs. 4 hrs.

This course introduces students to programming in the BASIC language. More emphasis will be placed on string and character manipulation and less on mathematical programming. Students receive hands-on experience using one or more of the following microcomputers: the Apple, the Pet, the North Star, or the TRS 80 Radio Shack Computer. Disk operations and proper use of a printer for producing hard copy will also be emphasized.
Open only to Secretarial Science majors.
Prerequisite: Elementary Algebra or MAT R2, or score of 25 or higher on Math Placement Exam.

+CP 30 INTRODUCTION TO BASIC 4 crs. 4 hrs.

BASIC is a general-purpose computer language used in both conversational mode and time-sharing computer centers. It is a simple and natural language requiring a minimum of programming skills, yet bringing about an appreciation of the power of a computer. In this “hands-on” course, with direct interaction between students and the computer, problems in mathematics, the sciences and the social sciences are explored to awaken and augment student interest in the problem areas of today’s civilization.
Prerequisite: MAT 03 or Intermediate Algebra

CP 35 INTRODUCTION TO APL 4 crs. 4 hrs.

APL is a computer language developed about 15 years ago primarily for application in Math and Science. As the development of the language continued, it was realized that its capability was broad enough to encompass a variety of disciplines, including Business, Computer Assisted Instruction (in such things as spelling, arithmetic, languages, etc.), text analysis, statistical analysis, etc. The reason this language is so important is that it has the capability of doing with one instruction what it would take 10 or more instructions to do in FORTRAN, for example. Over 70% of all programming at IBM is now in APL. It is the language of the future because it is far more efficient than many other programming languages.
Prerequisite: 11th Year Math through Intermediate Algebra or MAT 03.

+CP 50 INTRODUCTION TO PROGRAMMING 3 crs. 3 hrs.

An introduction to RPG (Report Program Generator) programming. This language will enable the student to write programs which will produce a wide variety of business reports. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center’s IBM 3033 and Amdahl 470.
Data Processing majors will not receive credit for this course.
Prerequisite: Elementary Algebra or MAT 01, or MAT R2

+CP 51 PROGRAMMING IN FORTRAN IV 4 crs. 4 hrs.

An introduction to programming including flow-charting using the FORTRAN IV program language. Examples are from business and mathematical applications. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center’s IBM 3033 and Amdahl 470.
Computer Science majors will not receive credit for this course.
Prerequisite: Three years of high school mathematics including Intermediate Algebra or Eleventh Year Math or MAT 03

+Basic Course
+CP 52 INTRODUCTION TO COBOL PROGRAMMING 4 crs. 4 hrs.

An introduction to programming using Common Business Oriented Language. Typical business applications will be considered. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470. This course is recommended as an elective for students who wish to learn how to program a computer using a language which is oriented to the solution of business problems. Data Processing majors will not receive credit for this course.

Prerequisite: MAT 01 or Elementary Algebra or MAT R2

+CP 53 PL/1 PROGRAMMING 4 crs. 4 hrs.

A detailed study of PL/1 programming during which business and scientific applications will be considered. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470. Recommended as an elective for Data Processing and Computer Science majors.

Prerequisites: Intermediate Algebra, or MAT 03 and a course in a programming language (FORTRAN, COBOL, or ASSEMBLER)

CP 54 INTRODUCTION TO PASCAL 4 crs. 4 hrs.

In this introduction to programming in Pascal, students will write and run several scientific and commercial programs. This course also serves as a preparation for other high-level languages.

Prerequisites: Familiarity with one programming language and Intermediate Algebra or its equivalent.
COMPUTER SCIENCE

+CS 13 INTRODUCTION TO COMPUTING  
4 crs. 4 hrs.

Corequisite: MAT 15

CS 14 COMPUTERS AND ASSEMBLER LANGUAGE PROGRAMMING  
5 crs. 5 hrs.

Computer structure, machine language and assembler language programming. Digital representation of data; addressing techniques; macro, machine and assembler instruction sets. Emphasis on computing techniques for numerical applications will be supplemented by several computer projects. Programs written by students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470.
Prerequisite: CS 13

CS 35 MATHEMATICAL PROGRAMMING I  
5 crs. 5 hrs.

The first part of this one-year course introduces numerical analysis and programming, covers solution of an equation, solution of sets of linear and non-linear equations, and matrix operations including inversion. FORTRAN IV or a similar sophisticated compiler is applied for the solution to these problems.
Prerequisites: CS 14 and MAT 16
Corequisites: MAT 21 and 55 or 56

CS 36 MATHEMATICAL PROGRAMMING II  
4 crs. 4 hrs.

This second semester of the two-semester course includes the study of finite differences, quadrature and numerical solutions of differential equations and eigenvalues. In each case, error analysis is stressed.
Prerequisites: CS 35 and MAT 21
Corequisite: MAT 55 or 56

CS 81 INDEPENDENT STUDY  
1-3 crs. 1-3 hrs.

Independent study of Computer Science is developed individually between student and faculty member and must be approved by the Department.

CS 82  
1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
DATA PROCESSING (COMPUTER PROGRAMMING)

DATA PROCESSING courses do not satisfy Group V requirements.

+DP 11 INTRODUCTION TO DATA PROCESSING  
4 crs. 4 hrs.
A thorough introduction to data processing, including a brief introduction to unit record equipment. Students in this course receive a detailed introduction to the concepts, structure and operation of electronic data processing systems including such topics as components of a computer system; input/output devices; principles of arithmetical operation, decimal, binary and hexadecimal; coding representations of information in computers; flowcharting and coding of problems; machine language and assembler language programming; a brief introduction to procedure-oriented languages such as FORTRAN and COBOL.
A hypothetical computer is introduced so as to present the basic concepts of machine and assembler language programming in a relatively simple environment. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470.
Prerequisite: MAT 01, 05 or Elementary Algebra

DP 12 ASSEMBLER LANGUAGE PROGRAMMING  
5 crs. 5 hrs.
A detailed study of assembler language programming. Typical business applications will be considered. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470.
Prerequisite: DP 11

DP 13 ADVANCED ASSEMBLER LANGUAGE PROGRAMMING: IBM SYSTEM/360  
4 crs. 4 hrs.
A detailed study of advanced assembler language programming techniques and sophisticated applications. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470.
Prerequisite: DP 12

DP 31 COBOL PROGRAMMING  
5 crs. 5 hrs.
A detailed study of COBOL programming including magnetic tape programming. Typical business applications will be considered. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center's IBM 3033 and Amdahl 470.
Prerequisite: DP 11, 12, or permission of the Department

+Basic Course
DP 32 ADVANCED PROGRAMMING

Magnetic disk programming.
A thorough introduction to the IBM System/360 disk operating system, including such topics as: System control and system service programs (such as the supervisor, job control and the linkage editor); interaction of the control program and the problem program within the systems environment; program libraries; data management and IOCS; supervisor and input/output macros; sequential access method; indexed sequential file management system; direct access method; utility programs; multiprogramming considerations; system generation.
Prerequisites: DP 12 and 31

DP 41 RPG PROGRAMMING

A detailed study of RPG (Report Program Generator) programming. This language enables students to write programs which will produce a wide variety of business reports. Programs written by the students will be run on the remote job entry communication network connected to the University Computer Center’s IBM 3033 and Amdahl 470.
Prerequisite: DP 11

DP 61 SYSTEMS ANALYSIS

This course introduces the tools and methods used by management to develop systems for computer applications. Topics covered are: Systems investigation, input design, output design, file design, documentation, system testing, system implementation, hardware and software.
Prerequisite: DP 12 or 31

DP 63 DATABASE PROCESSING

This course includes: Concepts and structures necessary to design and implement a database management system (DBMS); Physical file organization and data organization techniques; Network, hierarchical and relational models applied to DBMS; the CODASYL DBTG model; Commercial DBMS systems. Students will use a database management system on the CUNY computer system network.
Corequisite: DP 32 or, CS 36 or, permission of the Department

DP 81 INDEPENDENT STUDY

Independent study of Data Processing is developed individually between student and faculty member and must be approved by the Department.

DP 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
MATHEMATICS

MAT R1 BASIC MATHEMATICS
0 hrs. 4 hrs. 0 hrs.
(4 equated credits)

A course in arithmetic for students who are deficient in that subject. Classroom instruction plus individualized and small group instruction in the appropriate Skills Laboratory are designed to prepare students for MAT R2.

Required of all students who obtain a grade of 14 or less on the mathematics portion of the CUNY mathematics examination.

MAT R2 INTRODUCTORY MATHEMATICS
0 hrs. 5 hrs. 0 hrs.
(5 equated credits)

A course in introductory algebra for students who fall below the CUNY examination score in that subject. Classroom instruction, plus individualized and small group instruction in the appropriate Skills Laboratory are designed to prepare students for that examination.

Required of all students who obtain a grade of 20 or less on the mathematics portion of the CUNY mathematics examination. During their first semester Freshmen who scored between 21 and 24 on the mathematics test should use the Tutoring services, and the skills material in the Media Center and Math Skills Laboratory to upgrade their skills.

MAT 01 ELEMENTARY ALGEBRA
0 hrs. 4 hrs. 0 hrs.
(4 equated credits)

A comprehensive treatment of the topics outlined for the Ninth Year course by the University of the State of New York, and some topics in geometry.

Not open to students who have taken MAT 05 or equivalent.

MAT 03 ELEVENTH YEAR MATHEMATICS
0 hrs. 4 hrs. 0 hrs.
(4 equated credits)

Same course as Eleventh Year Mathematics in high school.

Prerequisite: MAT 01, R2, 05, or Elementary Algebra

MAT 2 BASIC CONCEPTS OF STATISTICS
3 hrs. 4 hrs. 0 hrs.
(4 equated credits)

This course introduces students to the rationale of statistical methods in an intuitive way. Students are expected to learn by doing. Most of the computation is done by use of calculators/time-sharing terminals. Topics include mean, median, mode, standard deviation, histograms, hypothesis testing, and confidence intervals.

Not open to students who have taken MAT 03, or Intermediate Algebra.

Prerequisite: Competence in Mathematics Placement Examination or "A" or "B" grade in MAT 01, R2, or 05

+ Basic Course

□ Remedial Course
+MAT 3 BUSINESS AND CONSUMER MATHEMATICS  
3 crs. 3 hrs.
Course topics include: credit cards; automobile, life, health and property insurance; compound interest; savings plans; mortgages; checkbook records; taxes and income tax forms. Recommended for all non-transfer students.
Not open to students who have taken Intermediate Algebra or MAT 03.
Prerequisite: Competence in Mathematics Placement Exam.

+MAT 6 MATHEMATICS OF FINANCE  
4 crs. 4 hrs.
This course provides mathematical concepts readily applicable to business situations. Topics include: logarithms, progressions, simple and compound interest, equations of equivalence, nominal and effective rates, simple annuities, ordinary general annuities, amortization, depreciation, sinking funds, stocks and bonds, introduction to life insurance and graphic presentation of data.
Prerequisite: Intermediate Algebra or MAT 03

+MAT 7 PRINCIPLES OF MATHEMATICS  
4 crs. 4 hrs.
A basic course in mathematical discovery during which student participation is emphasized in the development and investigation of topics such as: number sequences, calculating devices, extrapolation, mathematical mosaics and curves, probability and topology.
Not open to students who have taken a mathematics course number 11 or higher or Intermediate Algebra or MAT 03.
Recommended for transfer and non-transfer students.
Prerequisite: MAT 01, R2, or 05, or Ninth Year Mathematics

+MAT 8 MATHEMATICS—AN HISTORICAL SURVEY  
3 crs. 3 hrs.
Topics are presented in an historical setting and include numerical systems, sets, number bases, logic and mathematical systems.
Recommended as an alternate or sequence course to MAT 7.
Not open to students who have taken a mathematics course number 11 or higher or Intermediate Algebra or MAT 03.
Prerequisite: MAT 01, R2, or 05, or Elementary Algebra

+MAT 9 UNDERSTANDING MATHEMATICS: A PRACTICAL APPROACH  
4 crs. 4 hrs.
Course primarily designed for Educational Associate Program students. Mathematics laboratory equipment is used to gain insight into basic mathematics concepts and principles which are further developed through formal discussions and the completion of a required term project.
Prerequisite: MAT 01, R2, or 05

+MAT 10 COLLEGE TRIGONOMETRY  
2 crs. 2 hrs.
This course includes functions, graphing techniques, angle measurement, functions of right angles, linear interpolation, inverse functions, laws of Sines and Cosines, circular functions, formulas, identities, waves and conditional equations.
Open to students who have had intermediate algebra, but no trigonometry. It can be taken with, or before, MAT 14, and with MAT 14, will prepare the student adequately for MAT 15.

*Basic Course*
+MAT 11 FINITE MATHEMATICS

Course includes analysis of polls, linear programming by graph, introduction to probability, games and game theory, Markov chains, growth and decay problems, savings plans, annuities, amortization and other problems in the mathematics of management, such as PERT, simulation and forecasting. Calculators and/or minicomputers are used to do calculations. Designed as an elective for liberal arts or business students interested in some practical problems solved by mathematics.

Prerequisite: MAT 03, or Eleventh Year Mathematics

+MAT 12 CONCEPTS OF MODERN MATHEMATICS I

A basic course designed to introduce A.A. and A.A.S. students to the beauty and structure of mathematics and to recent developments in the field. Topics include the Fundamental Theorem of Arithmetic, the Euclidean Algorithm, network theory, tiling and congruences. Recreational mathematics is also introduced.

Students may take MAT 12 and/or MAT 13 during the same or different semesters in either order.

Prerequisite: Intermediate Algebra, or MAT 03, or "A" Grade in MAT 7

+MAT 13 SURVEY OF MATHEMATICS AND COMPUTER CONCEPTS

This course is designed to introduce A.A. and A.A.S. students to several branches of mathematics. Topics include probability and statistics, computer programming, logic, the real number system, and linear programming.

Students may take MAT 12 and/or MAT 13 during the same or different semesters in either order.

Prerequisite: Intermediate Algebra or MAT 03 or "A" grade in MAT 7

+MAT 14 ANALYTIC GEOMETRY AND PRE-CALCULUS MATHEMATICS

This pre-calculus course stresses real numbers, fields, open sentences, functions and relations, and serves as an introduction to analytic geometry and to probability. Recommended for students planning to continue with calculus and/or mathematics electives.

Not open to students who completed Advanced Algebra or MATH 12A in high school.

Prerequisite: Eleventh Year Mathematics or MAT 03

MAT 15 CALCULUS I

This is the first part of a three-semester integrated course in the elements of coordinate geometry, differential and integral calculus, with applications. Emphasis here is on algebraic functions of a single variable. Among topics to be covered are the derivative, differentiation formulas, and application to geometry, physics and maximization.

Not open to students who have completed at least one term of calculus in high school.

Prerequisite: Advanced Algebra, 12th yr. High School Math or MAT 14

MAT 16 CALCULUS II

A continuation of MAT 15, with the emphasis placed on transcendental functions, special methods of integration, and hyperbolic functions.

Prerequisite: One term of High School Calculus or MAT 15

+Basic Course
MAT 20 ELEMENTS OF STATISTICS

This course introduces students to probability and statistics, and includes tabulation and graphing of distributions, central and dispersion tendencies, comparison techniques, correlations and predictive techniques. Instruction and practice in the use of desk calculators and the basic language is included. Recommended for students planning careers in economics, education, psychology, sociology, data processing, and environmental technology.

Prerequisite: Intermediate Algebra, MAT 03

MAT 21 CALCULUS III

This continuation of MAT 16 places emphasis on partial differentiation, polar coordinates, multiple integration, solid geometry, vectors, and hyperbolic functions.

Prerequisite: MAT 16 with "C" grade or better

MAT 22 CONCEPTS OF MODERN MATHEMATICS II

A continuation in greater depth of MAT 12. This course includes some independent reading under the guidance of the Instructor to introduce students to research mathematics.

Prerequisite: MAT 12 or 13 with "B" grade or better, or permission of the Department

MAT 23 HISTORY OF MATHEMATICS

An introduction to the history of mathematics from Babylonian and Egyptian civilization to the present time. Course emphasis is on mathematics as a cultural force in the development of Western civilization. Recommended for prospective teachers of junior high school and secondary school mathematics.

Not open to students who have completed MAT 8.

Prerequisite: MAT 11 or higher

MAT 24 INTRODUCTION TO THE THEORY OF NUMBERS

This course covers the classical number theory, and such related topics as divisibility, congruences, quadratic residues, continued fractions, Diophantine equations, prime and perfect numbers.

Prerequisite: MAT 11 or higher

MAT 37 INVESTIGATIONS INTO MATHEMATICS

In this introduction to the spirit of mathematical investigation, techniques of inductive and deductive reasoning are used to discover and then to prove useful facts concerning fundamental mathematical structure.

Prerequisites: MAT 03 and Intermediate Algebra

MAT 55 DIFFERENTIAL EQUATIONS

This course delves into the solution of ordinary linear differential equations, operational techniques, solution by series, numerical solutions, Laplace transforms, and applications in engineering and the sciences.

Prerequisite: MAT 16 or 18 with "C" grade or better
MAT 56 LINEAR ALGEBRA
3 crs. 4 hrs.
This course consists of a study of vector spaces, matrix algebra transformations, and vector analysis.
Prerequisite: MAT 15 or 17 with "C" grade or better

MAT 81 INDEPENDENT STUDY
1-3 crs. 1-3 hrs.
Independent study of Mathematics is developed individually between student and faculty member and must be approved by the Department.

MAT 82
1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
MUSIC

+MUS 21 INTRODUCTION TO JAZZ
3 crs. 3 hrs.
An historical approach to the jazz idiom through readings and guided listening.

+MUS 22 CONTEMPORARY MUSIC
3 crs. 3 hrs.
The course surveys music from the late 19th century to the present. It includes European and American composers. Attention is given to American compositions in both the traditional and vernacular idioms.

+MUS 30 RUDIMENTS OF THEORY
3 crs. 3 hrs.
This course is for students who have no previous musical training but are interested in acquiring basic skills in music reading, writing and performance.

+MUS 31 INTRODUCTION TO MUSIC
3 crs. 3 hrs.
Included in this course is the development of perceptive awareness of music through guided listening. Materials and forms of music and their use in musical literature are studied.

MUS 91 CHORUS
1½ cr. 3 hrs.

MUS 92 BAND
1½ cr. 3 hrs.

MUS 93 ORCHESTRA
1½ cr. 3 hrs.
Students may enroll for more than one of the above performing groups. However, credit is allowed for only one activity.

+Basic Course
COURSES FOR MUSIC MAJORS

Courses listed for Music majors may be open to other students with the permission of the Department.

+ MUS 1 BASIC SKILLS: THEORY

A review of basic skills in Music Theory and Ear Training.

1 cr. 2 hrs.

+ MUS 2 BASIC SKILLS: PIANO I

A beginning piano course for music majors.

1 cr. 1 hr.

+ MUS 3 BASIC SKILLS: PIANO II

The second piano course in this sequence for music majors.

Prerequisite: MUS 2

1 cr. 1 hr.

MUS 1, 2, and 3 required of Music majors who have not demonstrated competency in these areas.

MUS 32 THEORY OF MUSIC I

3 crs. 3 hrs.

Students in this course study the diatonic tonal system. Scales, intervals, chordal construction in various positions, chord relationships and successions, melodic construction and analysis, voice-leading techniques, metric and rhythmic organizations of figured-bass exercises and melodies are included. Relevant techniques in representative melodies and in traditional repertoire are analyzed.

Prerequisite: MUS 1 or permission of the Department

Corequisite: MUS 36

MUS 33 THEORY OF MUSIC II

3 crs. 3 hrs.

During this continuation of MUS 32, tones of figuration (passing-tones, neighboring-tones, leaps, suspension and anticipation techniques), chords of the seventh and ninth, applied (secondary) dominant techniques in traditional musical repertoire are studied.

Prerequisite: MUS 32

MUS 34 THEORY OF MUSIC III

3 crs. 3 hrs.

This continuation of MUS 33 includes diatonic harmony, two or three part counterpoint, chromaticism and the harmonization of melodies in various styles.

Prerequisite: MUS 33

MUS 35 THEORY OF MUSIC IV

3 crs. 3 hrs.

A continuation of MUS 34, this semester is an advanced study and application of music theory learned in previous classes.

Prerequisite: MUS 34

MUS 36 EAR TRAINING I

2 crs. 2 hrs.

Fundamentals of notation, rhythms, key signatures, tempo and dynamics, are studied with practice in elementary sight-singing and dictation. This course is designed to enable students to sing melodies at sight and to develop hearing perception.

Prerequisite: MUS 1 or permission of the Department

Corequisite: MUS 32

+ Basic Course
MUS 37 EAR TRAINING II

During this continuation of MUS 36 students are involved in sight-singing and dictation of melodies, rhythm, harmony, major and minor modes, intervals and chords, and rhythmic patterns.

Prerequisite: MUS 36

2 crs. 2 hrs.

MUS 38 EAR TRAINING III

A continuation of MUS 37 during which sound recognition and sight-singing is applied to the principles of theory. Analysis of melodic construction and harmonization, study of form in music, regular and irregular rhythms are included.

Prerequisite: MUS 37

2 crs. 2 hrs.

MUS 39 EAR TRAINING IV

A continuation of MUS 38. This course includes advanced study and application of ear-training learned in previous classes.

Prerequisite: MUS 38

2 crs. 2 hrs.

MUS 51 MUSIC LITERATURE I

Spring

Analytical study of cadences and phrase structures, utilizing monophonic and homophonic examples is made in the course. Included is formal analysis of chorales, piano miniatures and art songs in simple (binary and ternary) forms, and freer types (keyboard preludes and fantasies). Several kinds of variation and compositions in rondo form are examined. Symphonic works are utilized and the suite is studied as a complete form.

Prerequisite: MUS 32

3 crs. 3 hrs.

MUS 52 MUSIC LITERATURE II

Fall

Study in this advanced course includes analysis of various types of canons, inventions and motets, the fugue and sonata form as applied in literature for the keyboard, chamber combinations, and symphony orchestra, and the extension of rondo and figure forms to the Baroque concerto. Simpler concertos by Corelli, Vivaldi, and Bach are studied, as well as relatively uncomplicated keyboard, chamber and symphonic works by Haydn, Mozart, Beethoven, and Schubert. Fugues from Bach’s “Well-Tempered Clavier” and “Art of the Fugue” are examined.

Prerequisite: MUS 32

3 crs. 3 hrs.

MUS 60, 61, 62, 63 PERFORMANCE AND PRACTICE

4 crs. 3 hrs.

plus private instruction

A four-semester sequence during which students are given a private lesson each week and are required to participate in Orchestra, Chorus, or Band. Acceptance into the course is based on an audition to demonstrate the students’ readiness to begin work on the literature of the first semester. (Guidelines regarding minimum preparation are available from the Music Department.)

At the end of each semester students perform before a jury. Students who fail this examination may not continue the course sequence. Under special circumstances, petition for a new audition will be considered. Courses in the sequences described may not be repeated.

A.S. Degree
MUSIC
Requirements—Page 71
The following courses are open ONLY to students in the CUNY BA program in Music.

**MUS 4 PIANO I**

A beginning course for music majors in the CUNY BA program.  
**1 cr. 1 hr.**

**MUS 5 PIANO II**

The second course in this sequence for music majors in the CUNY BA program.  
**1 cr. 1 hr.**

**MUS 12 HARMONY AND COUNTERPOINT I**

Corequisite: MUS 16  
**3 crs. 3 hrs.**

**MUS 13 HARMONY AND COUNTERPOINT II**

A continuation of MUS 12 includes: Two-part canon; Imitative counterpoint; Basic principles of 18th-century counterpoint; Invention technique; Continuation of 18th-century functional harmony; Seventh chords, secondary dominants, and modulations to closely related keys; Chorale harmonization; Traditional uses of the augmented-sixth chord and the chord of the Neapolitan sixth.  
Prerequisite: MUS 12  
Corequisite: MUS 17  
**3 crs. 3 hrs.**

**MUS 14 CHROMATIC HARMONY**

A practical and analytical approach to the study of the harmonic techniques used in the music of Chopin, Schumann, Liszt, Wagner, and Brahms. Topics covered include modal mixture, non-functional uses of seventh chords, chromatic medians, modulation to distant keys and chromatic uses of augmented-sixth and diminished-seventh chords.  
Prerequisite: MUS 13  
Corequisite: MUS 18  
**3 crs. 3 hrs.**

**MUS 15 20th CENTURY MUSIC THEORY**

An introduction to some of the types of organization used in the music of this century. Analysis of music by Debussy, Stravinsky, Bartok, Ives, Hindemith, Webern, and Cage. Practical exercises in strict composition after the model of the various 20th-century pieces.  
Prerequisite: MUS 14  
Corequisite: MUS 19  
**3 crs. 3 hrs.**
MUS 16 EAR TRAINING I
2 crs. 2 hrs.
Training for aesthetic aural perception of music. Concentration on recreating (through sight-singing) and identification (through dictation) of diatonic melodies in major and minor using common simple and compound meters and rhythmic patterns. Musicianship, as well as accuracy, will be stressed. 
Corequisite: MUS 12

MUS 17 EAR TRAINING II
2 crs. 2 hrs.
Continuation of MUS 16. New topics include modulation, chromaticism, modes, and contemporary syncopation. Dictation of harmonic progressions will include all diatonic harmonies in major and minor.
Prerequisite: MUS 16
Corequisite: MUS 13

MUS 18 EAR TRAINING III
2 crs. 2 hrs.
Continuation of MUS 17. New topics include advanced chromatic usage in melody and harmony, Complex rhythmic problems, and the recognition of intervals without tonal orientation. Four-part chorale dictation will be introduced through two-part dictation, progressing through four-part dictation of primary triads.
Prerequisite: MUS 17
Corequisite: MUS 14

MUS 19 EAR TRAINING IV
2 crs. 2 hrs.
Continuation of MUS 18. Increasingly complex rhythmic and chromatic problems, leading to metrically ambiguous atonal melodies. Four-part chorale dictation will conclude with complete settings of Bach chorales.
Prerequisite: MUS 18
Corequisite: MUS 15

MUS 65, 66, 67, 68 PERFORMANCE AND PRACTICE
4 crs. 3 hrs.
plus private instruction
A four-semester sequence during which students are given a private lesson each week and are required to participate in Orchestra, Chorus, or Band. Acceptance into the course is based on an audition to demonstrate the students' readiness to begin work on the literature of the first semester.
NURSING

Requirements for students matriculated in the Nursing Curriculum as of September 1981.

A limited number of highly qualified and motivated students are admitted into the KCC Nursing Program. Students whose applications are accepted for the Nursing Curriculum must meet the following:

A. Completion of the following Pre-Nursing sequence of four courses:
   ENG 12, ENG C2, or, ENG 22 if exempted from ENG 12
   PSY 11; BIO 11; SCI 25
B. Completion of these four courses with either a 2.5 grade point average or, 2 B's (one of which must be in SCI 25 or BIO 11) and 2 C's:
C. Students who repeat courses in the Pre-Nursing sequence due to unsatisfactory initial grades must achieve an index of 2.5 based on ALL COURSES taken in this sequence.
D. Satisfactory score on an examination to be approved by the CUNY Board of Trustees

Based on their College placement test scores, students must complete any required remediation prior to completion of the above four courses.

Up to 5% of the students who are admitted to the Nursing curriculum may be allowed directly into the first Nursing course and can thus complete the program in four semesters. These students are selected on the basis of their high school admission average and Nursing Department approval.

Group Requirements are specific in the Nursing Program Curriculum.

Requirements for change of Curriculum into Nursing*

(For those students who entered the college on or after September 1, 1975):
   I. Matriculated status
   II. Good academic standing
   III. Completion of Pre-Nursing sequence of four courses with acceptable grades. (see A and B and C)
   IV. Permission of the Department Chairman. Entrance into Nursing courses after the above three criteria are met is then dependent on the results of the examination to be approved by the CUNY Board of Trustees.
   V. Before they can be accepted into the Nursing program, students who were not originally admitted into the college as Pre-Nursing students must file a “Curriculum Change” form. This form, which is available in the Registrars Office (A101) must be filed during the semester in which the student expects to complete the Pre-Nursing course sequence.

Students accepted into the Nursing Program who are Licensed Practical Nurses may receive credit for NUR 18 (Fundamentals of Nursing) by passing the State Education Department College Proficiency Examination in “Fundamentals” with a score of 55 or better. Information may be obtained in the Nursing Office (T4122).

*The College does NOT guarantee such curriculum change and reserves the right to limit entrance into any curriculum, subject to available space and financial ability.

Retention Criteria

Criteria for retention in the Program mandates that students must:
   a. earn a minimum final grade of “C” in every Nursing course in a required sequence;
   b. receive no more than two grades under “C” in any Nursing course or in any pre or corequisite courses;
   c. receive no more than two grades under “C” in any pre or corequisites: no more than one grade under “C” in the Sciences: no more than one grade under “C” in Psychology and Sociology;
   d. repeat any Nursing course for which a “D” or “F” grade was received.

Any course presented by the Nursing Department may be repeated only once.
Drug Calculation Policy

NUR 17, "Drug Calculations in Nursing," is a corequisite of NUR 18 and a prerequisite to all other nursing courses. Throughout the rest of the program, drug calculation skills will be tested each semester.

Beginning with the second semester (NUR 21) promotion to the next semester requires a "C" or better in the nursing course(s) and a passing grade of 80% in the Drug Calculations Test given during that semester.

A student who receives a "C" or better in the nursing course(s) but who does not pass the Drug Calculation Test will receive credit for the course(s) but will not be allowed to register for further nursing courses or to graduate until a Drug Calculations Test for that semester has been passed.

In the second semester (NUR 21) and third semester (NUR 20 and NUR 22) students who have failed the first test will be offered a retest, (a total of two opportunities to pass a test during the semester). In the fourth semester (NUR 19 and NUR 23) one test will be offered in each mini course.

A student who fails both tests in a semester, or fourth semester mini courses, will be offered a third test in the winter or summer module immediately following that semester.

Failure to pass the third test will result in the student's dismissal from the Nursing Program.

Malpractice Insurance

Students entering nursing courses must carry malpractice insurance. Information is available in the Nursing Office (T4122).
Nursing Courses Must Be Taken in the Following EXACT Sequence:

**+NUR 17 DRUG CALCULATIONS IN NURSING** 1 cr. 1 hr.

This course, required for Nursing students, provides opportunities to acquire knowledge in computing medical dosages.

*Prerequisites: MAT 05, MAT R1, and/or MAT R2 if necessary
Corequisite: NUR 18 or equivalent

**+NUR 18 FUNDAMENTALS OF NURSING** 7 crs. 13 hrs.

This course serves to introduce the knowledge, skills, and understanding which are basic to nursing. The dependent and independent functions of a nurse practitioner are explored. Selected facts, principles, and concepts, derived from the biological and behavioral sciences, are applied to common elements of nursing care during lecture and laboratory sessions. Laboratory sessions may be off campus in hospitals or other health agencies.

*Pre or Corequisites: BIO 11, 12; PSY 11; SCI 25; ENG 12 or C2
Corequisite: NUR 17

**NUR 21 NURSING THE ILL ADULT I** 9 crs. 16 hrs.

This course is designed to present methods of nursing during illnesses which are major health problems to society. Nursing intervention, based on physiological and psychological needs of adult patients, is studied. Opportunities are provided in classroom and laboratory, to adapt and combine the nursing skills needed when caring for patients with health problems such as infectious processes, respiratory, cardio-pulmonary, nutrition, elimination disorders and accidents. Laboratory sessions may be off campus in hospitals or other health agencies.

*Prerequisites: NUR 17, 18
Pre or Corequisite: BIO 51

**NUR 20 NURSING THE EMOTIONALLY ILL** 4 crs. 7 hrs. (one-half semester)

This course introduces students to the intricacies of nursing individuals who have emotional illnesses. The major topics are organized to show how emotional illness affects the needs of the individual and the family. Lecture-discussions are used in the classroom and laboratory to relate concepts and principles of psychodynamics to the behavior of these patients. Laboratory sessions may be off campus in hospitals or other health agencies.

*Prerequisite: NUR 21
Pre or Corequisites: BIO 51; PSY 32
Recommended: SOC 31

**NUR 22 NURSING THE ILL ADULT II** 5 crs. 17 hrs. (one-half semester)

This lecture-laboratory continuation of NUR 21 is designed to present the concepts of illness upon which nursing intervention is based. Topics are organized to demonstrate how illness affects the needs of individuals, families and society. Selected major adult health problems discussed, are those of interference with normal cellular growth and with mobility. Emphasis is on concepts of long-term illness and rehabilitation. Laboratory sessions may be off campus in hospitals or other health agencies.

*Prerequisite: NUR 21
Pre or Corequisites: BIO 51; PSY 32
Recommended: SOC 31

+Basic Course 203
NUR 19 FAMILY-CENTERED MATERNITY NURSING

4 crs. 7 hrs.  
(one-half semester)

This course introduces students to family-centered maternity nursing. During lecture and laboratory sessions, facts, principles and concepts relevant to the care of individuals and families during the reproductive years of the life-cycle are discussed. Laboratory sessions may be off campus in hospitals or other health agencies.

Prerequisites: NUR 20, 22; BIO 51; PSY 32
Pre or Corequisite: SOC 31

NUR 23 NURSING OF CHILDREN

5 crs. 17 hrs.  
(one-half semester)

This course is designed to teach the special skills necessary for the nursing of children afflicted with illnesses that are major health problems to society. Topics are organized to show how the needs of children, from infancy through adolescence, are affected by illness. Laboratory sessions may be off campus in hospitals or other health agencies.

Prerequisites: NUR 20, 22; BIO 51; PSY 32
Pre or Corequisite: SOC 31

NUR 24 ISSUES IN NURSING

1 cr. 1 hr.

A survey of the role of the beginning nurse practitioner as an individual and as a member of the occupation of nursing. Selected major facts in the history of American nursing are discussed. Emphasis is placed upon legal aspects, issues and trends in nursing.

Open only to fourth semester nursing students.
NUR 41 EMERGENCY HEALTH CARE

The course introduces students to existing and potential environmental hazards, to the planning and implementation of precautions in daily living, to the basic structure and function of the healthy heart and circulatory system, the techniques of taking the vital signs, and teaches techniques of basic life support for cardiopulmonary emergencies. The course is designed to increase the students' knowledge of environmental hazards, to increase skills in identifying, preventing, and taking appropriate action(s).

NUR 42 PARENTING

An exploration of the attitudes and functions of the American family during the childbearing and child-rearing years. Discussion will relate to those areas of parenting that will assist in developing approaches to family life.

NUR 43 PERSPECTIVES ON DEATH AND DYING

The primary focus of this course is to examine the dynamics of death and dying for the purpose of understanding one's own feelings and attitudes so that meaningful assistance may be given to the dying individual and the family.

Prerequisites: PSY 11 and SOC 31

NUR 44 DIET IN HEALTH AND ILLNESS

An exploration of food and fluid intake. Cultural differences, age variables, and dietary modifications are examined.

Prerequisite: BIO 11

NUR 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
CHEMISTRY

+ CHM 01 PREVIEW OF GENERAL CHEMISTRY
0 cr. 2 hrs.
(2 equated credits)
Combined lecture and workshop course introduces students to chemical nomenclature, symbolism, structure of atoms and molecules, simple chemical reactions and basic stoichiometry. As needed, mathematics for these topics and solution of simple verbal problems, will be taught. Critical reading of chemistry texts are encouraged. Each student receives intensive help with weak areas.
Corequisite: MAT 03 or equivalent

+ CHM 11 GENERAL CHEMISTRY I
4 crs. 6 hrs.
In this two-semester classroom and laboratory course, the first term introduces students to chemical equations, stoichiometry, chemical nomenclature, atomic structure, periodic properties, bonding, (especially of carbon compounds), the gaseous, liquid and solid states, phase changes, electrolytes, and the properties of selected elements in relation to environmental problems.
Prerequisites: MAT 03 or equivalent, also CHM 01 or, competence on Department Placement Examination.

CHM 12 GENERAL CHEMISTRY II
4 crs. 6 hrs.
The second term continues with study of chemical kinetics, equilibrium, acids, bases, and salts, weak electrolytes and pH, solubility, thermochemistry, electrochemistry, and transition metal chemistry. Laboratory experiments give students a feeling for the classical and modern methods of chemistry.
Prerequisite: CHM 11

CHM 13 GENERAL CHEMISTRY LABORATORY
2 crs. 4 hrs.
This laboratory course was designed to meet the needs of respiration therapy students who have successfully completed the equivalent of one year of General Chemistry Theory at the Metropolitan Hospital School of Respiration Therapy and need the laboratory component. Upon successful completion of this course, credit would be granted for CHM 11-12.
Open only to students in the Metropolitan Hospital Respiration Therapy Program.

CHM 31 ORGANIC CHEMISTRY I
5 crs. 9 hrs.
Introduction to modern concepts of organic chemistry. These include structure and bonding, reaction mechanisms, stereochemistry, nomenclature and synthesis. The main focus is in the relationship between structure and reactivity of the functional groups representing the principal classes of organic compounds. Laboratory covers the fundamental operations of organic chemistry including determination of physical properties, experimental reactions and procedures and basic instrumentation and analysis.
Prerequisite: CHM 12
CHM 32 ORGANIC CHEMISTRY II

5 crs. 9 hrs.

A continuation of the study of structure and reactivity of organic compounds. Topics include structure and bonding, nomenclature, synthesis, stereochemistry and reaction mechanisms of the important functional groups of organic compounds. Laboratory consists of basic processes of organic chemistry including advanced instrumental methods, study of functional groups and derivatives and qualitative organic analysis. Select students may be introduced to research methods.

Prerequisite: CHM 31

CHM 81 INDEPENDENT STUDY

1-3 crs. 1-3 hrs.

Independent study of Chemistry is developed individually between student and faculty member and must be approved by the Department.

CHM 82

1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
GEOLOGY

+ GEO 31 METEOROLOGY 3 crs. 3 hrs.

In this introduction to the fundamental physical and chemical structure of the atmosphere, the topics covered deal with weather, climate, meteorological instrumentation, and air pollution.

+ GEO 32 PHYSICAL OCEANOGRAPHY 3 crs. 3 hrs.

Factors that have a major influence on the physical and chemical structure of the oceans are considered in this course. Topics covered deal with tides, waves, currents, oceanographic instrumentation and coastal oceanography.

+ GEO 33 PHYSICAL GEOLOGY 4 crs. 5 hrs.

Physical geology is a study of the nature of the Earth and its processes. During the course, students consider the following topics: mineral and rock classification; analysis of the agents of weathering and erosion; dynamics of the Earth's crust as manifest in mountain building, volcanoes and earthquakes; review of recent data concerning the geology of other planets; field and laboratory techniques of the geologist.

+ GEO 35 HISTORICAL GEOLOGY 3 crs. 3 hrs.

Presented in this course is the history of the geological development and changes of the planet Earth through the course of geological time as revealed by rock and fossil records.

GEO 37 PHYSICAL GEOGRAPHY 3 crs. 3 hrs.

The course content will feature the climatic and geological systems of the Earth, and the impact of these processes upon mankind's economic and demographic development. Contemporary ecological problems will receive a comprehensive description and analysis. Outside readings will be assigned to broaden the students' acquaintance with geographical literature.

+ Basic Course
PHYSICS

PHY 11 GENERAL PHYSICS I 5 crs. 6 hrs.
This is the first term of a non-calculus two-semester college lecture and laboratory course in classical and modern physics. It is recommended for students in liberal arts, pre-medical, pre-dental, pre-pharmacy, pre-optometry and allied health. Topics include study of mechanics, heat, hydrostatics and hydrodynamics, harmonic motion and waves. In the accompanying laboratory, physical principles are demonstrated and students are given “hands on” laboratory experience.

PHY 12 GENERAL PHYSICS II 5 crs. 6 hrs.
This is the second term of General Physics. Topics covered include sound, electricity, magnetism, atomic and nuclear physics and optics. Laboratory sessions are included.

PHY 13 ADVANCED GENERAL PHYSICS I 5 crs. 6 hrs.
This is the first term of a calculus two-semester college lecture and laboratory course in classical and modern physics. It is recommended for students in science and engineering. Pre-medical and allied health students who desire a more comprehensive treatment than what is given in PHY 11 should consider taking this course. During laboratory sessions physical principles are demonstrated and students are given “hands on” laboratory experience.

PHY 14 ADVANCED GENERAL PHYSICS II 5 crs. 6 hrs.
This is the second term of Advanced General Physics. Topics include sound, electricity, magnetism, atomic and nuclear physics and optics. Laboratory sessions are included.

PHY 21 MODERN PHYSICS 4 crs. 5 hrs.
This up-to-date course in atomic and nuclear physics is recommended for science, engineering and certain allied health students. It includes kinetic theory, the failure of classical physics, wave mechanics, special relativity, radioactivity, nuclear reactions, fission, fusion and nuclear energy and its economic and ecological impact. A laboratory gives the student the opportunity to do experiments in some of the above areas.

PHY 29 BASIC ELECTRONICS 4 crs. 5 hrs.
Lecture and laboratory work in the fundamentals of AC and DC circuits, vacuum tubes, transistors, circuit design and electronic instrumentation are included in this course.

+ Basic Course
PHY 30 PHYSICS FOR EVERYDAY LIVING  
3 hrs.  3 hrs.
This course is especially designed for liberal arts and career students desiring an up-to-date narrative of developments in physics. Such non-traditional topics as space travel, atomic energy and the atomic bomb, ecological problems and the computer will be covered.

PHY 31 ELECTRONICS FOR COMMUNICATION I  
3 hrs.  4 hrs.
This is the first course of a three term sequence. Topics include atomic structure, simple DC circuits, Ohm’s Law, resistors, magnetism, meters, motors, generators, broadcast equipment, antennas and Rules and Regulations for the F.C.C. Radio Telephone License Exam. The laboratory gives practical experience in these topics.
Fulfills Group V requirements for Radio Broadcast Majors only.
Prerequisite: Elementary Algebra, MAT 05 or MAT R2

PHY 32 ELECTRONICS FOR COMMUNICATION II  
3 hrs.  4 hrs.
This is the second course of a three term sequence. Topics include: DC circuits, Kirchhoff’s equations, AC circuits, resonance, tubes, transistors, power sources, amplifiers, oscillators, AM and FM antennas, test and measuring equipment, and Rules and Regulations for the F.C.C. Second Class Radio Telephone License Exam. The laboratory gives practical experience in these topics.
Fulfills Group V requirements for Radio Broadcast Majors only.
Prerequisite: PHY 31 or permission of the Department

PHY 33 ELECTRONICS FOR COMMUNICATION III  
3 hrs.  4 hrs.
This is the third course of a three term sequence. Topics include: advanced DC and AC circuits, resonance, broadcast station components, audio circuits, AM, FM and TV systems, antenna and coaxial lines, transmitter services, digital and IC components and Rules and Regulations for the F.C.C. First Class Radio Telephone License Exam. The laboratory gives practical experience in these topics.
Fulfills Group V requirements for Radio Broadcast Majors only.
Prerequisite: PHY 32 or permission of the Department

PHY 35 INTRODUCTION TO ASTRONOMY  
3 hrs.  3 hrs.
An introduction to the concepts and methods of astronomical science. In systematic fashion, the course covers the early theories of the universe, astronomical instruments, the solar system and its members, the stars, galaxies, recently discovered objects, and concludes with a study of modern cosmological ideas. Students who wish to add the laboratory part of this course should take ASTRONOMY LABORATORY, SCI 41, 1 cr. 2 hrs. This course, when taken at the same time, would be the equivalent of a 4 credit lab course.
Prerequisite: Elementary Algebra or MAT 05
+ SCI 21 PHYSICAL SCIENCE I

This first part of a college-level two-semester sequence in Physical Science covers astronomy, mechanics, electricity and magnetism. It may be taken with SCI 38, a two-hour laboratory course for a total of 3 credits.

SCI 22 PHYSICAL SCIENCE II

This second semester of the college-level Physical Science course covers light, atomic structure, chemistry, meteorology and geology. It may be taken with SCI 39, a two-hour laboratory course for a total of 3 credits.

Prerequisite: SCI 21 or permission of the Department

+ SCI 25 APPLIED PHYSICAL SCIENCES FOR ALLIED HEALTH CAREERS

This lecture and laboratory course is designed to survey selected topics in chemistry and physics that have a direct bearing on the health services. Topics include: mechanics, electricity, optics, atomic energy, radioactivity, atomic structure, chemical bonding, chemical equations, behavior of gases, respiration and oxygen therapy, properties of liquids and solutions including hydrostatics and hydrodynamics, acids and bases, and an introduction to organic and biochemistry.

Prerequisite: MAT 05 or equivalent

+ SCI 31 HISTORY AND PHILOSOPHY OF SCIENCE I

A modern course in science emphasizing the historical, philosophical and political viewpoints. It begins with the work of the ancients in astronomy, then the revolution in science during the Renaissance is discussed with emphasis on the works of Copernicus, Galileo and Newton. The course continues with a discussion of the rise of modern physics and chemistry, including nuclear energy and space travel.

+ SCI 32 HISTORY AND PHILOSOPHY OF SCIENCE II

For complete course description refer to Department of Biological Sciences (page 125).

+ SCI 34 INTRODUCTION TO MODERN CHEMISTRY

A one-semester, non-mathematical survey course focusing on the role of chemistry in society. Chemical principles are woven into the study of current topics such as drugs, plastics, energy production and air pollution. Laboratory work illustrates these principles. Recommended for Liberal Arts and Career students.

+ SCI 35 INTRODUCTION TO MODERN PHYSICS

A one-semester lecture and laboratory college-level survey course in classical and modern physics. Areas covered encompass such topics as mechanics, heat, wave motion, electricity, optics, atomic and nuclear physics. Recommended for Liberal Arts and Career students.
**SCI 21 PHYSICAL SCIENCE I**

This first part of a college-level two-semester sequence in Physical Science covers astronomy, mechanics, electricity and magnetism. It may be taken with SCI 38, a two-hour laboratory course for a total of 3 credits.

**SCI 22 PHYSICAL SCIENCE II**

This second semester of the college-level Physical Science course covers light, atomic structure, chemistry, meteorology and geology. It may be taken with SCI 39, a two-hour laboratory course for a total of 3 credits.

**Prerequisite: SCI 21 or permission of the Department**

**SCI 25 APPLIED PHYSICAL SCIENCES FOR ALLIED HEALTH CAREERS**

This lecture and laboratory course is designed to survey selected topics in chemistry and physics that have a direct bearing on the health services. Topics include: mechanics, electricity, optics, atomic energy, radioactivity, atomic structure, chemical bonding, chemical equations, behavior of gases, respiration and oxygen therapy, properties of liquids and solutions including hydrostatics and hydrodynamics, acids and bases, and an introduction to organic and biochemistry.

**Prerequisite: MAT 05 or equivalent**

**SCI 31 HISTORY AND PHILOSOPHY OF SCIENCE I**

A modern course in science emphasizing the historical, philosophical and political viewpoints. It begins with the work of the ancients in astronomy, then the revolution in science during the Renaissance is discussed with emphasis on the works of Copernicus, Galileo and Newton. The course continues with a discussion of the rise of modern physics and chemistry, including nuclear energy and space travel.

**SCI 32 HISTORY AND PHILOSOPHY OF SCIENCE II**

**For complete course description refer to Department of Biological Sciences (page 125).**

**SCI 34 INTRODUCTION TO MODERN CHEMISTRY**

A one-semester, non-mathematical survey course focusing on the role of chemistry in society. Chemical principles are woven into the study of current topics such as drugs, plastics, energy production and air pollution. Laboratory work illustrates these principles. Recommended for Liberal Arts and Career students.

**SCI 35 INTRODUCTION TO MODERN PHYSICS**

A one-semester lecture and laboratory college-level survey course in classical and modern physics. Areas covered encompass such topics as mechanics, heat, wave motion, electricity, optics, atomic and nuclear physics. Recommended for Liberal Arts and Career students.
+SCI 36 INTRODUCTION TO EARTH SCIENCE

4 hrs. 5 hrs.

During this course, emphasis is placed on the earth's environment, meteorology, geology, astronomy, and oceanography. Field trips and a laboratory are included.
Recommended for Liberal Arts and Career students.

+SCI 37 CHEMISTRY AND THE ENVIRONMENT

4 hrs. 5 hrs.

Through lectures and outside reading, students will learn many aspects of air and water pollution, food additives, and lead poisoning of children. The emphasis is on chemical understanding, and basic principles are presented for students to achieve this. Attention is also given to medical, social, and governmental aspects. Laboratory work is coordinated with lectures.
Recommended for Liberal Arts and Career students.

+SCI 38-39 PHYSICAL SCIENCE LABORATORY

1 cr. 2 hrs. (each semester)

This course was designed to promote understanding of activities of physicists, chemists, and earth scientists, for students desiring a basic laboratory course in science. Important principles of physical sciences will be illustrated.

+SCI 41 ASTRONOMY LABORATORY

1 cr. 2 hrs.

During this laboratory course in astronomical instruments, telescopes, transit spectroscopes, and cameras are used to solve selected problems. Evening observations will be made of the sky using the naked eye, binoculars, and telescopes.

SCI 51 PEOPLE AND THE ENVIRONMENT II

2 hrs. 2 hrs.

From a chemical point of view, this course assesses what is known of the environment and of how to conserve it. Actions designed to expand that knowledge and its use are examined. A very important contemporary problem of energy consumption and related pollution problems, waste disposal, and recycling are also considered.
For course description of SCI 50 see Department of Biological Sciences (page 125).

+SCI 70 THE SCIENCE OF NUTRITION

3 crs. 3 hrs.

With an increase in the processing of food and the increased addition of chemical substances to food, it is important for students to understand the basic ideas of modern nutrition for their own wellbeing. This interdisciplinary course, taught jointly by the Biological Sciences, Physical Sciences, and the Health, Physical Education and Recreation Departments, attempts to teach these ideas. Such concepts as biochemical individuality as related to nutrition for optimum health are integrated with surveys of carbohydrate, protein and fat metabolism. The role of vitamins and minerals in metabolic processes and their still-controversial role in orthomolecular nutrition is examined. Other topics, such as food selection, diet during pregnancy and infancy, special diets during illness, and the safety of the food supply, are discussed. Students are asked to analyze their own diet.

+Basic Course
SECRETARIAL SCIENCE

SEC 11 ELEMENTARY TYPEWRITING
2 crs. 4 hrs.
Basic skills necessary for the operation and care of the typewriter are developed. These skills are applied to the typing of simple personal and business forms. (With approval, students who completed one year of high school typing, or the equivalent, may enroll in SEC 12.)

SEC 12 INTERMEDIATE TYPEWRITING
2 crs. 4 hrs.
The development of typing speed and control is stressed. Beginning production skill in typing business forms, including letters, tabulated materials, business reports, and manuscripts, with emphasis on business standards, is developed. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)
Prerequisite: SEC 11 or equivalent

SEC 12X INTERMEDIATE TYPING: INTENSIVE
4 crs. 4 hrs.
This intensive program seeks to develop the attainment levels of SEC 11, and SEC 12, for students with educational and/or experiential background of 30 wpm for five minutes with a 3 percent error limitation. Each student will be evaluated by the instructor, and individual prescriptions will be determined to eliminate the gaps in knowledge and understandings and/or inadequacies in skills. The individual prescriptions will include completion of special skills projects in secretarial laboratories, development of malleability standards, and tutorial instruction.
Prerequisite: Permission of the Department

SEC 13 ELEMENTARY SHORTHAND (PITMAN)
3 crs. 4 hrs.
Pitman shorthand theory is presented in this course. Practice in reading and writing contextual materials and pre-transcription training are included. Open to students who studied Pitman in high school for less than one year. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)

SEC 14 ELEMENTARY CENTURY 21 SHORTHAND
3 crs. 4 hrs.
Century 21 Shorthand theory is presented in this course. Practice in reading and writing contextual materials and pre-transcription training are included. Open to students who studied Century 21 in high school for less than one year. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)

SEC 15 ELEMENTARY SHORTHAND (GREGG)
3 crs. 4 hrs.
Gregg shorthand theory is presented in this course. Practice in reading and writing contextual materials and pre-transcription training are included. Open to students who studied Gregg in high school for less than one year. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)

SEC 16 INTERMEDIATE SHORTHAND (PITMAN)
3 crs. 4 hrs.
In this course stress is on the continued development of Pitman shorthand language skills and continued pre-transcription training. The emphasis is on taking dictation at sustained speeds and reading shorthand fluently. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)
Prerequisite: SEC 13 or equivalent

+ Basic Course
SEC 16X INTERMEDIATE PITMAN SHORTHAND: INTENSIVE

This intensive program will develop the skill attainment levels of SEC 13, and SEC 16. This program is designed for students with educational and/or experiential background that includes the complete theory of Pitman Shorthand and the ability to take dictation at 60 wpm for two minutes with 95 percent accuracy. Each student will be evaluated by the instructor to measure inadequate understanding of the principles of Pitman Shorthand, and to ascertain the level of skill in dictation and transcription. Individual prescriptions will be given to the student including use of tapes for the development of shorthand principles, and of the ability to take dictation, the completion of transcription projects in the secretarial laboratory, and tutorial instruction.

Prerequisite: Permission of the Department

SEC 17 INTERMEDIATE CENTURY 21 SHORTHAND

In this course stress is on the continued development of Century 21 stenographic language skills and continued pre-transcription training. The emphasis is on taking dictation at sustained speeds and reading shorthand fluently. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)

Prerequisite: SEC 14 or equivalent
Corequisite: SEC 12

SEC 17X INTERMEDIATE CENTURY 21 SHORTHAND: INTENSIVE

This intensive program will develop the skill attainment levels of SEC 14, and SEC 17. This program is designed for students with educational and/or experiential background that includes the complete theory of Century 21 Shorthand and ability to take dictation at 60 wpm for two minutes with 95 percent accuracy. Each student will be evaluated by the instructor to measure inadequate understandings of the principles of Century 21 Shorthand and to ascertain the level of skill in dictation and transcription. Individual prescriptions will be given to the student that will include the use of tapes for the development of shorthand principles and of the ability to take dictation, the completion of transcription projects in the secretarial laboratory, and tutorial instruction.

Prerequisite: Permission of the Department

SEC 18 INTERMEDIATE SHORTHAND (GREGG)

The continued development of Gregg shorthand language skills and continued pre-transcription training are stressed. Emphasis is on taking dictation at sustained speeds and reading shorthand fluently. (With approval, students who satisfactorily completed the equivalent of this course may be exempted.)

Prerequisite: SEC 15 or equivalent

SEC 18X INTERMEDIATE GREGG SHORTHAND: INTENSIVE

This intensive program will develop the skill attainment levels of SEC 15, and SEC 18. This program is designed for students with educational and/or experiential background that includes the complete theory of Gregg shorthand and the ability to take dictation at 60 wpm for two minutes with 95 percent accuracy. Each student will be evaluated by the instructor to measure inadequate understandings of the principles of Gregg shorthand and to ascertain the level of skill in dictation and transcription. Individual prescriptions will be given to the student that will include the use of tapes for the development of shorthand principles and of the ability to take dictation, the completion of transcription projects in the typewriting laboratory, and tutorial instruction.

Prerequisite: Permission of the Department

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SEC SCI 19 BASIC DICTATION (GREGG, PITMAN, CENTURY 21)  

2 hrs. 3 hrs.

In this course stress is on giving the students dictation of short business letters. All dictation materials are previewed. Shorthand theory is reviewed through homework and laboratory assignments.  

Prerequisites: SEC 13, 14, 15, or permission of the Department

+ SEC 21 BASIC WORD PROCESSING  

3 hrs. 4 hrs.

A study of modern word processing/administrative support concepts in the organization, operation, and control of office functions. Special emphasis is given to the secretary's dual role as an administrative assistant or as a correspondence secretary. The typing of letters and memorandums on electronic word processing equipment will be stressed.  

Prerequisite: SEC 11 or equivalent  
Corequisites: Sec 37, 12

SEC 22 ADVANCED WORD PROCESSING  

3 hrs. 4 hrs.

A study of the applied use of word processing procedures and equipment in a simulated word processing environment. The total work flow of office communications will be covered from input through output. The typing of tables and reports on electronic processing equipment will be stressed.  

Prerequisite: SEC 21  
Corequisites: SEC 23, 33

+ SEC 23 MACHINE TRANSCRIPTION  

3 hrs. 4 hrs.

This course covers the transfer of recorded dictation by a typist/transcriber at the typewriter or word processor into a usable or mailable format. The recorded dictation will consist of memoranda, letters, manuscripts, business reports, and other communications. Students will also use dictating equipment in their composition of letters, memoranda, and business reports. Associated language-arts skills including punctuation, spelling, capitalization, word usage, proofreading, and editing will be stressed.  

Prerequisites: SEC 12, 37  
Corequisite: SEC 21

SEC 24 OFFICE SYSTEMS AND PROCEDURES  

3 hrs. 3 hrs.

This course covers the systems and procedures of the electronic office for the executive secretary and word processor. It will include planning and organizing office operations, leadership and human relations in the office, and controlling office operations. Theory, concepts, and practices relating to office systems and procedures, employee performance, output and job satisfaction will be stressed.  

Prerequisite: SEC 21  
Corequisite: SEC 92e

SEC 31 ADVANCED SHORTHAND AND TRANSCRIPTION I  

3 hrs. 4 hrs.

Students' shorthand skills are intensified with development of the ability to take dictation at rates of 80 to 120 words per minute for sustained periods. Transcription techniques to meet office standards in the production of mailable transcripts are developed.  

Prerequisites: SEC 12 and 16 or 18 or equivalent  
Corequisites: SEC 33, 37

+ Basic Course
SEC 31X ADVANCED SHORTHAND AND TRANSCRIPTION II

4 crs. 4 hrs.

This intensive program will develop dictation speeds of 60 to 120 wpm. will review the principles of stenography, re-enforce patterns of writing at high speeds, introduce and develop skill in transcription. This program enables students to meet the performance objectives for SEC 16 or 18 and SEC 31. Each student will be evaluated by the instructor. Gaps in learning and inadequate understandings that do not reflect the standards of the executive secretary will be corrected through individual prescriptions that include the use of the tapes in the Secretarial Resource Center and Media Center, transcription projects in the secretarial laboratory, and tutorial services.

Prerequisite: Permission of the Department

SEC 32 ADVANCED SHORTHAND AND TRANSCRIPTION III

4 crs. 6 hrs.

Speed dictation is increased to 100 to 140 wpm. Transcription skills to meet office production standards of the executive secretary are attained.

Prerequisites: SEC 31, 33 and 37

SEC 33 PRODUCTION TYPEWRITING

2 crs. 4 hrs

This course involves student mastery of typewriting skills and high-speed techniques. Course work includes integrated office typewriting projects involving business communications, directives, business reports, statistical typewriting with emphasis on the responsibilities of the executive secretary.

For Secretarial Science majors only or permission of the Department

Prerequisite: SEC 12 or equivalent

SEC 33X PRODUCTION TYPEWRITING: INTENSIVE

4 crs. 4 hrs.

An intensive program to develop the skill attainment and the production levels of SEC 12, and SEC 33, for students with educational and/or experiential background of 40 wpm for five minutes with a 2 percent error limitation. The Instructor evaluates each student and provides individual prescriptions that include specialized projects, use of the secretarial laboratory for skill building, and use of tutorial services.

Prerequisite: Permission of the Department

SEC 34 SECRETARIAL PRACTICE

3 crs. 4 hrs.

A broadly-based, comprehensive course which simulates on-the-job secretarial duties concerning correspondence responsibilities, use of transmittal service, records management, receptionist and telephone techniques, travel procedures, financial and legal duties, procedures for preparing business reports and the use of word processing equipment. Attention to fostering good human relations in the office and to developing attitudes and traits of the successful executive secretary are stressed.

Open only to Secretarial Science majors.

Prerequisites: SEC 31, 33, 37

SEC 35 ADVANCED PRODUCTION TYPEWRITING—EXPERT TECHNIQUES AND CORRESPONDENCE PRODUCTION

1 cr. 2 hrs.

The course is designed to enable students to achieve expert levels in typewriting and high levels of proficiency in the production of business letters, interoffice memoranda, directives, and reports. Business standards in simulated office situations are maintained.

Prerequisite: SEC 33
+SEC 37 BUSINESS COMMUNICATIONS 3 crs. 3 hrs.

Detailed attention is given to the principles of writing effective business communications, including letters, reports, memoranda, directives. Emphasis is on organization, language, human relations and the application of business psychology in writing.
Open only to Secretarial Science majors.

SEC 51 ELEMENTARY LEGAL SHORTHAND AND PROCEDURES 3 crs. 4 hrs.
The course focuses on the development of a comprehensive legal shorthand vocabulary through dictation and transcription of legal materials. Skill is developed in taking dictation of 80 to 120 wpm and in transcribing nonlitigation forms and communications including letters, contracts, proxies, wills, bonds, release, and legal documents involving the settlement of estates, land, and real estate sales, leases, mortgages, partnerships and incorporation procedures.
Open only to Legal Secretarial Science majors.
Prerequisites: SEC 12 and 16 or 18 or equivalent
Corequisites: SEC 31, 33 and 37

SEC 52 ADVANCED LEGAL SHORTHAND AND TRANSCRIPTION 4 crs. 6 hrs.
Course includes rapid dictation of litigation materials of 100 to 140 wpm, continued legal vocabulary development and accurate transcription according to legal office standards. Structure of the courts and their relationship to one another, typical civil and criminal proceedings from initiation to enforcement of judgement, various documents used in litigation and responsibilities of the legal secretary are included.
Prerequisites: SEC 33, 37, 51

+SEC 53-54 THE SCHOOL SECRETARY 2 crs. 2 hrs. (each semester)

In this two-semester course, consideration is given to the educational principles relating to the school secretary's work, with emphasis on the organization of school systems, particularly that of New York City.
Open only to School Secretarial Science majors.

+SEC 55 SCHOOL RECORDS AND ACCOUNTS 2 crs. 2 hrs.

Students are introduced to the activities and responsibilities of the school secretary, including the preparation of a variety of reports usually completed in the school office; records of school personnel, textbooks and supplies, and school accounts.
Open only to School Secretarial Science majors.

SEC 67 BEGINNING MEDICAL SECRETARY PRACTICE 2 crs. 3 hrs.
The course is an introduction to the semi-technical medical activity responsibilities of a medical secretary. It includes analysis of medical care plans and their respective forms, the development of skill in the use of office machines, and medical filing techniques and procedures.
Open only to Medical Secretarial Science majors.
Prerequisites: SEC 12 and 16 or 18
Corequisites: SEC 31, 33 and 69

+ Basic Course
SEC 68 ADVANCED MEDICAL SECRETARY PRACTICE

The course covers the duties and responsibilities of a medical secretary. Included are: telephone techniques, meeting patients, preparation of case histories, medical records management, ethics, business aspects of a medical practice, financial records, insurance forms, organization and administration of a medical office. The development of skills in the use of calculating machines, dictating and transcribing machines, and word processing equipment are also stressed.

Open only to Medical Secretarial Science majors.

Prerequisites: SEC 31, 33, 67, 69
Corequisite: SEC 70

SEC 69 ELEMENTARY MEDICAL DICTATION AND TERMINOLOGY

This course involves a comprehensive study of medical terminology, including shorthand outlines, spelling, pronunciation and definitions in the areas of: cardiology, thoracic medicine, dermatology, eye, ear, nose, throat, urology, endocrinology, mental health, gynecology, obstetrics, and pediatrics. Medical dictation at rates of 100 to 120 words per minute and transcription ability are developed.

Open only to Medical Secretarial Science majors.

Prerequisites: SEC 12 and 16 or 18
Corequisites: SEC 31, 33, 37, 67

SEC 70 ADVANCED MEDICAL DICTATION AND TRANSCRIPTION

Stress in the course is on the continued development of medical shorthand vocabulary in the areas of: gastroenterology, chemotherapy, orthopedics, neurology, and medical abbreviations. Included are high-speed drills in dictation and transcription, development of skill in taking dictation of 120 to 140 wpm, accurate transcription of case histories, letters, hospital records, medical journal articles, and medical reports.

Open only to Medical Secretarial Science majors.

Prerequisites: SEC 31, 33, 37, 67, 69
Corequisite: SEC 68

SEC 81 INDEPENDENT STUDY

Independent study of Secretarial Science is developed individually between student and faculty member and must be approved by the Department.

SEC 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
SEC 92a FIELD EXPERIENCE—EXECUTIVE SECRETARY

Eight hours per week of supervised work experience in business offices in the community, and one hour a week of classroom discussion of the on-the-job experience are course requirements.

Prerequisites: SEC 31, 33 and 37
Corequisites: SEC 32 and 34

SEC 92b FIELD EXPERIENCE—LEGAL SECRETARY

Eight hours per week of supervised work experience in law firms in the community, and one hour a week of classroom discussion of the on-the-job experience are course requirements.

Prerequisites: SEC 31, 33, 37 and 51
Corequisites: SEC 32 and 52

SEC 92c FIELD EXPERIENCE—SCHOOL SECRETARY

Eight hours per week of supervised work experience in schools in the community, and one hour a week of classroom discussion of the on-the-job experience are course requirements.

Prerequisites: SEC 31, 33, 37 and 53
Corequisites: SEC 32, 34, 54, 55

SEC 92d FIELD EXPERIENCE—MEDICAL SECRETARY

Eight hours per week of supervised work experience in medical environments in the community, and one hour a week of classroom discussion of the on-the-job experience are course requirements.

Prerequisites: SEC 31, 33, 37, 67, 69
Corequisites: SEC 68 and 70

SEC 92e FIELD EXPERIENCE—WORD PROCESSING

Actual experience in using word processing machines to complete projects in business offices is stressed in this course. Each student works a minimum of 100 hours as a word processing operator in business. Students attend lectures and seminars at the College to develop insight into the personnel and management problems of the electronic office.

Pre or Corequisite: SEC 22 or permission of the Department

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SECRETARIAL SCIENCE
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SOCIAL SCIENCES DEPARTMENT

Chairman: Dr. Bernard Klein
Room—D-309A
Ext.—5417
AMERICAN HISTORY

+HIS 11 AMERICAN CIVILIZATION I
A history of the American people from colonial times to the Civil War. Topics discussed include: the birth and development of American society, the American Revolution, the rise of the common man, the conquest of the frontier, slavery and the Old South.

+HIS 12 AMERICAN CIVILIZATION II
A history of the American people from the Civil War to the present. Topics discussed include: reunifying the country after the Civil War, the role of the Black in American society, the growth of American business, immigration, the rise of the United States as a world power, and American Society in the 20th century.

HIS 13 AMERICAN COLONIAL HISTORY, 1492 to 1763
The foundations of American civilization from its European origins to the French and Indian Wars are traced in this course. Topics such as the expansion of Europe, the Indian’s struggle for survival, the origins of American Slavery and the roots of prejudice, the Puritan impact on American culture, and the structure and basis of American politics are covered.

HIS 15 ERA OF THE CIVIL WAR, 1828 to 1877
This course covers America from the age of Jackson to Reconstruction. Included are such topics as the growth of a national society, reform movements, the problem of slavery and race, sectionalism and nationalism, the Civil War and the triumph of American capitalism.

+HIS 20 THE IMMIGRANT IN AMERICAN SOCIETY
The changing pattern of immigration from the 17th century to the present is studied. The motives and ambitions of the immigrant, his background, his role in American society, and his contributions to American life are discussed.

+HIS 21 POPULAR CULTURE IN AMERICA
The course traces the development in America of sports, fads, and folklore. The course will also include other significant aspects of American Society from the colonial era to the present.

HIS 23 THE AMERICAN FRONTIER
This course traces the movement of the American frontier from colonial times to the 20th century. Discussion includes the impact of the frontier on the settler, the confrontation between the Indian and the settler, and the settler’s efforts to tame the American wilderness. Also covered are topics such as the cotton and cattle kingdoms, the problem of law and order in the West, and the continuing legacy of the frontier in American society and culture.

+Basic Course
+ HIS 41 THE INDIAN IN AMERICAN HISTORY

The history of the American Indian from the time of Columbus to the present. Emphasis will be on Indian culture and its place in Indian history, Indian-white conflict, and an examination of Indian problems in contemporary American society.

+ HIS 50 THE BLACK IN AMERICAN HISTORY

A study of Black Americans within the context of American civilization. Their role in the growth of the nation is examined with the aim of understanding their contributions, their problems and the attitudes of all Americans, black and white, on the issues of race.

+ HIS 55 HISTORY OF ITALIAN AMERICANS

This course examines the circumstances of the immigration of Italians to the United States from the colonial period to the present. The contributions of Italians to American culture, their treatment in American literature, and the changes which they experienced in their own lives as a result of living in the United States will be considered.

HIS 58 AMERICAN REVOLUTION AND THE EARLY NATIONAL PERIOD 1763 to 1828

This course describes the unique nature of American colonial society, and seeks to explore the forces that led to the American Revolution. It also describes the process of nation building, the problems facing an underdeveloped country, the birth of the two party system, and the struggle for national sovereignty.

+ HIS 59 MODERN AMERICA, 1920 to PRESENT

The development of the United States from 1920 to the present. The course considers the Jazz Age, the Great Depression, the New Deal, World War II, the Cold War, the Civil Rights Revolution, and the protest movements of the 1960's.

+ HIS 60 HISTORY OF AMERICAN THOUGHT

The course traces the development of American thought from the colonial period to the present. The ideas and values which influenced and directed American society are examined.

+ HIS 62 THE HISTORY OF NEW YORK CITY

This course traces the history of the City of New York from its founding to the present day. The course will cover New York City's development by touching on such aspects of its history as: its origin as a Dutch trading post; its position in colonial culture and society; its role in the American Revolution and the founding of the American Republic; its growth as a great commercial, transportation, manufacturing, and banking center; its citizens' attitude toward slavery and race relations; its importance as the center of immigration; its growth and expansion into neighboring communities; and its problems and difficulties as a modern megalopolis in the 20th century.
HIS 68 WOMEN IN AMERICAN HISTORY

An examination of the status of women in the United States from colonial times to the present, the European precedents for the treatment of American women, the attempts to alter women's opportunities and rights, and the nature of reform movements in America.

HIS 69 AMERICAN JEWISH HISTORY

This course is a study of Jews within the context of American History, with emphasis on the settlement of America as part of the Diasporic experience. The historical causes for the unique aspects of American Judaism, economic and geographical mobility, the Jewish labor movement, the radical intellectuals of the '30's, as well as contemporary issues are considered.

+ Basic Course
WORLD HISTORY

+ HIS 31 EUROPE FROM NAPOLEON TO HITLER, 1789 to 1945 3 crs. 3 hrs.
A social, cultural, political, and economic approach to the development of European civilization from the French Revolution to the 20th century. Emphasis in this course is on industrialism, nationalism, imperialism, world wars, and totalitarianism.

+ HIS 32 MODERN CHINA 3 crs. 3 hrs.
The reshaping of China and its revolutionary role in the modern world will be examined during this course.

+ HIS 33 AFRICA: PAST AND PRESENT 3 crs. 3 hrs.
The historical development of Africa is studied in this course. Emphasis is on the cultural interchange, colonialism and the nationalist revolts, new governments and the problem of modernization, conflicts of interest of the great powers, and 20th-century nationalistic rivalries.

HIS 34 MILITARY HISTORY 3 crs. 3 hrs.
A study of modern military history with emphasis on the strategic, tactical, and technological factors relating to warfare. Topics include classic warfare, the age of limited war, modern nationalism and total war, modern guerrilla and contemporary warfare.

HIS 35 UTOPIAN DREAMERS AND THE WESTERN WORLD 3 crs. 3 hrs.
An examination of Utopian thinkers and thought as a significant expression of Western culture. The major works in the Utopian tradition and the historical backgrounds in which they were produced are considered.

+ HIS 36 EUROPE IN THE TWENTIETH CENTURY 3 crs. 3 hrs.
The study of the transformation of European society in the 20th century. Emphasis will be placed on political, military, economic and cultural factors as well as social and technological changes which gave the 20th century its unique character.

+ HIS 37 THE MIDDLE EAST FROM WORLD WAR I TO THE PRESENT 3 crs. 3 hrs.
An analysis of the major political, social, religious, economic, and cultural developments in the Near East. Emphasis is on the attempts of Islamic society to adjust to the Western way of life, the rise of nationalism, recent developments such as the emergence of the State of Israel and the role of oil in world diplomacy.

HIS 38 REVOLUTION AND POLITICAL PROTEST IN AFRICA, 1860 to PRESENT 3 crs. 3 hrs.
An examination of the historical causes for political protest and revolution in sub-Saharan Africa as well as the prospects of non-violent political change. The emphasis will be on the anti-colonial reactions, insurrections and the role of the military in shaping African society.

+ Basic Course
HIS 42 THE CARIBBEAN, 1492 TO THE PRESENT

This course covers the development of the Caribbean Islands from 1492 to the present. Topics studied include pre-Colombian cultures, European colonization and rivalries, slavery, and the development of the modern Caribbean culture.

HIS 43 THE HISTORY OF THE PUERTO RICAN IMMIGRANT

This course will examine the history of Puerto Rico from pre-Colombian times to the modern era. The particular focus will be on the nature of the Puerto Rican immigration to the mainland, the reasons behind it, the development of Puerto Rican Communities in North American urban centers, and the migration back to Puerto Rico.

+ HIS 44 THE NAZI HOLOCAUST

An examination of the rise of Nazism and its legislative, political, and destructive machinery; the internal life of the Jew in the Ghettos and Concentration Camps; the Jewish Councils and Resistance movements; the attitude of the "Free World," the Allies, the Church; negotiations for rescue; the scope of the Final Solution, and the literature of the holocaust.

+ HIS 51 THE ANCIENT WORLD

This course traces the origins of civilization and the emergence of the great cultures of the Near East, including the religious, social, economic, and political ideas and institutions of Egypt, Mesopotamia, the Hebrews, Greece, and Rome, which shaped Western civilization.

+ HIS 52 WESTERN CIVILIZATION FROM THE MIDDLE AGES TO THE 18th CENTURY

This course considers the main themes of Western civilization from the Middle Ages to the 18th century. Topics covered include the nature of medieval society, the birth of modern capitalism, the expansion of Europe, the Renaissance, the religious revolution of the 16th century, the emergence of modern science, and the Age of Reason.

HIS 53 RUSSIAN HISTORY FROM 1860 TO THE PRESENT

This course deals with reform and revolution in Russia and the establishment of the Soviet regime. An analysis and evaluation of the U.S.S.R. under its several leaders is included.

HIS 56 WITCHCRAFT—AN HISTORICAL STUDY

The history of witchcraft from its beginning in the ancient Near East to the great witch-hunts of early modern Europe and America and its decline in the age of scepticism, the 17th and 18th centuries.

+ HIS 57 LATIN AMERICAN HISTORY

The development of Latin America from colonial times to the present. Emphasis is placed on such topics as the intermingling of cultures, ideas, and the formation of a Latin American civilization.

+ HIS 64 MODERN JEWISH HISTORY

A history of the Jewish people from the mid-17th century to the present. Topics covered are the Messianic and Hasidic movements, enlightenment, emancipation and assimilation, the rise of new religious forms, the great migrations, nationalism, antisemitism, the growth of Hebrew and Yiddish literature, the emergence of Zionism and the establishment of the State of Israel.

+ Basic Course
HIS 65 MODERN RADICAL MOVEMENTS IN WESTERN CIVILIZATION  3 crs. 3 hrs.
The course examines the ideological bases of industrialism, laissez-faire, doctrines of reform and transformation, as well as the co-related movements in the 19th and 20th centuries. It traces the emergence of post-democratic totalitarianism in Russia, Italy, and Germany, and contemporary expressions of Socialism, Marxism-Leninism, and revisionist views of liberalism and democracy.

HIS 67 JEWISH HISTORY FROM POST-BIBLICAL TIMES TO THE ENLIGHTENMENT  3 crs. 3 hrs.
The high points of Jewish development from the Babylonian exile to the mid-17th century. The role of the exile, Ezra and Nehemiah, the political, social and religious developments during the Second Commonwealth, the Talmud and its influence, the relationship with Christianity and Islam, and the communal institutions developed in the various parts of the Diaspora.

HIS 70 HISTORICAL GEOGRAPHY  3 crs. 3 hrs.
This course will familiarize students with geographic sources, their interpretation and evaluation. The development of student's geographical sense to gain greater insight and understanding in learning history, or for that matter any other liberal arts discipline. The course will include a survey of the history, methodology and the various theoretical approaches to geography. It will also emphasize and give practical training in the skills of map reading, interpretation and library organization and utilization.

HIS 81 INDEPENDENT STUDY  1-3 crs. 1-3 hrs.
Independent study of History is developed individually between student and faculty member and must be approved by the Department.

HIS 82  1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

+Basic Course
PHILOSOPHY

PHI 71 HISTORY OF PHILOSOPHY: THE CLASSICAL PHILOSOPHERS 3 crs. 3 hrs.
The development of philosophical thought and its influence on modern man with emphasis on classical Greece, India, and China. Attention will focus on the works of Plato, Aristotle, Confucious, Lao Tsu.

PHI 72 HISTORY OF PHILOSOPHY: THE MODERN PHILOSOPHERS 3 crs. 3 hrs.
A study of philosophical thought from the Renaissance to the present with emphasis on Cartesian thought, natural religion, skepticism, idealism and existentialism. Attention will be given to works of Descartes, Spinoza, Hume, Nietzsche, Kierkegaard.

PHI 73 LOGIC: THEORIES OF ARGUMENTATION 3 crs. 3 hrs.
An introduction to the basic theories of argumentation in their evolution from Plato and Aristotle to contemporary theories. Principles of logic, scientific method, and their application form the core of the course.

PHI 74 ETHICS: A STUDY OF ETHICAL PROBLEMS 3 crs. 3 hrs.
Ethical and moral theories from the Greek philosophers to the present. Problems which are constant in human history will be examined against the background of various classical and modern writers.

PHI 75 AESTHETICS: THEORIES OF THE BEAUTIFUL 3 crs. 3 hrs.
A study of the aesthetic experience in the philosophies of Plato, Aristotle, Schopenhauer, Nietzsche and Kierkegaard. An examination of the criteria of the theories of beauty with reference to art, literature and music.

PHI 81 INDEPENDENT STUDY 1-3 crs. 1-3 hrs.
Independent study of Philosophy is developed individually between student and faculty member and must be approved by the Department.

PHI 82 1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
POLITICAL SCIENCE

+ POL 50 CLASH OF POLITICAL IDEAS: INTRODUCTION TO POLITICAL THEORY
3 hrs. 3 crs.
An examination of selected major political philosophers from Plato to Machiavelli, from Locke and Rousseau to Hegel and Marx. What are the bases for political leadership, political obligation, majority rule and minority rights?

+ POL 51 AMERICAN GOVERNMENT AND POLITICS
3 hrs. 3 crs.
An introduction to the structure of the national government and the way it operates. Topics include the discussion of our democratic system, the three branches of government (executive, legislative and judicial), political parties, pressure groups, and current legislation.

+ POL 52 COMPARATIVE GOVERNMENT
3 hrs. 3 crs.
An analysis of the major types of political systems in selected foreign countries. The course includes study of the role of ideology, economics, elite groups, political institutions, the comparison of Western and non-Western systems, with emphasis on Britain, France, Germany, Italy, the Soviet Union and selected African, Asian, and Latin American countries.

+ POL 53 STATE AND LOCAL GOVERNMENT AND POLITICS
3 hrs. 3 crs.
The role of state and local governments in the American political system is the emphasis of this course. Special attention is given to New York State, New York City and to representative urban problems. Governmental structure is presented as the permanent yet changing framework within which urban-centered political action takes place.

+ POL 54 THE AMERICAN PRESIDENCY
3 hrs. 3 crs.
The major emphasis of the course is on the description and analysis of the Presidency as a post-World War II political institution. The course includes an historical introduction to the role of the President, the growth of the Presidency from 1789 to the present, and the factors currently affecting presidential elections, and presidential powers.

+ POL 55 PUBLIC OPINION
3 hrs. 3 crs.
Mass media's impact on the political process and the public's impact through the polling technique. Following an introduction to the area of public opinion and propaganda, the contribution of the mass media and polling are discussed. The course points up the linkages of public opinion, decision-making, political socialization and the problem of political analysis.

+ POL 56 URBAN COMMUNITY RELATIONS
3 hrs. 3 crs.
The course is concerned with looking at the inclusive political nature of our society; analyzing the concerns of the man on the street as he relates to government; and studying the ways in which the community initiates political action and responds to policies and services received from the government. Urban Community Politics grow from the ethnic, racial, religious, economic and geographic neighborhoods. Majority-minority groups increasingly function as political blocs within and outside of political party lines. The average citizen, seeking social and economic goals through political activity, is more concerned about public services than political structures.

+ Basic Course
POL 57 THE POLITICS OF ECONOMICS: AN INTRODUCTION TO POLITICAL ECONOMY
3 crs. 3 hrs.
This course introduces the subject of political economy within a social, political and historical context with the major focus being the problems of recession, inflation and resource insufficiency, "getting and spending" and their concomitant politico-economic costs and benefits are dealt with in discussions and readings which are institutionally oriented rather than theoretically contrived. Special attention is focused on existing and emerging public agencies and their constituencies, and on the nature of policy making and administration.

POL 58 WORK EXPERIENCE SEMINAR
3 crs. 2 hrs.
plus work experience
The work seminar will combine the experience of work in political/social/governmental activity with the study of the structural and functional role of selected offices in our political system. Emphasis on the theoretical understanding of the role of public officials/agencies will serve as the basis for class reports. Work experience must total a minimum of 90 hours.
Prerequisites: POL 51, 53, 56, 61 or permission of the Department

POL 59 INTERNATIONAL RELATIONS
3 crs. 3 hrs.
Analysis of the role of America in international relations is the major focus of this course. Emphasis is placed on sovereignty, state power, colonialism, imperialism, nationalism and ideologies. The course includes the role of international organizations and law, collective security and regionalism in the maintenance of international order.

POL 61 PRINCIPLES OF PUBLIC ADMINISTRATION AND PUBLIC AGENCIES
3 crs. 3 hrs.
Examination of the practice of American public administration with emphasis on the role of the bureaucracy in the American political system. The subject matter of the course includes a study of the political environment of public-sector administrative units, and the process of policy-making and policy implementation in the American political context. The policy-making function of administrators and their relationships with other factors in the political process will be scrutinized.
Prerequisite: POL 51 or 53, or permission of the Department

POL 63 INTRODUCTION TO CRIMINAL JUSTICE
3 crs. 3 hrs.
This course is an introduction to the criminal justice system in the United States. It includes a study of crime and the three elements which comprise the system, the police, the courts and corrections. In addition to analysis of each of these elements, attention is given to the civil liberties issues which involve the procedural due process rights of persons accused of crime.

POL 65 CIVIL RIGHTS AND LIBERTIES
3 crs. 3 hrs.
This course opens up the central American heritage issues of freedom and equality of opportunity. The development of freedom of speech, press, religion, and guarantees of assembly and petition are among the areas discussed. Civil rights, women's rights, and affirmative action are among the current issues considered.

POL 82
1-3 crs. 1-3 hrs.
This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.

+Basic Course
SPEECH and THEATRE DEPARTMENT

Chairman: Dr. Mortimer Becker
Room—E-309B
Ext.—5591
MASS COMMUNICATIONS

+MCM 30 MASS MEDIA

An analysis is made of mass media to discover their effect on the way information is perceived and influences behavior. Extensive use is made of films, tapes, recordings and video tapes to examine the message systems employed by individuals, groups, institutions and politics. Study focuses on radio, television, newspapers, magazines, film and advertising.

MCB 34 SALES AND ADVERTISING—RADIO AND TELEVISION

This course will prepare students to read and write advertising copy; to write and make radio and television commercials; to plan and market an advertising campaign; and to understand the ethics, propaganda, budget and copyright laws as they apply to advertising.

Prerequisite: MCB 35 or permission of the Department

+MCB 35 INTRODUCTION TO BROADCASTING

Comprehensive study of the historical development, social philosophy and technology of radio and television is made in this course which includes radio and television studio practice and technique. Videotaping and playback, field trips and guest lectures are included during the semester.

MCB 36 ANNOUNCING—RADIO AND TELEVISION

This course serves as an introduction to the techniques of broadcasting. The theory underlying the use of the equipment employed and the practical aspects of their proper use is discussed. Correct voice production procedures for announcing are studied. Methods of sight reading and oral reading are taught.

Prerequisite: SPE 29 or permission of the Department

MCB 37 BROADCAST JOURNALISM

An understanding of the role of radio and television in reporting and shaping the news is offered in this course. The difference between these media and the press is observed and discussed. Reporting, writing and editing newscasts is taught. Practical experience in working against a deadline is emphasized.

Prerequisite: MCB 35

MCB 38 BROADCAST MANAGEMENT

A course designed to acquaint students with the decision-making roles in contemporary broadcast operations; emphasizing traffic flow, governmental requirements, ethics, community needs, intermedia relationships, and responsive programming.

Prerequisite: MCB 35

+ Basic Course
+MBC 39 STUDIO OPERATIONS AND PRODUCTION TECHNIQUES 3 crs. 3 hrs.
This course provides students with familiarity and understanding of broadcasting equipment and the operational and technical skills needed to function in a radio and television studio.

+MBC 41 INTRODUCTION TO TELEVISION 3 crs. 4 hrs.
This classroom and studio course includes: an intense analysis of the experience of television viewing through a survey of its individual components and their logic. Television planning and coordination; set and lighting design; camera placement; lenses and angles; video control. Editing, directing, criticism, are included.
Prerequisite: MCB 39

+MCF 40 FILM: THE CREATIVE MEDIUM 3 crs. 3 hrs.
In this course students learn to recognize the film medium as a creative art. The historical, social, psychological and aesthetic elements of selected films are studied as illustrations of this creative force.
SPEECH

+SPE 11 LISTENING AND SPEAKING SKILLS  
3 crs. 3 hrs.
This course helps students develop and strengthen such language skills as listening, comprehension, fluent and coherent verbalization of ideas. Students also study acceptable American pronunciation.

+SPE 12 INTRAPERSONAL/INTERPERSONAL COMMUNICATION  
3 crs. 3 hrs.
An exploration is made of the communicator's development of self-concepts and the ability to understand and project a comfortable and confident self-image. Methods to improve and use this knowledge when interacting and communicating with other individuals and with groups are examined.

+SPE 14 COMMUNICATION SKILLS FOR PRESCHOOL AND ELEMENTARY TEACHERS  
3 crs. 3 hrs.
Through assignments that include research, brief written reports, oral presentation and class critiques, students develop skills in the classroom presentation of written materials such as short stories, poetry, and essays for children. They also develop skills in listening to student feedback as the children express their ideas concerning what has been read to them.

+SPE 15 SPEECH ARTS FOR PRE AND ELEMENTARY SCHOOL GRADES  
3 crs. 3 hrs.
Methods and materials for teaching the speech arts in nursery and elementary schools are studied in this course. Students learn to understand children and to work with them on such activities as dramatic play, pantomime, creative dramatics, puppetry, storytelling, reading aloud, choral speaking, group discussions and talks.

+SPE 16 SPEECH PROBLEMS OF CHILDREN  
3 crs. 3 hrs.
A study of the normal speech and language development in children is offered to students in this course. Future speech majors, classroom teachers, child care workers and parents are taught to diagnose and help remediate children's major speech and language disorders.

+SPE 20 PERSONAL IMPROVEMENT IN COMMUNICATION  
0 crs. 3 hrs.  
(3 equated credits)
Correction is provided in overcoming problems in the articulation of sounds, pronunciation of words, voice production, stress and rhythm in connected speech. Attention is given to overcoming regional accents. Standard American speech is emphasized. The underlying theory of proper voice production and speech formation is discussed.

+SPE 21 EFFECTIVE PUBLIC SPEAKING  
3 crs. 3 hrs.
The basic elements for clear and effective public speaking are presented. Practice and study in skills such as organizing and outlining speeches, developing ideas and using audio-visual materials for clarification and amplification of ideas is provided. The techniques of extempore and impromptu speaking are developed. Methods of delivery are examined and practiced. All the basic elements are brought together through the presentation of several speeches.

Basic Course  Remedial Course
+SPE 22 THE ART OF CONVICTION AND PERSUASION
3 yrs. 3 hrs.
An introduction to the art of discourse and the practical applications of this art in all aspects of human activities: law, politics, literature and science. It is the aim of the course to make the student aware that every form of the human endeavor must be persuasively and convincingly presented to a community of reasonable beings.

+SPE 23 SPEECH FOR FOREIGN-SPEAKING STUDENTS
3 yrs. 3 hrs.
Students are taught to speak English more effectively by studying the formation of word pronunciation, and the correct stress and rhythm in phrases and sentences. Students practice in conversation, reading aloud and informal speech.

+SPE 24 CAREER COMMUNICATION
3 yrs. 3 hrs.
This course prepares students in the communication skills used most frequently in the professions, business and industry. Emphasis is placed on speaking logically and expressing ideas creatively. Theories of interpersonal communication are presented and practice provided in such speaking situations as job interviews, small group presentations, business meetings, conferences and platform speaking. Clear and acceptable speech is developed.

SPE 25 GROUP DISCUSSION
3 yrs. 3 hrs.
Principles and techniques of group interaction are studied in this course. Conference leadership and participation skills are learned through reading, discussion and practice as well as observation and evaluation of group discussions. Focus is on how learned concepts may be applied to educational, social and business situations.

SPE 27 ORAL INTERPRETATION
3 yrs. 3 hrs.
Students in this course learn to recreate and communicate what writers and poets say in various types of literature. Through guided preparation, analysis, presentation and evaluation of individual readings of materials ranging from simple reports to poetry, students are given the opportunity to develop practical skill and enjoyment in reading aloud. The course is also useful to students of Theatre Arts and Radio Broadcasting.

+SPE 29 VOICE AND ARTICULATION
3 yrs. 3 hrs.
A course designed for students with acceptable speech who wish to study the theory of voice production and the proper formation of the sounds of speech as typified by American standard usage. The mechanics of pitch, volume and quality are studied. Study of phonetic symbols is provided. Assistance is given in overcoming minor speech and voice problems most commonly found in the New York City area.

+Basic Course
SPE 30 DEVELOPMENT OF VOICE

For students who wish to develop the quality of their voices, this study of the theory of voice production, includes: the physiology of vocal production, studied as a prelude to understanding the mechanics of pitch, resonance, projection and quality; breathing and relaxation for speech as supports for good tone production. Totality of the expressive voice is emphasized. Practice is provided in overcoming voice problems and attention is given to proper articulation.

SPE 31 DEVELOPMENT OF ARTICULATION

Emphasis is placed on the correct articulation of the sounds of speech, proper pronunciation, the elimination of regionalism and the development of speech patterns which will enhance students' verbal communication skills. Attention is provided to the faults of vocal production.

SPE 81 INDEPENDENT STUDY

Independent study of Speech is developed individually between student and faculty member and must be approved by the Department.

SPE 82

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
THEATRE ARTS

+ Th.A 50 INTRODUCTION TO THEATRE ARTS 3 crs. 3 hrs.
The various elements which compose theatre are studied both as art forms and as parts of an integrated whole. Study ranges from classical to modern times. The cultural role, as well as the business of theatre, is considered as an institution in society. Films, slides, projects, and guest lecturers are involved to help comprehend the nature of theatre art. Theatre students will be required to participate in technical aspects of a current major theatre production.
Required for Theatre Arts Majors.
Recommended for non-Theatre Arts Majors in Liberal Arts, Business, and the Fine Arts.

+ Th.A 51 PLAY ANALYSIS 3 crs. 3 hrs.
Through consideration of a number of outstanding plays in theatrical history, and the study of various productions given these plays, students gain understanding of the plays and appreciation of the production problems involved. Relevance of the plays to the contemporary stage will be discussed during the course.

+ Th.A 52 ACTING I 4 crs. 4 hrs.
Students explore the basic techniques of sensory awareness, memory, improvisation, character study and role preparation with emphasis on the works of Constantin Stanislavsky. Special projects include presentations and rehearsal techniques for scene study.

Th.A 53 ACTING II 4 crs. 4 hrs.
A continuation of Th.A 52, this advanced classroom and laboratory course furthers sensory awareness, memory and character study for the preparation of a role. Basic vocal and body techniques are employed to explore the psychophysical actions, objectives and superobjectives of characters. Theories of acting are studied and practiced in laboratory situations.
Prerequisite: Th.A 52 or permission of the Department

Th.A 54 LABORATORY/WORKSHOP 1 cr. 3 hrs.
Under faculty supervision students present workshop productions in areas of theatre that require the use of theatrical materials in an experimental manner. Unusual theatrical spaces, masks, puppets, experimental approaches to classic dramas are areas to be explored. Public performances will be given. Student directors and stage designers will be utilized.

Th.A 55 STAGECRAFT 3 crs. 4 hrs.
Through discussion and demonstration, students learn the various elements of production, including theatre organization, stage managing, scenery construction and painting. Each student is required to participate in the major school productions during the course.
Prerequisite: Th.A 50 (may be waived by the Department)

+ Basic Course
Th.A 56 LIGHTING DESIGN
3 hrs. 3 hrs.
An introduction to the field of lighting design for the theatre. Students will be taught the principles of electricity and light and how they relate to designing lights. The lighting designer's procedure and method of operation will be studied and applied in laboratory conditions as well as in actual production. Students will be required to make in-depth studies of lighting particular plays in addition to participating in at least one production at the College.
Prerequisite: Th.A 50

Th.A 57 PUPPETRY
3 hrs. 3 hrs.
Appreciation of puppets and puppetry is developed as their history, production and manipulation is studied. Students apply the techniques of building and using puppets as effective theatre.

Th.A 58 MAKE-UP AND COSTUME DESIGN
3 hrs. 3 hrs.
Through lecture and demonstration, students are taught basic stage make-up and costume design. Working closely with instructors, students learn about theatrical make-up and the proper choice and application needed to create the required character illusion. In the costume shop, students learn the basic elements of costume design. Laboratory sessions in these crafts are required in connection with regularly scheduled theatre productions.
Prerequisite: Th.A 50

Th.A 59 PLAY PRODUCTION
1 hr. 6 hrs.
Performance, technical theatre production, box office management and stage management are areas covered. Students who participate in theatre production while at Kingsborough can earn up to a total of four credits (one each semester) for successful contribution in a production.
Required for all Theatre Arts Majors.

Th.A 62 ACTING III
3 hrs. 3 hrs.
This course involves studies of acting in pre-modern drama with a detailed analysis of the acting styles of selected Classic, Elizabethan, Neo-Classic, Restoration and Romantic drama. Study of historical periods, in regard to language and movement, is supplemented by practice in laboratory situations. Class enrollment is limited.
Prerequisite: Th.A 53 (may be waived by the Department)

Th.A 65 SCENIC DESIGN
3 hrs. 3 hrs.
An introduction to the techniques of scenic design. Students will develop scenic designs based on a sound and thorough knowledge of the theatre. The designer's procedure and method of working will be studied in laboratory conditions as well as in actual production.
Prerequisite: Th.A 55 (may be waived by the Department)

+ Basic Course
Th.A 66 DIRECTING: THE FUNDAMENTALS

3 crs. 4 hrs.

An introduction to the principles of play interpretation, the directorial concept, and methods of focusing audience's attention on dramatic values by synthesizing character, language, idea and plot with exciting design and purpose. 

Prerequisites: Th.A 50 and permission of the Department

Th.A 68 HISTORY OF THE THEATRE

3 crs. 3 hrs.

A study of the history of the theatre from its primitive origins to modern times. The course includes the study of historical documents, contemporary writings and slides of theatre architecture, costumes, scenic designs and related artifacts.

Th.A 69 STREET THEATRE

4 crs. 4 hrs.

A study of, and involvement in, elements which compose street theatre. Students participate in exercises which help create ensemble acting, adaptation of materials to fit the street, and writing and composing music and dance for a particular production.

Recommended background for students enrolling in Th.A 50, 51, 59

Th.A 81 INDEPENDENT STUDY

1-3 crs. 1-3 hrs.

Independent study of Theatre Arts is developed individually between student and faculty member and must be approved by the Department.

Th.A 82

1-3 crs. 1-3 hrs.

This course is of a topical and pilot nature and is designed to meet the immediate needs and interests of various student populations. It is offered for a maximum of two semesters.
FACULTY

Patrick J. Abbazia, Professor, Social Sciences
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Leonard Abrams, Professor and Chairman, Biological Sciences
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John Ferrante, Administrative Superintendent, Buildings and Grounds
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Vimal P. Vadhan, Assistant Professor, Behavioral Sciences and Human Services  
B.A., Jai Hind College; M.A., Bombay University, India; Ph.D., Syracuse University

Richard Vegge, Associate Professor, Business  

Gerald van de Vorst, Assistant Professor, Business  
B.A., J.D., Brussels University, Belgium; M.C.L., Columbia University

Barbara Venito, Adjunct Assistant Professor, Secretarial Science  
B.A., Hunter College; M.A., Richmond College

Robert R. Viscount, Assistant Professor, English  
A.B., University of Pacific; Diploma in Education, University of East Africa;  
M.A., Columbia University

Morton Wagman, Associate Professor, Social Sciences  
B.A., Brooklyn College; M.A., Ph.D., Columbia University

Ronald E. Walcott, Lecturer, English  
B.A., Hunter College

Norman Walter, Adjunct Assistant Professor, Business  
B.S., M.S., Columbia University; C.P.A., State of New York

Delores Washington, Assistant Professor, Nursing  
B.S., Hampton Institute; M.Ed., Columbia University;  
R.N., Hampton Institute, Division of Nursing

Lilly K. Wei, Senior College Laboratory Technician, Art  
B.A., Douglass College; M.A., Columbia University

Stephen S. Weidenborner, Professor, English  
A.B., Princeton University; Ph.D., New York University

Walter Weintraub, Professor, Business  
B.S., M.B.A., New York University

Alfred Weiss, Higher Education Assistant, Computer Center  
B.A., Brooklyn College

Clyde R. Wesley, Higher Education Assistant, Student Development  
B.A., Talladega College

Charles W. West, Associate Professor, Biological Sciences  
A.B., Wabash College; M.S., University of Cincinnati; Ph.D., Rutgers University

Edward Wiener, Professor, Business  
B.B.A., St. John's University; C.P.A., State of New York;  
M.A., New School for Social Research

Eric Willner, Associate Professor, Student Development  
B.A., M.S., Yeshiva University; Ph.D., New York University

Anne Winchell, Assistant Professor, Student Development  
B.A., William Smith College; M.A., New York University;  
Ph.D., Fordham University
Jack S. Wolkenfeld, Professor, English
B.A., Brooklyn College; M.A., Ph.D., Columbia University

Harvey A. Yablonsky, Professor, Physical Sciences
B.S., M.A., Brooklyn College; M.S., Ph.D., Stevens Institute of Technology

Marvin Yanofsky, Assistant Professor, Mathematics and Computer Science
B.A., Brooklyn College; M.A., Yeshiva University

Rina J. Yarmish, Lecturer, Mathematics and Computer Science
B.A., Queens College; B.H.L., Yeshiva University; M.S., New York University

William C. Yenna, Senior College Laboratory Technician, Secretarial Science
B.A., Brooklyn College

Merrill Youkeles, Associate Professor, Behavioral Sciences and Human Services;
Director, Mental Health Assistant Program
B.A., Brooklyn College; M.S.W., University of Pennsylvania;
Ed.D., Teachers College, Columbia University

Zev Zahavy, Associate Professor, English
B.A., M.H.L., Ph.D., Yeshiva University

Arthur N. Zeitlin, Lecturer, Biological Sciences
B.S., Long Island University

Michael Zibris, Jr., Dean of Faculty; Professor, Business
A.A., Chicago City College; A.B., M.B.A., University of Chicago

Nikola Zitar, Assistant Professor, Health, Physical Education and Recreation;
Director, Recreation Leadership Program
B.S., M.A., New York University

In addition to the preceding faculty members, the College anticipates the services of Adjunct Faculty as follows:

<table>
<thead>
<tr>
<th>Department</th>
<th>Adjunct Faculty</th>
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<tbody>
<tr>
<td>Art</td>
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<td>Health, Physical Education and Recreation</td>
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<td>Mathematics and Computer Science</td>
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<td>Social Sciences</td>
<td>6</td>
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<tr>
<td>Speech and Theatre</td>
<td>20</td>
</tr>
</tbody>
</table>

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PROFESSORS EMERITI

Warner S. Bass, Professor, Music
B.M. Music, New York College of Music; M.A., New York University

Irving Alan Dodee, Professor, Mathematics and Computer Science
B.S., City College of New York; M.A., Columbia University; Ph.D., New York University

Irene R. Kierans, Professor, Behavioral Sciences and Human Services
B.A., College of Mount St. Vincent; M.A., Fordham University; Ph.D., New York University

Eunice Miller, Professor, Secretarial Science
A.B., University of Rochester; M.A., Ph.D., New York University

John P. Petrelli, Professor, Student Development
B.A., Brooklyn College; M.A., New York University

Gordon A. Rowell, Professor, Library
B.A., Bowdoin College; B.S., Columbia University; M.A., Teachers College, Columbia University

John O.H. Stigall, Professor, English
A.B. Dartmouth College; B.A., M.A., Magdalen College, Oxford University; L.L.B., Georgetown University; M.A., University of Kansas City; M.A., Ph.D., University of Colorado

BUSINESS OFFICE

Joseph Muscic, Business Manager
A.A.S., Bronx Community College; B.A.A., Bernard M. Baruch College

Margaret Messina, Assistant Business Manager
B.B.A., Bernard M. Baruch College

Leone Cor, Purchasing Officer and Assistant to Business Manager
A.A.S., Kingsborough Community College

William Correnti, Assistant to Business Manager
A.S., Kingsborough Community College

Harriet Katz, Assistant to Business Manager

REGISTRAR’S OFFICE

Herbert Chusid, Registrar
B.A., Long Island University; M.A., New York University

Benjamin N. Eskenazi, Associate Registrar
B.S., M.S., City College of New York

Jerry B. Chase, Assistant Registrar
B.S., University of Colorado

Allan R. Schwartz, Assistant Registrar
B.S., Hunter College; M.A., Teachers College, Columbia University
NOTIFICATION OF POLICY

Kingsborough Community College is an Affirmative Action Equal Opportunity Institution. The College DOES NOT DISCRIMINATE in any way, on the basis of sex, age, color, race, religion, national or ethnic origin or physical handicap in its admission policy, educational or activities programs or hiring procedures.

The College’s Affirmative Action Officer is in Room A-217, ext. 5650.

"Kingsborough Community College complies with the Federal Education Rights and Privacy Act of 1974. The full text of CUNY’s Student Records Access Policy is posted for review in the Registrar's Office and in the Library."

Education Law Section 224-a

Students unable because of religious beliefs to attend classes on certain days

1. No person shall be expelled from or be refused admission as a student to an Institution of Higher Education for the reason that he is unable, because of his religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.

2. Any student in an Institution of Higher Education who is unable, because of his religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each Institution of Higher Education to make available to each student who is absent from school, because of his religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the Institution for making available to the said student such equivalent opportunity.

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

5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each Institution of Higher Education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section.

6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the Supreme Court of the County in which such Institution of Higher Education is located for the enforcement of his rights under this section.

7. As used in this section the term "Institution of Higher Education" shall mean schools under the control of the Board of Trustees of the State University of New York or of the Board of Trustees of the City University of New York or any Community College.
Rules and Regulations for the Maintenance of Public Order
(Henderson Rules)

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

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

To enforce these rules and regulations the Bylaws of the CUNY Board provide that:

- **THE PRESIDENT** with respect to his educational unit, shall:
  
  a. Have the affirmative responsibility of conserving and enhancing the education standards of the college and schools under his jurisdiction;
  
  b. Be the advisor and executive agent to the Board and of his respective College Committee and as such shall have the immediate supervision with full discretionary power in carrying into effect the Bylaws, resolutions and policies of any of its committees and the policies, programs and lawful resolutions of the several faculties;
  
  c. Exercise general superintendence over the concerns, officers, employees and students of his education unit.

**Rules**

1. No member of the academic community shall intentionally obstruct and/or forcibly prevent others from the exercise of their rights, or interfere with the institution's educational process or facilities, or with the rights of those who wish to avail themselves of any of the institution's instructional, administrative, recreational, and community services.

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

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

4. Theft from or damage to university/college premises is prohibited.

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

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

7. Disorderly or indecent conduct on college-owned or controlled property is prohibited.

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

9. It is a violation of acceptable standards of conduct at the college, and it is prohibited for any individual, group or organization to engage in the practice of "hazing":

   "Hazing is defined as any action or situation which recklessly or intentionally endangers mental or physical health or involves forced consumption of liquor or drugs for the purpose of initiation into or affiliation with any organization."
Penalties

1. Any student engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be subject to the following range of sanctions as hereafter defined in the attached Appendix: admonition, warning, censure, disciplinary probation, restitution, suspension, expulsion, ejection, and/or arrest by the civil authorities.

2. Any tenured or non-tenured faculty member, or tenured or non-tenured member of the administrative or custodial staff engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be subject to the following range of penalties: warning, censure, restitution, fine (not exceeding those permitted by law or by the Bylaws of the CUNY Board), or suspension with/without pay pending a hearing before an appropriate college authority, dismissal after a hearing, ejection and/or arrest by the civil authorities. In addition, in the case of a tenured faculty member, or tenured member of the administrative or custodial staff engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be entitled to be treated in accordance with applicable provisions of the Education Law or Civil Service Law.

3. Any visitor, licensee, or invitee, engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be subject to ejection, and/or arrest by the civil authorities.

Sanctions Defined

A. ADMONITION: An oral statement to the offender that University rules have been violated.

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

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

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

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

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

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

H. COMPLAINT TO CIVIL AUTHORITIES:

I. EJECTION.

Adopted by the Board of the City University of New York, June 23, 1969, Calendar No. 3(b).

In addition to Henderson Rules, student conduct and discipline is governed by Article XV of the Bylaws of the City University of N.Y. Students are urged to familiarize themselves with the content of this Article. Copies of the Bylaws are available in the Library.
New York State Education Law
Section 607 Part 53

Retention and Graduation Among Fall 1970-1974 Entrants to Kingsborough Community College

<table>
<thead>
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<th>College and year of entrance</th>
<th>TWO YEARS</th>
<th></th>
<th>THREE YEARS</th>
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<td>30.7</td>
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</table>

Data: CC = CUNY Community College  SC = CUNY Senior College
"Kingsborough Community College has provided us with a sense of pride and accomplishment. I offer my own congratulations to all members of the Kingsborough Community for their dedication, their imagination, and their professionalism. Kingsborough can serve as a model both within the CUNY system and to community colleges everywhere as to what can be done when talent and commitment are focused on real objectives under fair and inspiring leadership".

Robert J. Kibbee, Chancellor,
The City University of New York
OFFICERS of the CITY UNIVERSITY OF NEW YORK

Robert J. Kibbee, Chancellor
Leon M. Goldstein, Acting Deputy Chancellor
Richard M. Catalano, Vice-Chancellor for Faculty and Staff Relations
Dolores Cross, Vice-Chancellor for Special Programs and Student Affairs
Julius C.C. Edelstein, Vice-Chancellor for Urban Affairs
David B. Rigney, Vice-Chancellor for Legal Affairs
Ira H. Fuchs, Acting Vice-Chancellor for University Affairs
Jerald Posman, Vice-Chancellor for Budget and Finance
Leonard O. Reoilia, Vice-Chancellor for Academic Affairs
Richard M. Bossone, University Dean for Instructional Research
Leo A. Corbie, University Dean for Student Affairs and Special Programs
Seymour P. Lachman, University Dean for Community Development
Marilyn Magnar, University Dean for Faculty and Staff Relations
Donal E. Farley, Vice-Chancellor for Facilities Planning and Management
James Lawrence, Budget Director
Milton Drucker, Deputy to the Chancellor for Legislative Affairs
Robin A. Elliott, Deputy to the Chancellor for Executive Personnel

BOARD OF TRUSTEES of the CITY UNIVERSITY OF NEW YORK

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Harold M. Jacobs, B.S., M.S., LL.D.
Albert V. Maniscalco, B.S., LL.B., J.D.
Robert L. Polk, B.A., M.Div., D.D.
Joaquin Rivera, J.D.
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Margaret A. Titone
Ann M. Burton, B.A., M.A., Ph.D., Ex-Officio
Garth Marchant, Ex-Officio
Martin J. Warmbrand, B.A., M.A., Secretary of the Board of Trustees
THE CITY UNIVERSITY OF NEW YORK

is a public institution composed of senior colleges, community colleges, a college of criminal justice, a technical college, an affiliated medical school, a Graduate School and University Center.

In 1847, New York City held a public referendum to find ways to meet the city's growing need for free higher education. The result was the establishment of the Free Academy (now known as City College) and the birth of the University. In 1961, through an act of State legislation, seven municipal colleges operated by the Board of Higher Education became The City University of New York. CUNY has continued to expand until it reached its present prestigious position as the largest urban University in the nation. The University has continued to grow, has added larger, more modern, completely equipped institutions; increased facilities to serve more students; inaugurated evermore innovative far-reaching programs of study; recruited faculty and administrators of the highest caliber with outstanding qualifications and demonstrated interest; included research programs geared to meet urban needs; succeeded in its "Open Admissions" goals which guarantees every high school graduate the opportunity to pursue further education at a City University institution of higher learning.

To assist disadvantaged high school students to enter, and to remain in college, CUNY developed the largest university-sponsored programs in the nation, including the College Discovery Program; Operation SEEK (Search for Education, Elevation and Knowledge); Advanced Placement Programs and others. In addition, CUNY established or sponsored Urban Centers, which offer short-term vocational training and college-adapter courses and are operated under contract with the State University of New York.
Colleges of the City University

Graduate Division
THE GRADUATE SCHOOL AND UNIVERSITY CENTER, founded in 1961
Harold M. Proshansky, President

Senior Colleges
THE CITY COLLEGE, founded in 1847
Bernard Harleston, President
HUNTER COLLEGE, founded in 1870
Donna E. Shalala, President
BROOKLYN COLLEGE, founded in 1930
Robert L. Hess, President
QUEENS COLLEGE, founded in 1937
Saul Cohen, President
NEW YORK CITY TECHNICAL COLLEGE, founded in 1946;
affiliated with the City University in 1964
Ursula C. Schwerin, President
JOHN JAY COLLEGE OF CRIMINAL JUSTICE, founded in 1964
Gerald M. Lynch, President
YORK COLLEGE, founded in 1966
Milton G. Bassin, President
BERNARD M. BARUCH COLLEGE, founded in 1968
Joel Segall, President
HERBERT H. LEHMAN COLLEGE, founded in 1968
Leonard Lieb, President
MEDGAR EVERS COLLEGE, founded in 1968
Richard D. Trent, President
THE COLLEGE OF STATEN ISLAND, founded in 1976
Edmond Volpe, President

Community Colleges
BRONX COMMUNITY COLLEGE, founded in 1957
Roscoe Brown, President
QUEENSBOROUGH COMMUNITY COLLEGE, founded in 1958
Kurt R. Schmeller, President
KINGSBOROUGH COMMUNITY COLLEGE, founded in 1963
Israel Glasser, Acting President
BOROUGH OF MANHATTAN COMMUNITY COLLEGE, founded in 1963
Josué L. Smith, President
EUGENIO MARIA de HOSTOS COMMUNITY COLLEGE, founded in 1968
Flora Mancuso-Edwards, President
FIORELLO H. LA GUARDIA COMMUNITY COLLEGE, founded in 1968
Joseph Shenker, President

Affiliated Institution
MOUNT SINAI SCHOOL OF MEDICINE, affiliated with the City University in 1967
Thomas C. Chalmers, President
CITY UNIVERSITY SPECIAL PROGRAMS

Baccalaureate Degree Program

The CUNY Baccalaureate degree, awarded by the University, brings a flexible new approach to the concept of a liberal arts education. It gives a student maximum opportunity to take courses and work with faculty at other than the home college and permits the student to incorporate individual research, travel, work, community activities and other off-campus activities of educational value into an individually planned course of study. This program is open to students who have completed at least 15 credits at a CUNY college.

Information and applications are available from the campus coordinator (see page 31) or from the Coordinator of the CUNY Baccalaureate Program, The Graduate School and University Center, 33 West 42nd Street, New York, New York 10036.

College Discovery

Students who meet certain requirements, particularly with regard to family income, may be eligible for admission to one of City University's special programs. The Community College level program is called College Discovery. A "first-time admission" applicant, who may be qualified for this program, should complete the section on the admissions application form which pertains to Special Programs. Candidates are selected by a computerized lottery system. Those not chosen for the Special Programs are automatically considered for admission under regular admissions procedures (see page 31).

Computer Facilities

The University Computer Center provides Kingsborough students, faculty, and staff access to a large-scale computing facility for academic and administrative purposes. Batch job processing and teleprocessing services are provided. All standard IBM languages, numerous mathematical, social science, and scientific application packages and comprehensive Database services are available. A portion of the computer is dedicated to a 'free class' of job execution that does not require the establishment of a UCC allocation account. The teleprocessing systems include WYLBUR for text editing and remote job entry, CMS for instructional interactive usage, and APL for scientific uses. Graphic hardware and software is also available to users. In conjunction with the KCC Computer Center, consulting, documentation, and educational services are provided.

The University Computer Center is located at 555 West 57 Street in Manhattan, but KCC's remote job entry stations and public terminals enable access from the campus. For more information, contact the UCC Coordinator of User Services (212) 977-8000, or KCC Computer Center 934-5645.
Foreign Students Program

All applicants who hold, or expect to obtain, temporary (non-immigrant) visas, should obtain the correct application form from the Foreign Students Office of The City University of New York Admissions Services, 875 Avenue of the Americas, New York, N.Y. 10001.

Super Citizens

New York State residents, 65 years of age and over, may attend CUNY colleges under a policy of the Board of Trustees. No tuition is charged to state residents, but a $25. registration fee is charged each semester. Some documentation of age must be submitted.

Students are accepted on a matriculated or non-degree basis, depending upon previous educational experience and the availability of space at the College. Students wishing to apply as matriculated students should check the appropriate filing dates on pages 5-8, 19.

The Office of Admission Services

The Office of Admission Services assists all prospective applicants who are interested in attending one of the colleges of the City University of New York. OAS, in conjunction with the University Application Processing Center (UAPC) processes all freshmen and advanced standing transfer applications and evaluates all foreign educational documents. The office is conveniently located at 101 West 31st Street in Manhattan and contains the following division:

The Information Center: Provides information on: CUNY Admissions Procedures, International Student Admissions, Financial Aid, CUNY Programs and GED information. The Center is open Monday through Thursday from 9:00 A.M.-6:00 P.M., and Friday from 9:00 A.M.-5:00 P.M. Phone—868-6200.

School and Community Services: Disseminates pre-admissions information on CUNY to students and guidance counselors in all New York City High Schools and most of the large community agencies.

Computer Based Educational Opportunity Center (CBEOC): CBEOC is a federally funded program operating in conjunction with CUNY’s Office of Admission Services, whose prime goal is to assist persons from low-income areas to enroll in a post-secondary educational program. Phone: 868-6200.

New York City Regional Center for Life Long Learning: Housed at the Office of Admission Services, the Center for Life Long Learning provides to interested applicants, guidance counselors and community agencies, information about post-secondary educational opportunities available in New York City.

In addition, OAS administers the College Level Examination Program (CLEP) and the Test of English as a Foreign Language (TOEFL). Other functions include the preparation of CUNY publications such as The Guide to Admissions and The CUNY Community Newsletters.
TRAVEL DIRECTIONS TO KINGSBOROUGH

**SUBWAY**

**BMT**

BRIGHTON LINE
- D, QB or M Train to Sheepshead Bay Station; B-49 Bus* or, to Brighton Beach Station; B-1 Bus*

SEA BEACH LINE
- N Train to 86 Street Station; B-1 Bus*

WEST END LINE
- B Train to 25 Avenue Station; B-1 Bus*

FOURTH AVENUE LINE
- RR Train to 59 Street Station; change for Sea Beach N Train to 86 Street Station; B-1 Bus*

**IRT**

LEXINGTON AVENUE LINE
- Trains #4 or 5 to Atlantic Avenue Station; or, to Borough Hall Station; change to Brighton Line Train and Bus*

SEVENTH AVENUE LINE
- Trains #2 or 3 to Atlantic Avenue Station; or, to Borough Hall Station; change to Brighton Line Train and Bus*

**IND**

SIXTH AVENUE LINE
- D Train to Sheepshead Bay Station; B-49 Bus* or, to Brighton Beach Station; B-1 Bus*
- F Train to Avenue X Station; B-1 Bus*

EIGHTH AVENUE LINE
- A Train to Franklin Avenue Station; Shuttle to Prospect Park Station; change to Brighton Line Train and Bus*

**BUS**

- B-1*, B-49*
- B-4, B-36 and B-68 connect with B-1*
- B-2, B-3, B-6, B-9, B-12, B-25, B-31, B-35, B-36, B-45
- B-47, B-48, and B-50 connect with B-49*

*Take these buses to the last stop. Walk straight along Oriental Boulevard directly into the College.
CAR

From Manhattan

Belt Parkway eastbound to Coney Island Avenue - Exit 8. (Note that Exit 8 follows very closely upon Exit 7 and can easily be missed.) Watch for the directional signs leading to the campus. They point the way along the following route: Cross Coney Island Avenue and continue along Guider Avenue to the Stop sign. Turn right on East 12th street for one block. Turn left on Neptune Avenue to the traffic light. Turn right at light on Cass Place and proceed until next traffic light. Turn right on West End Avenue. Turn left at traffic light to Oriental Boulevard which leads directly to the College.

From Queens and Nassau

Belt Parkway westbound to Coney Island Avenue - Exit 8. Watch for the directional signs leading to the campus. They point the way along the following route: Turn right at exit to Voorhies Avenue. Turn right at first traffic light to Sheepshead Bay Road. At second traffic light turn right to Emmons Avenue. At first traffic light turn left to West End Avenue. Turn left at the second traffic light to Oriental Boulevard which leads directly to the College.
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GIFTS and BEQUESTS

Kingsborough Community College does not have endowments. It is supported by allocations from the City of New York and the State of New York. These funds do not fill many crucial gaps which are necessary to stimulate, enrich and further the broad educational objectives of the college. Additional funds are needed for the benefit of the students, faculty, staff and the community at large; to provide awards, grants and loans to students who might otherwise be unable to start or complete their education; to sponsor research, publish, support educational programs and faculty development, and foster the cultural and social life of the college community.

Only gifts, grants, awards and bequests from public-spirited citizens can make these activities possible and meet these urgent needs. They will be most gratefully received.

HOLIDAYS and EMERGENCY COLLEGE CLOSING

Holidays on which the College is scheduled to be closed and no classes held, are listed in the Academic Calendar (pages 5-8).

In the event of Emergency College Closing, due to inclement weather or other factors over which the College has no control, students can get up-to-the minute information by listening to the following radio stations for instructions.

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NOTE: Programs and requirements, tuition and fee schedules listed in the catalog, are necessarily subject to change at any time at the discretion of the administration and/or action by Kingsborough Community College, the CUNY Board of Trustees, the City University or the State University of New York.