

Yeshiva University

Bulletin



CATALOG 1959-61

# YESHIVA COLLEGE

Amsterdam Avenue and 186th Street ■ New York 33, N. Y.

YESHIVA UNIVERSITY BULLETIN



Yeshiva  
College

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This Catalog pertains only to Yeshiva College. For general information on Yeshiva University, consult the Bulletin of General Information, which may be obtained from the Director of Public Relations, Yeshiva University, Amsterdam Avenue and 186th Street, New York 33, N. Y., LOrraine 8-8400.

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*Where to secure information*

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## ACADEMIC CALENDAR

<i>Fall Semester 1959-60</i>	
<i>Registration</i>	TUESDAY-FRIDAY SEPTEMBER 8-11
<i>First day of instruction</i>	MONDAY, SEPTEMBER 14
<i>Last day to enter a new course</i>	SUNDAY, SEPTEMBER 27
<i>Rosh Hashbanah (no sessions)</i>	FRIDAY-SUNDAY OCTOBER 2-4
<i>Fast of Gedaliah (no sessions)</i>	MONDAY, OCTOBER 5
<i>Yom Kippur and Sukkot (no sessions)</i>	SUNDAY, OCTOBER 11- MONDAY, OCTOBER 26
<i>Last day to withdraw from any course</i>	FRIDAY, OCTOBER 30
<i>Election Day (sessions follow Sunday schedule)</i>	TUESDAY, NOVEMBER 3
<i>Sessions follow Friday schedule</i>	WEDNESDAY, NOVEMBER 25
<i>Thanksgiving (no sessions)</i>	THURSDAY-FRIDAY NOVEMBER 26-27
<i>Hanukkah and New Year's Day (no sessions)</i>	THURSDAY-FRIDAY DECEMBER 31-JANUARY 1
<i>Fast of Tevet (no sessions)</i>	SUNDAY, JANUARY 10
<i>Last day of instruction</i>	WEDNESDAY, JANUARY 13
<i>Final Examinations for Fall Semester</i>	SUNDAY, JANUARY 17- TUESDAY, JANUARY 26



## ACADEMIC CALENDAR

	<i>Spring Semester 1960</i>
<i>Registration</i>	MONDAY-FRIDAY JANUARY 18-22
<i>First day of instruction</i>	WEDNESDAY, FEBRUARY 3
<i>Last day to enter a new course</i>	TUESDAY, FEBRUARY 16
<i>Washington's Birthday</i> <i>(no sessions)</i>	MONDAY, FEBRUARY 22
<i>Last day to withdraw from any course</i>	WEDNESDAY, MARCH 2
<i>Fast of Esther and Purim</i> <i>(no sessions)</i>	THURSDAY-SUNDAY MARCH 10-13
<i>Passover (no sessions)</i>	SUNDAY, APRIL 10- TUESDAY, APRIL 19
<i>Sessions follow Sunday schedule</i>	WEDNESDAY, APRIL 20
<i>Israel Independence Day</i> <i>(special activities)</i>	MONDAY, MAY 2
<i>Lag BaOmer (no sessions)</i>	SUNDAY, MAY 15
<i>Last day of instruction</i>	WEDNESDAY, MAY 25
<i>Final Examinations for Spring Semester</i>	SUNDAY, MAY 29- THURSDAY, JUNE 9
<i>Shavuot (no sessions)</i>	TUESDAY-THURSDAY MAY 31-JUNE 2
<i>Commencement Exercises</i>	THURSDAY, JUNE 16

## ACADEMIC CALENDAR

	<i>Fall Semester 1960-61</i>
<i>Registration</i>	TUESDAY-FRIDAY SEPTEMBER 6-9
<i>First day of instruction</i>	MONDAY, SEPTEMBER 12
<i>Last day to enter a new course</i>	FRIDAY, SEPTEMBER 30
<i>Rosh Hashbanah and Fast of Gedaliah (no sessions)</i>	WEDNESDAY-SUNDAY SEPTEMBER 21-25
<i>Yom Kippur and Sukkot (no sessions)</i>	SATURDAY, OCTOBER 1- SUNDAY, OCTOBER 16
<i>Last day to withdraw from any course</i>	FRIDAY, OCTOBER 28
<i>Election Day (sessions follow Sunday schedule)</i>	TUESDAY, NOVEMBER 8
<i>Sessions follow Thursday schedule</i>	TUESDAY, NOVEMBER 22
<i>Sessions follow Sunday schedule</i>	WEDNESDAY, NOVEMBER 23
<i>Thanksgiving (no sessions)</i>	THURSDAY-FRIDAY NOVEMBER 24-25
<i>Hanukkah (no sessions)</i>	MONDAY, DECEMBER 19
<i>Fast of Tevet (no sessions)</i>	THURSDAY, DECEMBER 29
<i>New Year's Day (no sessions)</i>	SUNDAY, JANUARY 1
<i>Last day of instruction</i>	FRIDAY, JANUARY 13
<i>Final Examinations for Fall Semester</i>	TUESDAY, JANUARY 17- WEDNESDAY, JANUARY 25

## ACADEMIC CALENDAR

	<i>Spring Semester 1961</i>
<i>Registration</i>	MONDAY-FRIDAY JANUARY 16-20
<i>First day of instruction</i>	THURSDAY, FEBRUARY 2
<i>Last day to enter a new course</i>	WEDNESDAY, FEBRUARY 15
<i>Washington's Birthday (no sessions)</i>	WEDNESDAY, FEBRUARY 22
<i>Sessions follow Wednesday schedule</i>	MONDAY, FEBRUARY 27
<i>Last day to withdraw from any course</i>	WEDNESDAY, MARCH 1
<i>Fast of Esther and Purim (no sessions)</i>	WEDNESDAY-THURSDAY MARCH 1-2
<i>Passover (no sessions)</i>	THURSDAY, MARCH 30- SUNDAY, APRIL 9
<i>Israel Independence Day (no sessions)</i>	FRIDAY, APRIL 21
<i>Sessions follow Thursday schedule</i>	TUESDAY, MAY 2
<i>Lag BaOmer (no sessions)</i>	THURSDAY, MAY 4
<i>Shavuot (no sessions)</i>	SUNDAY-MONDAY MAY 21-22
<i>Last day of instruction</i>	MONDAY, MAY 29
<i>Final Examinations for Spring Semester</i>	FRIDAY, JUNE 2- MONDAY, JUNE 12
<i>Commencement Exercises</i>	THURSDAY, JUNE 15

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\*on leave 1959-60

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- SHELLEY R. SAPHIRE\* *Professor of Biology*  
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- ELI SAR *Assistant Professor of Hygiene*  
B.A., Yeshiva University; M.A., New York University; M.D., Creighton University
- SAMUEL L. SAR *Professor of Bible*  
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- LOUIS SAS *Visiting Professor of Spanish*  
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- STANLEY WEINTRAUB *Visiting Assistant Professor of Speech*  
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- HYMAN WETTSTEIN *Assistant Professor of Physical Education*  
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- HARRY I. WOHLBERG *Assistant Professor of Bible*  
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\* on leave 1959-60



- MAURICE WOHLGELERNTER** *Instructor in English*  
B.A., Yeshiva University; M.A., Columbia University
- HERMAN WOUK\*** *Visiting Professor of English*  
B.A., Columbia University; L.H.D., Yeshiva University
- ISRAEL YOUNG** *Assistant Professor of Guidance*  
B.S., B.B.A., M.S., City College of New York
- SOLOMON ZEIDES** *Instructor in Library Techniques*  
B.A., Yeshiva University; M.A., M.S. in Library Service, Columbia University

## TEACHING FELLOWS

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B.A., Yeshiva University
- CHARLES PATT** *Teaching Fellow in Mathematics*  
B.A., M.S., Yeshiva University
- HARVEY Z. SENTER** *Teaching Fellow in Mathematics*  
B.A., M.S., Yeshiva University

FACULTY ORGANIZATION  
THE DIVISIONS

All courses of instruction are grouped under four divisions. The divisions and the subjects they comprise are:

1. **Languages and Literature:** Art, English, French, German, Greek, Latin, Music, Spanish, Speech, and Yiddish (jointly with Jewish Studies).
2. **The Natural Sciences:** Biology, Chemistry, Drafting, Hygiene, Mathematics, and Physics.
3. **The Social Sciences:** Economics, Education, History, Library, Philosophy, Physical Education, Political Science, Psychology, and Sociology.
4. **Jewish Studies:** Bible, Hebrew, and Jewish History.

## STANDING COMMITTEES OF THE FACULTY

Faculty Advisory Council	Committee on Tests and Scholastic Standing
Committee on Admissions	Premedical Committee
Committee on Faculty Welfare	Student Activities Policy Committee
Committee on Guidance	Student Activities Judiciary Committee
Committee on the Library	Pre-engineering Committee

\* on leave 1959-60

## YESHIVA UNIVERSITY

**Y**ESHIVA UNIVERSITY, America's oldest and largest university under Jewish auspices, is composed of seventeen schools and divisions providing undergraduate, graduate, and professional studies in the arts and sciences and Jewish learning. It is chartered by the State of New York and accredited by the Middle States Association of Colleges and Secondary Schools.

Situated at six teaching centers in New York City, it offers preparation for careers in the Rabbinate, medicine, education, social work, mathematics, physics, psychology, and many other fields of endeavor to 5,000 young men and women from all parts of the United States and abroad. Its instructional programs are strengthened by an outstanding faculty of 850. The University also sponsors several community service agencies, and a leading program of pioneering research and experimentation, and publishes scholarly journals and books in various fields.

## SCHOOLS AND DIVISIONS

The seventeen constituent schools and divisions include: on the preparatory level—four high schools, two for boys (Main Center, Amsterdam Avenue and 186th Street, N. Y. 33, and 2270 Church Avenue, Brooklyn 26) and two for girls (2301 Snyder Avenue, Brooklyn 26, and 462 West 58th Street, N. Y. 19); on the undergraduate level—two colleges of arts and sciences, Yeshiva College for Men (Main Center) and Stern College for Women (Midtown Center, 253 Lexington Avenue, N. Y. 16); two Teachers Institutes, for Men (Main Center) and for Women (Midtown Center); and nine graduate and professional units—Rabbi Isaac Elchanan Theological Seminary (Main Center); Cantorial Training Institute (Main Center); Bernard Revel Graduate School (Main Center); Harry Fischel School for Higher Jewish Studies (Main Center); Graduate School of Mathematical Sciences (Main Center); School of Social Work (Graduate Center, 110 West 57th Street, N. Y. 19); Graduate School of Education (Graduate Center); Albert Einstein College of Medicine (Bronx Center, Eastchester Road and Morris Park Avenue, Bronx 61); Sue Golding Graduate Division of Medical Sciences (Bronx Center).

## SERVICES

Through its network of community service agencies, Yeshiva University provides a variety of educational, religious, and cultural programs benefiting both the Jewish and general communities. The *Community Service Division* assists traditional congregations throughout the United States and Canada in such areas as adult education, youth activities, and synagogue administration. It also aids graduates of the University's various schools in securing positions. The *Psychological Center* provides mental health assistance to individuals referred by recognized agencies. The *Audio-Visual Center* produces records, tapes, films and film strips of general, educational, and Jewish interest. The *Film Library*, the largest of its kind in New York City, provides educational films on a great variety of subjects to public schools, colleges, and other institutions. *Pictorial Mathematics* makes available illustrations, pamphlets, and other materials designed as mathematical teaching aids.

## RESEARCH AND SPECIAL PROJECTS

With its emergence as a leading center of research, Yeshiva University has expanded its service to the entire nation. Important work in mathematical research, including projects sponsored by government agencies, is being undertaken by the faculty of the Graduate School of Mathematical Sciences. The Teaching Fellowship Program, a project of the Graduate School of Education, is one of the outstanding experimental teacher training programs in the country, and is conducted with the partial aid of a major grant from the Ford Foundation's Fund for the Advancement of Education. Another widely-hailed effort is the National Institute of Mental Health Project, which utilizes the resources of the University's theological and medical schools to design a curriculum of specialized training in mental health for clergymen. With funds granted by both public and private foundations, the University conducts other research in physics, medicine, Talmudic scholarship, psychology, and other vital areas.

## PUBLICATIONS

Among the noteworthy publications issued by Yeshiva University are *Horeb*, *Talpioth*, and *Sura*, periodicals published in Hebrew and covering Jewish history, law, literature, and culture; *Scripta Mathematica*, a leading quarterly journal devoted to the expository and research aspects of mathematics; and *Mathematica Press*, a series of original books by leading mathematicians.

## BRIEF HISTORY

Yeshiva University is the result of a pioneering movement to serve both the Jewish community and the nation as a whole, as an expression of the Jewish people in a free society. In its undergraduate programs, it has been guided since its founding by a philosophy which stresses the importance of providing young men and women with full knowledge of both general and Jewish culture as a key to professional and communal leadership. Its graduate and professional schools, which are coeducational and nondenominational, offer a full range of master's and doctoral programs.

Founded in 1886 as a small theological seminary on the Lower East Side of New York City, Yeshiva University moved to its present Main Center in 1929. Responding to the ever-changing needs of a dynamic society, the University has continually added new schools and divisions. In recent years, its growth has encompassed the establishment of six pioneering units—Stern College for Women (1954), Albert Einstein College of Medicine (1955), Sue Golding Graduate Division of Medical Sciences (1957), Graduate School of Education (1957), School of Social Work (1957), and the Graduate School of Mathematical Sciences (1958). Today, with its vigorous complex of schools, Yeshiva University retains its original aim—to broaden the base of educational opportunity.

## YESHIVA COLLEGE

Yeshiva College, established in 1928, is the University's college of arts and sciences for men. The basic purpose of the College is to educate young men in the broadest and richest sense of the word, and to prepare them for life in a community in which leadership is based on the fullest knowledge of Jewish and general culture. To this end, students at Yeshiva College receive an education in the liberal arts and sciences and, at the same time, in Jewish religion and culture. With an enrollment of about 600 students representing every part of the United States and several foreign countries, Yeshiva College has an informal atmosphere which brings student and faculty into a close harmonious relationship.

Yeshiva College has granted 1588 Bachelor of Arts degrees. Among its graduates are many distinguished leaders of the American Jewish community. The Yeshiva College Alumni Association furthers the interests of the College and helps to maintain friendships by means of meetings, dinners, and newsletters.

Classes are held at the Main Center Sunday through Thursday afternoons (generally between 2:00 and 7:30 p.m.) and Friday mornings (9:00 a.m. to 1:00 p.m.). In the mornings, students pursue their Jewish studies in the Teachers Institute for Men, the Rabbi Isaac Elchanan Theological Seminary, or the Jewish Studies Program.

The academic year consists of two semesters, each 16 weeks in length including examinations. The year ends with Commencement, and the new school year begins the following day.

Yeshiva College is accredited by the Middle States Association of Colleges and Secondary Schools, and its curriculums are registered by the New York State Education Department. Courses of study lead to the degrees of Bachelor of Arts and Bachelor of Science.

## THE MAIN CENTER

The Main Center in historic Washington Heights is the home and hub of Yeshiva University. Situated on Laurel Hill, the site of a famous Revolutionary War conflict, it is bounded on the north and south by 187th and 184th Streets, and on the west and east by Audubon Avenue and Laurel Hill Terrace, which overlooks the picturesque Harlem River. Verdant Washington Park is adjacent to the campus area.

Yeshiva College's location at the Main Center provides stimulating association with several of the University's graduate and professional schools and makes major University resources easily accessible to the College student.

The following Yeshiva University graduate and professional schools are situated at the Main Center: the Teachers Institute for Men, the Rabbi Isaac Elchanan Theological Seminary, the Cantorial Training Institute, the Graduate School of Mathematical Sciences, the Bernard Revel Graduate School, and the Harry Fischel School for Higher Jewish Studies.



Physical facilities at the Main Center include:

**MAIN BUILDING** containing classrooms, laboratories, the Yeshiva College Gymnasium, and major administrative offices.

On the ground floor are: the Office of the President; the administrative offices of the Rabbi Isaac Elchanan Theological Seminary; the Harry Fischel Synagogue-Study Hall; and the Nathan Lamport Auditorium, scene of important University events.

On the second floor may be found the Mendel Gottesman Library, one of the world's leading collections of Judaica.

The administrative offices of the Teachers Institute for Men are located on the third floor; and on the fourth floor are the administrative offices of Yeshiva College, classrooms, laboratories, the Student Cooperative Store, and other related facilities.

**RIETS HALL** home of the Audio-Visual Center; the Herman Gerofsky Physics and Research Center; the Office of the Bursar; the Admissions Office; the Office of Alumni Activities; and Klein Hall, where conferences, receptions, and film showings are held.

**THE DANCIGER CAMPUS** including the newly developed campus area bounded on the east and west by Laurel Hill Terrace and Amsterdam Avenue, and on the north and south by 186th and 184th Streets. On this rolling tract overlooking the Harlem River, such outdoor events as the annual Commencement Exercises are held. At the south end of the campus stands the Leah and Joseph Rubin Residence Hall, a new seven-story ultra-modern dormitory building providing living quarters for resident Yeshiva College students. It houses the Lipschutz-Gutwirth Study Hall and the Dining Room, which seats more than 500 and serves kosher meals seven days a week. Located at the north end of the campus is the High School Residence Hall.

**GRADUATE HALL** housing classrooms and the administrative offices of the Bernard Revel Graduate School and the Harry Fischel School for Higher Jewish Studies, and the Department of Public Relations.

**POLLACK LIBRARY** the main library of the University, whose shelves hold a comprehensive collection of books and periodicals designed to aid undergraduate and graduate students in the arts and sciences.

**SCIENCE HALL** housing graduate and undergraduate science laboratories, and the activities of the Graduate School of Mathematical Sciences.

**STUDENT ACTIVITIES BUILDING** home of student government offices, student publications, and undergraduate special interest clubs.

There are several other buildings at the Main Center which house the diversified activities of the Community Service Division and other operations. Plans are under way for the development of a new campus area which will consist of a field house, a modern college building, and other facilities which the University has projected.

## CURRICULUMS

## BACHELOR OF ARTS

## MAJORS

Each student must select one subject as a major. The student must have the permission of an instructor of the subject, and must also get this instructor's approval of his planned course of study. The subjects in which one may major are listed below, with the page number where the requirements for that subject are given:

Biology, p. 47	Mathematics, p. 69
Chemistry, p. 49	Philosophy, p. 73
Classical Languages, p. 51	Physics, p. 76
Economics, p. 52	Political Science, p. 78
English, p. 56	Premedical-Pre dental Studies, p. 21
French, p. 59	Psychology, p. 80
German, p. 60	Psychology-Education, p. 55
Hebrew, p. 62	Sociology, p. 82
History, p. 65	

No student may take courses in his major subject at another school without special permission. In any event, at least 18 credits in the major subject must be taken at Yeshiva College.

## PRE-PROFESSIONAL STUDIES

**Premedical and Pre dental Major:** The following courses are required for the premedical-pre dental major: Chemistry 9-10; 13a, 14a; Biology 1-2; Mathematics 1-2; and Physics 1-2.

Each premedical and pre dental major, at the end of his freshman year, is required to designate another subject as his minor. His future program will then be adjusted to allow him to take as many courses as possible in this subject.

**Pre-Law Training:** Students planning to enter law school upon completion of their college studies may major in any subject. The following courses, however, are recommended to such students, whatever their major: Political Science 1; 27; 28; Economics 1, 12; History 29; 30; 44. The Registrar serves as the adviser to pre-law students.

## DEGREE REQUIREMENTS

Candidates for the degree of Bachelor of Arts (i.e., all students except those taking the pre-engineering program) must complete prescribed and elective courses amounting to 128 credits, of which not more than eight may be in Physical Education. One credit represents one academic hour of lecture or recitation, or two academic hours of laboratory work, per week for one semester, or the equivalent, unless otherwise stated in the course listing. A semester consists of 16 weeks; an academic hour, of at least 50 minutes.

Except in unusual cases, students must have at least two years' residence at Yeshiva College, one of which must be the senior year, in order to be eligible for the degree.

A student must complete all requirements for graduation within six years of the date of matriculation, excluding time lost because of serious illness or service with the armed forces.

The candidate must have an average of 2.0 or better in all his studies and a grade of C or better in all courses in his major subject presented for the major requirement.

*The following courses are required for all students:*

JEWISH STUDIES:

All students attending Yeshiva College (YC) must pursue simultaneously courses in Jewish studies in one of the following: the Rabbi Isaac Elchanan Theological Seminary (RIETS), Teachers Institute for Men (TIM), Jewish Studies Program (JSP).

RIETS Students: YC students enrolled in RIETS must take the following courses in YC:

	Credits
<sup>1</sup> Bible—one course each semester of attendance.....	8
Hebrew—four semesters .....	12
History 71-72 .....	6

The Hebrew must be taken in the freshman and sophomore years and the History in the junior year, unless written permission for a change is received from the College Office.

Descriptions of these courses may be found in this Catalog.

No credit toward the B.A. or B.S. degree is given for work done in RIETS.

TIM Students: YC students enrolled in TIM must transfer 16 credits from TIM at the rate of 4 each semester the first two years of attendance, unless written permission for a change is received from the College Office.

Two 2-credit courses taken in TIM each of the first four semesters are entered upon the YC record. For further information, see page 64.

JSP Students: YC students enrolled in JSP must transfer 26 credits from JSP at the rate of 4 each semester the first three years of attendance and 1 each semester the fourth year, unless written permission for a change is received from the College Office. One composite grade is given each semester for all work done in JSP that semester. This work is entered as a unit on the YC record in the form indicated on page 64.

NATURAL SCIENCE:

	Credits
Biology or Chemistry or Physics 1-2 or 1a-2a .....	6-8
<sup>2</sup> Hygiene 1-2 .....	2
Mathematics 1-2 (for science majors only) .....	6

<sup>1</sup> While students must take Bible and Physical Education each semester of attendance, at least four semesters of each must be passed.

<sup>2</sup> Premedical and Predental majors may substitute Art 1 and Music 1 for Hygiene 1-2.

SOCIAL SCIENCE:

<sup>1</sup> One year (History 35;36 must be taken if American History is not offered for admission) .....	6
<sup>2</sup> Physical Education—one course each semester of attendance.....	4

LANGUAGES AND LITERATURE:

English 1-2, 3-4 .....	12
<sup>3</sup> Speech 1-2, 3;4 .....	2-6
Foreign language .....	6-12

All students except those majoring in Biology, Chemistry or Premedical and Pre dental Studies are required to take two years of French, German, Greek, Latin or Spanish (but not higher than course 4).

Majors in Biology, Chemistry or Premedical and Pre dental studies are advised to fulfill the above requirement, but are required to take only one year of French or German.

Foreign students proficient in one of the above languages may be excused from the requirement.

Students who plan to do graduate work are advised to consult the catalogs of the graduate schools they are interested in before deciding on their choice of a foreign language.

*Comprehensive Examinations:* In order to be eligible for graduation, each senior must take comprehensive examinations, which the school uses for the determination of honors at graduation as well as for evaluation and diagnosis. At present, the Graduate Record Examinations of the Educational Testing Service are employed for these purposes. Each student must take the Area Tests and the Advanced Test in his major subject. (Special examinations are prepared in those subjects for which the ETS does not have tests.) These tests are administered at the University every spring.

PROGRAMS OF STUDY

For the convenience of students, the normal programs of study for the Bachelor of Arts degree are shown below.

<sup>1</sup> Chosen from the following: Economics 1; History 1;2;35;36; Philosophy 9-10; Political Science 1; Psychology 1; Sociology 1.

<sup>2</sup> While students must take Bible and Physical Education each semester of attendance, at least four semesters of each must be passed.

<sup>3</sup> Majors in Biology, Chemistry, and Premedical and Pre dental Studies who have received grades of B or better in Speech 1 and 2 will be excused from taking Speech 3 and 4, with the approval of their instructor in Speech 2.

**Majors in Laboratory Science** (Biology, Chemistry, Physics, Premedical and Pre dental)

<i>Freshman Year</i>	<i>Sophomore Year</i>
English 1-2 .....3 cr. ea.	English 3-4 .....3 cr. ea.
*Science 1-2 .....4	Science 11-12 .....3 to 5
Jewish Studies .....4	Second Science .....4
Mathematics 1-2 .....3	Jewish Studies .....4
Hygiene 1-2 .....1	Phys. Ed. 3-4 .....1/2
Speech 1-2 .....1	
Phys. Ed. 1-2 .....1/2	

**Majors in Other Subjects** (Economics, English, French, German, Classical Languages, Hebrew, History, Mathematics, Philosophy, Political Science, Psychology, Psychology-Education, and Sociology)

<i>Freshman Year</i>	<i>Sophomore Year</i>
English 1-2 .....3 cr. ea.	English 3-4 .....3 cr. ea.
Language 1-2 .....3	Language 3-4 .....3
Jewish Studies .....4	Jewish Studies .....4
History 1;2 or Mathematics 1-2 .....3	Science 1-2 (or 1a-2a) ....4 or 3
Hygiene 1-2 .....1	**Major Courses .....2 or 3
Speech 1-2 .....1	Phys. Ed. 3-4 .....1/2
Phys. Ed. 1-2 .....1/2	

**Prospective Teachers** (other than Psychology-Education Majors)

<i>Fifth Semester</i>	<i>Sixth Semester</i>	<i>Seventh Semester</i>	<i>Eighth Semester</i>
§Psychology 1	§Psychology 16	§Education 21	Education 32 or 25
§Education 11	§Education 12	Education 51	Education 52
		Psychology 36	Psychology 13
			Psychology 35 or 38

**Junior Year:** Students who are required to take Speech 3;4 and who have not taken it yet should do so now. Students who have not yet met the Social Science requirement do so now.

*Bulletins giving more detailed information on the course of study in specific majors are available.*

\* Premedical and pre dental students should take Chemistry as their first science.

\*\* Majors in Languages and Hebrew should take Speech in the sophomore year and go on to advanced courses in the junior year.

§ These courses are most important.

## BACHELOR OF SCIENCE

## MAJOR

## Pre-engineering Studies

## DEGREE REQUIREMENTS

Degree requirements are the same as those for the Bachelor of Arts, with the following exceptions:

1. The only Speech courses required are 1 and 2.
2. Art 1 and Music 1 are required.
3. The specific social sciences required are Economics 1 and History 2.
4. The foreign language requirement can be satisfied with one year of any one of the following languages: French, German, Greek, Latin, Spanish. Students whose high school language preparation enables them to enter course 2 need take only that semester. (This is the usual class for students who have had three years of a language in high school with a B average). Students who can demonstrate an intermediate knowledge of one of these languages by getting 600 or higher on the appropriate Achievement Test or a grade of 2 (passing) on the Advanced Placement Test of the College Entrance Examination Board will be excused from the language requirement.
5. All students must take at least the following science courses: Chemistry 1-2; Physics 1-2, 11a, 12a, and 13, 14\*; Mathematics 1-2, 11, 12\*\*, 13, 14, and 23-24\*; and Drafting 1a-1b.\*\*\*
6. Students with superior records who receive the privilege of transferring to New York University College of Engineering at the end of their junior year, as described below, will be excused from the requirement of a fourth year of Physical Education and a fourth year of Jewish studies.

## THE COMBINATION PLAN

While the course of study at Yeshiva College is ordinarily four years for pre-engineering majors, as for all others, a Combination Plan has been worked out between Yeshiva College and the New York University College of Engineering under which a student who attends Yeshiva College for three years and receives the recommendation of the Pre-engineering Committee will be admitted by the NYU College of Engineering as a junior. He will attend NYU for one summer and two years, and qualify for degrees at both Yeshiva College and NYU.

Yeshiva University will confer the Bachelor of Science degree upon a student undertaking the Combination Plan at the successful completion of the fourth year of study. Under normal circumstances, NYU will confer the appropriate engineering degree at the close of the program.

\* Students transferring to NYU will substitute the equivalent course there.

\*\* Mathematics 3-4 may be substituted for 1-2 and 11, 12.

\*\*\* Students planning to become electrical engineers may be excused from Drafting with the permission of the Pre-engineering Committee.

The degree conferred by Yeshiva University under these conditions is to be considered a *privilege rather than a right*. A student will not be eligible for the Yeshiva University degree unless his general average during the three years at Yeshiva College is at least a B and unless his grades in the natural sciences, mathematics, and technical subjects show *at least* comparable quality. In addition, the Pre-engineering Committee must recommend the candidate to the President for the Yeshiva University degree.

The chairman of the Pre-engineering Committee at Yeshiva College acts as a coordinator of the program and advises students. One year before the student plans to enter the New York University College of Engineering, a report on the student's record is sent to it by Yeshiva College.

#### PROGRAM OF STUDY

For the convenience of students, the normal program of study for the Bachelor of Science degree is shown below.

<i>Freshman Year</i>	<i>Sophomore Year</i>
English 1-2 .....3 cr. ea.	English 3-4 .....3 cr. ea.
Chemistry 1-2 .....4	Physics 1-2 .....4
Jewish Studies .....4	Jewish Studies .....4
Phys. Ed. 1-2 .....1/2	Phys. Ed. 3-4 .....1/2
Mathematics 1-2 .....3	Mathematics 11,12 .....3
Speech 1-2 .....1	Drafting 1a-1b .....1 1/2
Hygiene 1-2 .....1	Art 1; Music 1 .....1
<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 16 1/2	<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 17
 <i>Junior Year</i>	 <i>Senior Year</i>
Jewish Studies .....0-4 cr. ea.	Jewish Studies .....0-1 cr. ea.
Phys. Ed. 5-6 .....1/2	Phys. Ed. 7-8 .....1/2
Physics 11a,12a .....4	Physics 13,14 .....3
Mathematics 13,14 .....3	Mathematics 23-24 .....3
Language .....0-3	Electives .....8-10
Economics 1; History 2 .....3	
Electives .....0-6	<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 15 1/2-16 1/2
<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 16 1/2-17 1/2	

#### NOTES:

1. Students who enter Mathematics 3-4 will continue with Mathematics 13, 14 in the sophomore year. They should take 23-24 in the junior year and 35-36 (or another course) in the senior year.
2. Prospective chemical engineers should postpone Physics 1-2 to the junior year and 11a, 12a to the senior year (and, if necessary, their language to the senior year) and should take Chemistry 11, 12 in the sophomore year and 13a, 14a in the junior year.



3. Science courses highly recommended as electives to be taken in the junior or senior years are Physics 19 and Mathematics 35-36.
4. Engineering electives in the senior year may include the following, if the schedule allows:

<i>Prospective field of engineering</i>	<i>Courses to be taken at NYU or elsewhere</i>	
Aeronautical	Mechanics of Materials	
Chemical	Intro. to Chemical Engineering	
Civil	Mechanics of Materials, Surveying, Descriptive Geometry	
Electrical	Principles of Electrical Eng. & Lab.	
Engineering Physics	Principles of Electrical Eng. & Lab.	
Industrial	Manufacturing Methods Mechanics of Materials Principles of Electrical Eng. Surveying	} Depending on Option
Mechanical	Principles of Electrical Eng. & Lab.	
Metallurgical	Nature of Solid State, Metallographic Lab.	

Students in the Combination Plan will take the courses listed above in the summer following their junior year, preceding their other courses at New York University.

### ACADEMIC REGULATIONS

Students are responsible for contents and requirements in this Catalog and for official notices placed on the College Bulletin Board, *which should be consulted daily*, outside Room 408, Main Building.

#### ATTENDANCE

Students are expected to attend all their scheduled class sessions and college exercises and to be present promptly at the beginning of the hour, unless prevented from doing so by illness or other compelling cause. In particular, students should avoid being absent immediately before or after a holiday or vacation, as this is regarded as interfering with the collective interest of the College.

A record of each student's attendance in each class is kept, and each absence must be excused. Any unexcused absence renders the student liable to warning. Generally, a student's attendance record will be taken into account whenever there may be occasion to determine his status in the University. A statement should be filed with the Office of the Assistant Dean within ten days of the student's return to school after being absent, if the student wishes the absence to be excused. Ordinarily only a physician's note will be accepted as an excuse for an absence because of illness.



If a student's unexcused absences in a course exceed per semester the number of meetings per week of the course, he may be penalized by lowering of grade or reduction of credit. Lateness counts as half an absence.

Continued absence without excuse will result in dropping the student from the course with a grade of G. In addition, such students will render themselves liable to being placed on probation. Flagrant cases of absence in several courses may necessitate withdrawal from the College.

If a student is absent or seriously incapacitated through illness for a considerable portion, but less than half, of a semester, his schedule will ordinarily be reduced.

If a student is absent from the College for any cause for more than half a semester, the semester will not be counted toward a degree and the student will not be allowed to take any of the examinations.

#### EXAMINATIONS

No reexaminations are given. Makeup examinations may be given only if a student is absent because of illness certified by a physician's note, or some equally compelling cause, and even then only if the instructor wishes to do so. The fee charged each student for a makeup examination administered by the College Office is \$1.50 per hour.

An examination may be postponed only on account of illness or some equally compelling reason which causes absence at the time of the examination, or immediately preceding it, or for a considerable portion of the semester. Whenever possible, permission to postpone an examination must be obtained from the Dean of the College before the examination. In other cases the request for a makeup test should be made as soon as possible after the examination.

When a student does not avail himself of the privilege of postponement, but takes the regular examination, his record must stand and will not be altered on the ground of illness.

When a student is absent from a test, and the absence is due to illness or equally compelling cause, the absence shall not be counted against his record. The instructor in charge of the course shall determine whether the test is to be waived or a makeup test given. In case the absence is not of the above kind, the student's standing is to be determined by the instructor in charge of the course.

If a student arrives late at any examination, and has no valid excuse for his lateness, he is to be given the test and permitted to do what he can in the remainder of the allotted time, but he is not to be given any extension of time at the close of the examination.

Cheating on an examination will subject the offending student to disciplinary action including possible expulsion from the College.

## GRADES

The work of each student is graded on the following basis:

A = Excellent

P = Passed

B = Good

R = To continue course

C = Fair

T = (followed by B, C, D,  
or F) = Tentative grade

D = Poor (lowest passing grade)

F = Failed

W = Withdrew without penalty

G = Dropped by student  
(counted as failure)

A tentative grade is given for incomplete work, absence from the final examination, or borderline work where a re-evaluation is desirable. The required work must be completed or the retest taken within one month of the end of the semester. Unless the Office is informed by that time that the grade is to be changed, the tentative mark becomes the final one.

The mark of R is given in clinic and remedial courses when it is advisable that the student be continued in the class.

Withdrawal from courses requires the permission of the Dean. Unless this permission is obtained, the student will receive a G, equivalent to failure, in those courses from which he has withdrawn. Except under unusual circumstances, withdrawal from a course will not be allowed after the first month of sessions.

## ACADEMIC AVERAGE

Each grade has a numerical value, as follows: A, 4; B, 3; C, 2; D, 1; F, 0. When the numerical value is multiplied by the credit value of the course, a figure is derived which is known as the number of quality points.

The student's average rating is computed by dividing the number of quality points earned by the total number of credits completed, including courses failed. The average is rounded to the third decimal place.

Grades achieved in other accredited American colleges and universities will be averaged in with a student's record at Yeshiva College, provided that the grades are based on the same system as that of Yeshiva College.

## DEAN'S HONOR LIST

Each year, full-time students who have achieved a scholastic average of distinction will be included on the Dean's Honor List, which will classify those listed as follows:

"With Honor": 3.400-3.599 average

"With High Honor": 3.600-3.799 average

"With Highest Honor": 3.800-above

Inclusion on the Dean's Honor List becomes part of the student's permanent record.

### HONORS AT GRADUATION

Honors are conferred at graduation on the basis of the student's grades through the January preceding Commencement and his scores on the Graduate Record Examinations, averaged in such a way that the GRE results constitute the equivalent of 16 credits. The mathematical formula used to calculate this honors average is available upon request from the Registrar.

Degrees will be conferred with honors as follows:

*cum laude*—an average of 3.400 and the approbation of the Faculty.

*magna cum laude*—an average of 3.600 and the approbation of the Faculty.

*summa cum laude*—an average of 3.800 and the unanimous approbation of the Faculty.

The above statement does not apply to students who have taken fewer than 94 credits at Yeshiva College. For them the grade of honors to be awarded, if any, will be specifically determined by the Committee on Tests and Scholastic Standing.

### SCHOLASTIC STANDING

Every student must consistently so conduct himself as to give evidence of high-mindedness and seriousness of purpose. The College reserves the right to request at any time the withdrawal of any student who indicates a lapse in this regard, or who fails to maintain the required standard of scholarship (an average of at least 2.0), or who for any reason is considered by the College as not in sympathy with its standards and ideals. A student in the last category may be asked to withdraw even though no specific charges are made against him.

### PROBATION

Students may be placed on probation for any of the following causes: unsatisfactory scholastic record; unsatisfactory attendance record; unsatisfactory conduct; admission with a condition.

Probation is continued for at least a semester and involves any or all of the following restrictions or conditions: ineligibility for financial aid; ineligibility for participation in extra-curricular activities (unless specifically permitted to do so by the Dean or the Committee on Tests and Scholastic Standing); ineligibility for a full program of courses; obligation to attend all classes and College exercises.

Probation will serve as a serious warning to the undergraduate and his parent or guardian that his record is unsatisfactory and that significant improvement is expected.

### INDEPENDENT WORK

*Procedure:* Students with faculty sponsorship may request permission to do work outside of regular courses of the types and under the conditions described below.

The request must be on a special form, available in the College Office, which provides space for an outline of the project and for the recommendations of the faculty sponsor and the chairman of the division.

Credit will be determined in advance by the Committee on Tests and Scholastic Standing, subject to final confirmation upon the successful completion of the work undertaken, the presentation of the paper and the passing of such examinations as the Committee may set.

**Advanced Reading Courses:** Advanced reading courses will be authorized by the Committee under the following conditions:

- 1—Junior or senior standing.
- 2—Quality point average in the major of 3.0.
- 3—Sufficient course preparation, normally consisting of at least two years of study in the subject.
- 4—Evidence that regular courses are not available or do not suffice for the student's needs.
- 5—Examinations and papers to be prescribed as in regular courses, with copies to be submitted to the Committee.
- 6—Approval of a faculty sponsor and the division chairman.
- 7—Work differing from Honors Work in the following respects: the topic may cover a broader area; secondary reading is acceptable; less emphasis may be placed on the paper and more on mastery of the field covered. (The program of study must nevertheless offer a unity of plan.)
- 8—Submission of the request for an advanced reading course at least one month before the course is to start.

An advanced reading course is listed on the student's record as "(Subject) 61."

**Honors Work:** Honors work will be authorized by the Committee for individual students who meet the following requirements:

- 1—Senior class standing.
- 2—Quality point average for three years of 3.4.
- 3—Choice of a subject in the major.
- 4—Presentation of an outline for a thesis attesting to independent study and utilization of primary sources, the study and the paper based on it to have a unity of plan, to be specific enough for a scientific report, and to represent genuinely distinguished work.
- 5—Recommendation of the chairman of the appropriate division as well as of the faculty sponsor.
- 6—Submission of the request for honors work at least two months before the student plans to start work.

An honors course is listed on the student's record as "(Subject) 63."

## CREDITS FOR ENROLLMENT IN CLASSES

The number of credits which a student is required to have in order to enroll in each class is as follows:

<i>Class</i>	<i>Credits</i>	<i>Class</i>	<i>Credits</i>
Upper Freshman	12	Upper Junior	78
Lower Sophomore	28	Lower Senior	94
Upper Sophomore	45	Upper Senior	111
Lower Junior	61	Graduation	128

No student, however, will be enrolled as a sophomore until he has removed all entrance conditions and completed all required freshman courses; and any student who is at any time carrying a sufficient number of credits to complete the total required for graduation will be registered as an upper senior.

A student will not be graduated until he has received all the credits prescribed, and until all his indebtedness to the University has been discharged.

## PROGRAMS

**Work Load:** The normal number of credits for a full semester's work is  $15\frac{1}{2}$  to  $16\frac{1}{2}$ . Students with averages of C or higher may carry 17 credits.

A student on the Dean's List will be permitted, if he satisfies the Registrar or the Dean of his need for an overload, to register for 35 credits ( $17\frac{1}{2}$  each semester) during his sophomore, junior, or senior year. The student will not, however, be permitted to take 35 credits two years in succession.

Students not on the Dean's List but whose records are satisfactory will be permitted to register for 35 credits during their senior year, if in the judgment of the Registrar or the Dean the overload is justified.

**Summer Work:** The minimum number of credits a student should have at the end of each semester is listed in the paragraph headed "Credits for Enrollment in Classes." Students who have fallen behind in their class because of failure in a course or because they were given a limited schedule may make up the missing credits during summers under the following conditions:

- (1) Up to 6 credits can be taken during one or more summer sessions without affecting the total number of credits allowed during the regular school year. Only as many credits as are needed by the student will be permitted, but in no event may they exceed 6.
- (2) In order to qualify for such a summer program or programs the student must have had a 2.0 average for the previous year with no grade less than C.

- (3) Such permission will be revoked if the student's record raises doubts about his ability to profit from the privilege.
- (4) Under no circumstances will permission to take summer courses under the above conditions be granted for the purpose of acceleration. All students must spend four years in college for a degree.

**General:** No credit will be given for an elementary course taken after completing an advanced one. For example, no credit will be given for Hebrew 01 through 04 if Hebrew 1 or any other higher-numbered course was previously passed.

A student registering for a course for which he does not have the prerequisites may be denied grade and credit for the course.

A student who fails a required course (including  $\frac{1}{2}$  and 1 credit courses) twice in succession may be dropped from the College.

A full-time student is defined as one who is enrolled for at least 12 credits during a semester or at least 24 credits during one academic year.

No student may take courses at another school without special permission. Ordinarily permission will not be granted to take courses in the student's major subject.

A student who has achieved a passing grade in a course may not retake it. In exceptional cases, the Committee on Tests and Scholastic Standing may give permission to a student who received a D to retake the course, provided that the student has not taken another course in the subject after receiving the D.

#### GRADUATE COURSES

College seniors with acceptable records are permitted to take graduate courses for undergraduate credit in the Bernard Revel Graduate School, the Harry Fischel School for Higher Jewish Studies, the Graduate School of Education, and the Graduate School of Mathematical Sciences. The student must demonstrate that there is no suitable course that he can take on the undergraduate level, and that the graduate class is a liberal arts course and one in which the instructor can test and grade undergraduates in accordance with College regulations. Courses in a major subject may not be taken unless special permission is received from the major instructor.

A student who wishes to register for a graduate course must first secure the written permission of its instructor. He will then register and pay for the course through the College Office in the normal manner. The admission permit issued to him is then to be presented to the office of the appropriate graduate school, which will give him a special admission card.

Under exceptional circumstances, seniors may take graduate courses for graduate credit, in accordance with the regulations of the graduate schools. Students so concerned should consult the Registrar.

## MISCELLANEOUS

**Leaves of Absence and Maintenance of Matriculation:** Students who are unable to return to the College because of illness or other personal reasons are advised to request a formal leave of absence if they expect to return to the institution at some future time. If they do not obtain such a leave, readmission may be denied.

Leaves of absence are ordinarily granted for only one semester, renewable for one additional semester.

A maintenance of matriculation fee must be paid while a student is on leave (see Tuition and Fees, page 42). This gives the student, if he desires, the privilege of continuing his course of study under the regulations in force at the time he was granted the leave.

**Records and Transcripts:** A transcript will not be issued for a student without his written request, except to another school or to a government agency. In these cases, transcripts will be issued upon the request of the school or agency. A transcript will not be sent to an employer or prospective employer without permission of the student.

Records of students will be sent out only in the form of a transcript. No partial records will be sent, nor ones listing only courses without grades.

A change in the family name on a student's record requires presentation of a court order. Given names will be changed if a satisfactory explanation for the request is presented in writing to the Dean.

**General:** The College is not equipped to transmit personal telephone messages to students except in dire emergency. Students should instruct their friends and family not to attempt to telephone them at the College.

All injuries and accidents to students while engaged in classroom work will be reported by the staff member in charge of the course. Students are required to report immediately to the College Office any other injury suffered on the College premises.

All posters and notices announcing events must carry the name of a sponsoring club or faculty member. If they do not, they will be removed.

No student may use the name of the University in print for any purpose, including identification, without written permission of the College Office.

If the instructor does not appear within ten minutes of the starting time of a class, the class is to send a representative to the College Office for instructions. If the Office is closed, the class is permitted to leave after twenty minutes.



## STUDENT WELFARE AND ACTIVITIES

## HOUSING

Those undergraduates who do not live with their parents or relatives are expected to reside in a University dormitory. The completely up-to-date Leah and Joseph Rubin Residence Hall was recently constructed at a cost of \$1,500,000. Located on the Danciger Campus, it houses about 350 students and serves as the social and recreational center of the College. A full-time supervisor, residing there with his family, oversees the operation of the Residence Hall with a full staff of assistants.

In the Dining Room of the Residence Hall, students are served three meals daily in strict accordance with the laws of Kashruth.

## HEALTH SERVICE

The Medical Director provides each student with a physical examination upon admission. Thereafter, health advice and consultation are available whenever needed.

A student suffering from any illness or physical disability is expected to report to the Medical Director immediately so that the latter may be aware of this fact, even if the student is to be treated by physicians outside the University. A fully-equipped medical office is maintained on the ground floor of the Leah and Joseph Rubin Residence Hall.

## GUIDANCE PROGRAM

The Assistant Dean for Student Affairs has as his special province the satisfactory adjustment of students to the College and to their individual classes. He is in charge of the student guidance program—personal, religious, curricular, and vocational—and maintains liaison with the University's Psychological Center. He also has general supervision over the following: (1) Co-curricular activities; (2) the Leah and Joseph Rubin Residence Hall; (3) students on probation; (4) student attendance in class. The student guidance program is conducted by a Guidance Department headed by a Director under the supervision of the Assistant Dean.

The Guidance Department, assisted by faculty advisers, attempts to help students solve their academic and personal problems. Personal contact is established with each student through interviews and group discussions. Placement tests are used whenever desirable. So that incoming students might be introduced to college life under the most favorable conditions, entering freshmen are required to attend, in the week preceding the opening of classes, an orientation program consisting of advisement, placement and psychological tests, and socials. Each freshman is also required to take the orientation course described on page 73. With this course as a foundation, guidance and service are continued during the student's entire college career.



#### AUXILIARY SERVICES

Students of the College can make full use of the University's Auxiliary Services. Among those most helpful are:

*Audio-Visual Center:* In addition to producing material for the general public, the Center conducts courses in the College which provide students with the opportunity to learn how to use audio-visual methods and equipment in teaching and youth work. It also sponsors a film society and film forums, which invite the participation of interested students.

*Psychological Center:* The Center administers and evaluates the aptitude and psychological tests given to new students as part of the orientation program. Students who seek guidance can be referred to the Center.

*Community Service Division:* The Division, in addition to its activities designed to help the Jewish community at large, conducts a placement bureau which aids students in finding part-time and summer jobs and helps graduates find permanent employment.

These and other resources of the University are described in detail in the Bulletin of General Information, which is available upon request.

#### CO-CURRICULAR ACTIVITIES

Although all students at Yeshiva College follow a dual program of general and Jewish studies, many co-curricular activities are available to them. These activities are designed to afford students self-expression and to integrate the varied aspects of Yeshiva College life in informal settings, through participation in group and team activities.

*Student Government:* The College has a Student Council composed of elected representatives from the four classes. It is the chief agency of the student body in dealing with matters affecting students and with relationships between students and University authorities.

*Athletics:* At Yeshiva College, athletics are designed to encourage the participation of every able-bodied student either in varsity sports or in the comprehensive intramural program. Varsity sports with intercollegiate schedules include basketball, wrestling, tennis, and fencing. The University is a member of the National Collegiate Athletic Association, Tri-State Collegiate Basketball League, Eastern College Athletic Conference, Metropolitan College Tennis Conference, and the Metropolitan Association of the Amateur Athletic Union.

*Clubs:* A number of clubs, some inspired by classroom work, have been organized. Some of these are the Chemistry Club, Eranos (classical languages and history), International Relations Society, Literary Society, and the Sociology Club. Three national honor fraternities have chapters in the College:

the Gamma Delta chapter of Eta Sigma Phi provides recognition for honor students in the classical languages; the Alpha Omega chapter of Pi Delta Phi, in French; and Psi Chi's chapter, in Psychology. The College also sponsors a Debating Team and a Chess Team which take part in intercollegiate competition.

**Co-operative Store:** The students operate the Co-operative Store, which sells books, supplies, records, electrical equipment, and clothing at reduced rates.

**Dramatic Presentations:** Opportunities are afforded students for dramatic expression in the varsity shows and in annual class competitions held at the Dean's Reception.

**Music:** The University Music Department conducts several co-curricular activities. The instrumental and choral groups offer students who want to participate in musical programs an opportunity to do so, and a voice clinic provides individual vocal consultation. There are facilities for piano practice, and other instruments (mainly violins) may be borrowed. The Department's Music Library, containing books, music, and records, is open to students engaged in musical study. Undergraduate students may also use the facilities of the University's Cantorial Training Institute.

**Publications:** Students edit and publish several newspapers, yearbooks and other publications. The student newspaper is *The Commentator* and the yearbook is *Masmid*. The French club publishes *Le Flambeau*, a journal concerned with French and Jewish culture.

## ADMISSION

### APPLICATIONS

**Where to Apply:** All correspondence on matters of admission to Yeshiva College should be addressed to the Director of Admissions, Yeshiva University, Amsterdam Avenue and 186th Street, New York 33, N. Y.

All applicants for admission will be asked to report for an interview, either at the University itself or to its representative in their own vicinity.

**When to Apply:** Candidates may apply any time after completion of their junior year of high school (but not later than April 15 of the senior year) for admission the following September. (No regular freshman class is admitted in February.)

**Early Decision Plan:** Action is normally taken on applications upon the receipt of grades for the first half of the senior year. However, superior students will be admitted on the basis of their record through the junior year, provided that they also score above average on the Scholastic Aptitude Test of the College Entrance Examination Board (CEEB). Students who wish earlier notification of admission should therefore take the Scholastic Aptitude Test in May of their junior year or the following August.

## REQUIREMENTS

**Units:** An applicant for admission to Yeshiva College must be a graduate of an academic high school. He must present 16 units of secondary school work in college preparatory subjects. (To earn one unit a student must attend classes in a major subject at least 180 forty-minute periods per school year; a half unit is given for the same amount of work in a minor subject, i.e., one not requiring preparation.) Of these 16 units, 10½-12 are required, as follows:

ENGLISH (four years required).....	4
MATHEMATICS (college preparatory*)	
for pre-engineering majors .....	3
for all others .....	2½
FOREIGN LANGUAGE (two years of one language).....	2
HISTORY (American, European, or World).....	1
SCIENCE (General Science, Biology, Chemistry, or Physics)	
for pre-engineering majors (one of which must be	
Chemistry or Physics).....	2
for all others .....	1

The remainder of the sixteen units required for admission may be chosen from any college preparatory subjects, with no more than one and one-half units to be presented in commercial subjects.

In New York State, a Regents Examination must be taken in every subject offered for admission credit if the high school gives such examinations.

**Conditions:** High school graduates presenting 16 units of work but lacking one of the course requirements listed above may be admitted on a conditional basis. Such students must satisfy the condition by the end of the first year to be eligible to return for the sophomore year. Exceptions may be made to this rule in the case of foreign students entering with a condition in American History. The regulations concerning admission with conditions will be sent on request by the Director of Admissions.

**Average:** To qualify for admission to Yeshiva College, a candidate must present a high school average of B or its equivalent. If the college recommendation grade of the high school from which the student comes is higher than a B, the student must meet that grade. The above average is the weighted average, which includes Regents grades in New York State. In addition, the average of the English marks and the average of the Social Studies marks should each be at least C+ or the equivalent. Applicants who wish to major in one of the natural sciences must present an average of at least B in their science courses.

\* College preparatory mathematics should include topics selected from algebra and geometry (demonstrative and analytic), and for pre-engineering majors, trigonometry and possibly elementary calculus and probability and statistical inference. The point of view should be in harmony with contemporary mathematical thought, and emphasis should be placed upon basic concepts and upon the principles of deductive reasoning regardless of the branch of mathematics from which the topic is chosen. Courses designed for other purposes (e.g., consumer mathematics, business mathematics, shop mathematics) are not acceptable.

The Committee on Admissions may require higher averages from students who come from schools whose academic standards are not known to the Committee or are believed to be low.

**College Boards:** All applicants must take tests given by the CEEB. The results of these tests will supplement the high school grades in determining admission, and will also be used for placement and guidance.

All candidates must take the Scholastic Aptitude Test and three Achievement Tests: the English Composition Achievement Test and two others. Applicants for the pre-engineering program must take one of the Achievement Tests in Mathematics, but with the permission or at the direction of the Pre-engineering Committee an Achievement Test in one of the other sciences may be substituted. Applicants other than pre-engineering students may choose any two tests from the following list: Biology, Chemistry, Physics, Intermediate Mathematics, Advanced Mathematics, Social Studies, French, German, Spanish, Italian, Latin, Greek. However, the Committee on Admissions, at its discretion, may limit an applicant's choice.

The tests are given at various locations every December, January, February, March, May, and August. The College prefers that applicants take the Scholastic Aptitude Test (morning program) not later than February and the Achievement Tests (afternoon program) in March. While these tests are usually given on Saturday, Jewish students, upon request, are permitted to take them the following day. Those who live in or near New York City are requested to take the tests at the College. Full information will be sent on request by the Director of Admissions.

**Other Requirements:** The Committee on Admissions also considers the character, personality, and contributions to school life of applicants in deciding on their admission.

#### ADMISSION WITH ADVANCED STANDING

**Transfer Students:** Applicants who have already attended another college must satisfy the same requirements as applicants who come directly from a high school, including the requirement of the CEEB tests. However, students who have taken 30 or more credits at another accredited college and have secured high grades may be excused by the Committee on Admissions from taking the Achievement Tests. Such applicants must be in good standing at the college from which they come, as regards both scholarship and character.

No credit will be given for any course transferred from another college with a grade below a C, nor for any subject which is technical or commercial or in any way not ordinarily classified as liberal arts. All evaluations of work done in other institutions are tentative and subject to reevaluation within one year.

No credit towards the degrees of Bachelor of Arts or Bachelor of Science will be granted for rabbinical ordination. However, an applicant who has

ordination will be examined in Hebrew and Bible, and on the basis of the examination may be granted a maximum of 12 credits in Hebrew and 8 in Bible.

*Veterans:* A veteran honorably discharged from the armed forces of the United States with service of at least one year will be granted 4 credits for completion of basic training and military service—2 in lieu of Hygiene 1-2 (Personal and Community Hygiene) and 2 in lieu of Physical Education 1-4 (Physical Training). Veterans with at least two years of service will be allowed an additional 2 credits in lieu of Physical Education 5-8.

Credit for courses taken with the Armed Forces Institute will be granted in accordance with the regulations of the State Education Department and with the recommendations of the American Council on Education.

*Advanced Placement Program:* College credit can be granted only for courses taken or work done in recognized colleges or comparable institutions. However, advanced standing (without credit) will be granted to students who perform well on the Advanced Placement Tests of the CEEB.

Freshmen of high attainments and superior secondary school preparation can qualify for advanced placement (without credit) in a number of subjects by earning high scores on the Advanced Placement Examinations of the CEEB. The purpose of this program is to encourage superior students to use their college years to best advantage by allowing them to avoid repetition of work covered in secondary school. The time saved in this manner will be available for achieving a broader general education or a more intensive study of the major.

Students who have had college-level courses in high school are urged to take these examinations, which are given in the following subjects: American History, Biology, Chemistry, English, European History, French, German, Latin, Mathematics, Physics, and Spanish. Grades on these tests are reported on a five-point scale; 1 indicates failure and 5, high honors. The examination papers of an applicant who receives a grade of 2 or higher will be submitted to the College instructors who teach the equivalent courses. The instructors will examine the papers and interview the student to determine the extent of his knowledge and decide whether the advanced courses he has taken actually correspond to the Yeshiva College courses. If the instructors are satisfied, the student will be exempted from the courses. If the instructors desire, the exemption will be granted on the condition that the student take an advanced course in the College in the same subject.

These examinations are administered during the second week in May at centers throughout the country. Students who wish to take them must register between mid-February and the first week in April. Application blanks and copies of the Bulletin of Information may be obtained by writing to:

Advanced Placement Examinations  
College Entrance Examination Board  
P. O. Box 592  
Princeton, New Jersey

Under exceptional circumstances, advanced placement will also be granted for passing the college-level tests of General Educational Development in accordance with the same procedures described above.

#### FOREIGN APPLICANTS

The records of all applicants who have attended foreign schools must be sent to the University evaluation authorities, who will decide whether the records show work equivalent to the completion of an American high school program and whether advanced standing may be granted.

The procedure to be followed in such cases is given on a separate form entitled "Evaluation of Foreign Credentials," which will be sent on request by the Director of Admissions.

#### APPLICANTS WHO ARE NOT HIGH SCHOOL GRADUATES

Applicants who are not high school graduates (or foreign applicants who do not have the equivalent diploma or who cannot produce records) may be admitted if, in addition to the College Entrance Examination Board Tests, they also pass the High School Equivalency Examination administered by N.Y. State (commonly called the "GED test"). While the passing mark is a 45 average, the minimum required by Yeshiva College for admission is 50, with a minimum of 35 on each test.

Full details about the GED test may be secured from any high school in New York or, in other states, from the department of education.

A diploma from a correspondence school will not be accepted for admission. Students with such diplomas will be required to take and pass the GED test, as described above.

#### STUDENTS IN SPECIAL CATEGORIES

**Provisional Students:** Students whose records are not complete and those admitted with conditions are classified as provisional students and do not become regular students until their records are clear (see *Conditions*, page 38). Students who have been placed on probation because of poor academic records may also be reclassified as provisional students.

**Unclassified Students:** Under special circumstances students may be allowed to register for courses pending the filing or evaluation of their credentials. They are designated as unclassified students, a status which may be continued for a period not exceeding one semester, and are treated as provisional students.

**Irregular Students:** Applicants who satisfy the admission requirements but who wish to enroll only for certain courses without pursuing a regular program leading to a degree may be admitted as irregular students. Such students must meet the same standards as regular students and are allowed credit for courses successfully completed.



**Transient Students:** Students in good standing at other colleges and universities who desire to take courses at Yeshiva College may register, with written permission from their home schools, as transient students and select courses to meet their particular needs. Such students must meet the same standards as regular students and must otherwise comply with all college regulations and requirements.

**Special Students:** Applicants who give evidence of fitness by reason of maturity and previous training and demonstrate ability to maintain standards of progress but do not qualify for admission under the categories listed above may be admitted as special students. No credit is allowed for work completed under this classification.

### TUITION AND FEES

Tuition .....	\$900.00	per year
Dormitory rental .....	350.00	per year
Dormitory Registration fee .....	20.00	per year
University Registration fee .....	65.00	per year
Maintenance of Matriculation fee.....	20.00	per semester
	35.00	per year
Student Activities fee .....	10.00	per year
<i>Laboratory fees:</i>		
Chemistry 13-14 and 13a-14a.....	30.00	per course, per semester
All other Chemistry courses.....	25.00	per course, per semester
All other laboratory courses.....	20.00	per course, per semester
Makeup examination fee .....	1.50	per hour of testing
Change of program fee .....	2.00	per course
Late registration fee .....	2.00	per course
Transcript fee .....	1.00	per transcript or evaluation
Application for Scholarship .....	15.00	
Graduation fee .....	25.00	

**Part-time Students:** Part-time students (those taking less than 12 credits a semester) are charged \$30.00 a credit. Special students who wish to audit courses without credit are charged \$15.00 a credit.

**Payment Procedure:** Tuition, dormitory charges, and all applicable fees must be paid in advance of each semester during the period of registration. Students who withdraw from the school with the approval of the Dean no later than the last day to drop courses will receive a refund of 75% of their payment upon written application to the Office of the Bursar. Students who withdraw after that date are responsible for their tuition charge for the entire semester. Under no condition will fees (other than tuition or dormitory rental) be refunded.

The laboratory fee includes the cost of consumable supplies and the normal wear and tear on equipment. Students whose breakage exceeds the usual amount will be charged for the excess.

**Tuition Plan:** For parents who prefer to pay in installments, the College offers the convenience of the Tuition Plan, whereby parents may remit charges in eight equal monthly payments during the academic year. Parents who contract with the Tuition Plan Inc. do so at a cost to them of only 4% of their total charge. For further details, contact the Office of the Bursar, Yeshiva University, Amsterdam Avenue and 186th Street, New York 33, N. Y.

### LIVING EXPENSES

With the exception of Tuition, Fees, and Dormitory rental, living expenses at Yeshiva College are individual matters. Such personal items as food and clothing expenses are naturally subject to a great deal of variation. Meals in the Dining Room of the Leah and Joseph Rubin Residence Hall are served cafeteria style.

Because of their heavy programs, students cannot expect to take part-time jobs during the school year. Some students may be able to secure summer jobs that will pay part of their expenses. Foreign students, however, should note that government regulations limit or prohibit such work.

### FINANCIAL AID

By utilizing the University's comprehensive programs of scholarships and loans, all qualified students can enroll at Yeshiva College regardless of their ability to pay.

#### SCHOLARSHIPS

A wide variety of scholarship grants are available for deserving students.

The University's annual publication, *Scholarships*, contains a complete list of donors. Allocations are made on the basis of need, scholastic ability, and character, with financial need the chief criterion in determining the amount of the grant. Scholarships are granted for the academic year and are renewable annually.

Scholarships created by friends of the University are an important source of financial aid. Many students attend Yeshiva College on scholarships awarded by industrial corporations and government agencies, such as the National Merit Scholarships, General Motors Scholarships, and New York State Regents College Scholarships.

Yeshiva University's policy of fair and equitable distribution of scholarship funds is furthered by its association with the College Scholarship Service of Princeton, New Jersey, a cooperative organization of more than 190 leading colleges. The Service assists academic institutions in the increasingly difficult task of allocating scholarship funds. It evaluates the student's scholarship application, and makes an objective recommendation which helps the University to determine the amount of any scholarship grant.

#### *How to Apply for a Scholarship:*

Students seeking scholarship aid upon entering Yeshiva University are required to submit, in addition to the Application for Admission, a separate Application for Scholarship together with a Parents Financial Statement. Both forms may be obtained from the Office of the Bursar.



The Application for Scholarship should be sent to the Office of the Bursar by May 1. The Parents Financial Statement must be forwarded directly to the College Scholarship Service, Box 176, Princeton, N. J.

Yeshiva University will notify the student of its decision on his request for financial aid within four to six weeks after the filing of the Application for Scholarship and the Parents Financial Statement.

For additional scholarship information, consult the Office of the Bursar, Yeshiva University, Amsterdam Avenue and 186th Street, New York 33, N. Y.

#### STUDENT LOANS

The Yeshiva University National Defense Student Loan Program, authorized by the National Defense Education Act of 1958, provides loan funds from which needy students may borrow on reasonable terms for the purpose of completing their higher education. Recipients of loans at Yeshiva College will be selected by the University. The law requires that each borrower be a full-time student and that he be in need of the amount of the loan. A student may borrow in one year a sum not exceeding \$1,000 and during his entire course in higher education a sum not exceeding \$5,000. The law itself establishes certain basic conditions covering student loans, including a requirement that repayment of the loan begin one year after the borrower ceases to be a full-time student and that it be completed within 10 years thereafter. No interest on the student loan accrues prior to the beginning of the repayment schedule, and interest thereafter is paid at the rate of 3% a year.

The National Defense Education Act also states that up to 50% of his loan (plus interest) may be canceled in the event the borrower becomes a full-time teacher in a public elementary or secondary school. Such cancellation is to be extended at the rate of 10% over a period of five years.

The New York State Higher Education Assistance Corporation makes possible low-cost commercial bank loans with liberal repayment terms.

To allow ample time for the processing of student loan applications, they should be submitted by May 1.

Complete information on student loans may be obtained from the Office of the Bursar, Yeshiva University, Amsterdam Avenue and 186th Street, New York 33, N. Y.

## DESCRIPTION OF COURSES

*Definitions:* For the convenience of students, certain terms frequently used in this section of the catalog and elsewhere are defined below:

Corequisite	A requirement which must be met at the same time as a certain course is taken. Thus, a student who wishes to take Biology 14L must take Biology 14 simultaneously.
Colloquium	A reading course on important books with group discussion led by a panel of experts from different subject areas.
Elective	A course which a student may choose to take, as distinguished from a prescribed course, which he must take.
Intersession	The period between semesters. A short intensive course given at the very beginning or very end of the summer is known as an intersession course.
Prerequisite	The preliminary requirement which must be met before a certain course can be taken. Thus English 1 is a prerequisite for all other courses in English and must be successfully completed before other English courses are taken.
Prescribed course	One required for graduation, either for all students or those in a particular major or area of study.
Section	A division of a course, as between one or more instructors, but having the same subject matter, such as History 16 sections D and G.
Transcript	A certified unabridged copy of the student's academic record.

*General Comments*

Subjects are listed alphabetically. The credit value of each course is listed following its description; unless otherwise stated, one credit is granted for one academic hour of work a week during a semester.

Parentheses around the title of a course indicate that the course is not expected to be offered during the period covered by this catalog.

In general, an odd number indicates that a course is given in the fall; an even number, that it is given in the spring.

Courses which extend through two successive semesters are differentiated as follows:

Courses in which the first is a prerequisite for the second and *both* must be taken in order to receive credit for either are *hyphenated* (e.g., Education 51-52).

Courses in which the first is a prerequisite for the second but credit is given for the first course alone are connected by a *comma* (e.g., Bible 37, 38).

Courses which may be taken separately or in any order, and for which credit is given for each, are separated by a *semicolon* (e.g., English 19;20).

## ARABIC

Properly qualified upperclassmen may receive permission to take the following course as an elective in the University's Bernard Revel Graduate School:

### IV, 201-2 ELEMENTARY ARABIC

*3 credits each semester.*

## ART

### 1 INTRODUCTION TO ART

The development of an appreciation and understanding of the pictorial arts; the elements of painting, sculpture, architecture, and other arts, illustrated with color slides; masterpieces of representative styles and periods analyzed as individual works and as expressions of the cultures that produced them.

*2 hours, 1 credit.*

### \*18 ART FROM THE RENAISSANCE TO 1800

The history of painting, sculpture, and architecture from the Renaissance through the 18th century; slide illustrations and visits to the City's museums of art.

*Prerequisite:* Art 1 or permission of the instructor.

*2 credits.*

### \*19 19th CENTURY ART

The pictorial arts from about 1800 to the turn of the century; the successive movements and ideologies in their social and cultural surroundings: Neoclassicism, Romanticism, Realism, Impressionism, and Postimpressionism.

*Prerequisite:* Art 1 or permission of the instructor.

*2 credits.*

### \*20 20th CENTURY ART

Contemporary movements: Fauvism, Futurism, Cubism, Surrealism, non-objective art and Abstract Expressionism; emphasis on Matisse, Soutine and Chagall.

*Prerequisite:* Art 1 or permission of the instructor.

*2 credits.*

\* Art 18, 19, and 20 were numbered 23, 21, and 25 respectively until June 1959.

**22 THEORY OF ART AND ESTHETICS**

Historical and contemporary concepts of art and criticism; analysis of form, media, and content in painting, architecture, sculpture, music and literature; the arts in their interrelation.

*Prerequisite:* Art 1 or permission of the instructor. *2 credits.*

**24 JEWISH CONTRIBUTIONS TO ART**

Jewish contributions to art and Jewish motifs in art; emphasis on contemporary expression and the art of Israel.

*Prerequisite:* Art 1 or permission of the instructor. *2 credits.*

**BIBLE****1 through 8 THE HEBREW BIBLE: TEXT AND COMMENTARIES**

Reading of the Hebrew text; philological and exegetical analysis, based on medieval commentators and Midrashic expositions.

- |                                    |                             |
|------------------------------------|-----------------------------|
| 1. Minor Prophets except Hosea     | 5. Psalms                   |
| 2. Jeremiah and the Five Megilloth | 6. Job                      |
| 3. Proverbs                        | 7. Isaiah                   |
| 4. Ezekiel and Hosea               | 8. Daniel and Ezra-Nehemiah |

*Prerequisite or corequisite:* for Bible 1;2—Hebrew 03-04; for Bible 3;4—Hebrew 1-2; for Bible 5;6; 7;8—Hebrew 3-4.

*2 hours; 1 credit each semester.*

**37, 38 ARAMAIC**

For the description of this course, see Hebrew 37, 38.

**BIOLOGY**

A student majoring in Biology is required to take 24 credits in Biology; also Mathematics 1-2 or 3-4 and Chemistry 9-10 or 1-2. The following are also recommended: Physics 1-2; Chemistry 13a.

**1-2 GENERAL BIOLOGY**

The basic principles of biology; emphasis on forms selected from the different plant and animal groups.

*2 lecture and 4 laboratory hours; 4 credits each semester.*

**1a-2a BIOLOGY FOR NON-SCIENCE MAJORS**

Scientific methods and their applications to the important problems of biology.

*2 lecture and 2 laboratory hours; 3 credits each semester.*

**11a-12a COMPARATIVE VERTEBRATE EMBRYOLOGY  
AND ANATOMY**

The development and structure of the various systems of the vertebrates.

*Prerequisite:* Biology 1-2.

*2 lecture and 4 laboratory hours; 4 credits each semester.*

**14 GENETICS**

The laws of heredity, variation, natural and artificial selection, inheritance of acquired characteristics, theory of the gene, human genetics and eugenics. *Biology majors who elect this course must take Biology 14L simultaneously.*

*Prerequisite:* Biology 1-2.

*2 credits.*

**14L GENETICS LABORATORY**

The correlation of cytological observations and breeding experiments with the help of elementary biometric analysis.

*Corequisite:* Biology 14.

*4 laboratory hours; 2 credits.*

**15 HISTOLOGY**

Microscopic study of animal tissues and organs, with practice in the more usual methods of histological technique.

*Prerequisite:* Biology 1-2.

*2 lecture and 4 laboratory hours; 4 credits.*

**16 INVERTEBRATE ZOOLOGY**

*Prerequisite:* Biology 1-2.

*2 lecture and 4 laboratory hours; 4 credits.*

**17 GENERAL PHYSIOLOGY**

The principles of physiology necessary for the study of the organs and systems; the methods of physiology, cellular organization, physical and chemical nature of protoplasm, hydrogen-ion concentration, osmosis, permeability, enzymes, cellular oxidation-reduction, electrical activity of cells, excitability, contractility.

*Prerequisite:* Biology 1-2. A knowledge of elementary chemistry and physics is desirable.

*2 lecture and 4 laboratory hours; 4 credits.*

**18 VERTEBRATE PHYSIOLOGY**

The functions of the different systems of the vertebrates, with emphasis on experimental methods and evidence; individual and group experiments.

*Prerequisite:* Biology 17.

*2 lecture and 4 laboratory hours; 4 credits.*

**(19 GENERAL BOTANY)**

*Prerequisite:* Biology 1-2.

*2 lecture and 4 laboratory hours; 4 credits.*

**(20 PLANT PHYSIOLOGY)**

*Prerequisite:* Biology 19. *2 lecture and 4 laboratory hours; 4 credits.*

**(21, 22 PHYSIOLOGY OF MAN)**

Not for biology majors or premedical students.

*2 credits each semester.*

**23, 24 MICROBIOLOGY**

The structure, development, identification, and control of bacteria, yeasts, molds, and protozoa, with analytical laboratory procedures and experimental methods of research; emphasis placed in the second semester on the physiological properties of microorganisms important to the fields of applied microbiology: food, agriculture, and medicine.

*Prerequisite:* Biology 1-2.

*2 lecture and 4 laboratory hours; 4 credits each semester. With permission of the instructor, the lectures alone can be attended for 2 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**CHEMISTRY**

A student majoring in Chemistry is required to take Chemistry 1-2, 11, 12, 13, 14; also Mathematics 11 and Physics 1-2. Chemistry 15 and 16 may be substituted for 14. Mathematics 12 and 13 are also recommended. Although Physical Chemistry is not required for the major, it is a requirement for admission to graduate courses in many institutions, and students are strongly urged to take it.

**1-2 ELEMENTARY INORGANIC CHEMISTRY**

Basic facts and theories, and an introduction to scientific methods and laboratory techniques.

*Prerequisite or corequisite:* Mathematics 1-2 or 3-4.

*3 lecture and 3 laboratory hours; 4 credits each semester.*

**1a-2a GENERAL CHEMISTRY FOR NON-SCIENCE MAJORS**

The basic principles of the science with emphasis on the inorganic field; special attention to the correlation of chemistry with physics and biology; laboratory work, including experiments of practical interest in the inorganic and organic fields and also in biochemistry and physical chemistry.

Chemistry 2 will be required for students who have completed this course and desire to take advanced courses in chemistry.

*3 lecture and 3 laboratory hours; 4 credits each semester.*

**9-10 INORGANIC CHEMISTRY WITH QUALITATIVE ANALYSIS**

The contents of Chemistry 1-2 and 11 in one year, covering the essential facts and theories of inorganic chemistry, with laboratory work in semimicro qualitative analysis of the cations. Designed especially for biology, pre-medical, and pre dental majors.

*3 lecture hours; 3 laboratory hours the first semester and 4 the second;  
4 credits each semester.*

**11 ADVANCED INORGANIC CHEMISTRY**

Chemical equilibria, atomic structure, and complex ions; laboratory work in qualitative analysis.

*Prerequisite: Chemistry 2. 3 lecture and 5 laboratory hours; 5 credits.*

**12 QUANTITATIVE ANALYSIS**

Principles and practice in the analysis of inorganic compounds; experiments in various techniques of volumetric and gravimetric analysis.

*Prerequisite: Chemistry 11. 3 lecture and 5 laboratory hours; 5 credits.*

**13, 14 ORGANIC CHEMISTRY**

First semester: the aliphatic compounds; second semester: the aromatic compounds; in addition to organic synthesis, the laboratory work will include elementary organic qualitative analysis.

*Prerequisite: Chemistry 12.  
3 lecture and 6 laboratory hours; 6 credits each semester.*

**13a, 14a ORGANIC CHEMISTRY FOR BIOLOGY AND  
PREMEDICAL STUDENTS**

*Prerequisite: Chemistry 11 or 10.  
3 lecture and 3 laboratory hours; 4 credits each semester.*

**15, 16 PHYSICAL CHEMISTRY**

The general laws of physical chemistry.

*Prerequisite: Chemistry 12, 13; Physics 1-2; Mathematics 11, 12.  
3 credits each semester.*

**15L, 16L EXPERIMENTAL PHYSICAL CHEMISTRY**

Experiments in physical chemistry to accompany Chemistry 15, 16.  
*4 laboratory hours; 2 credits each semester.*

**21, 22 HISTORY OF CHEMISTRY**

The major discoveries in chemistry and the development of its basic theories.

*Prerequisite: Chemistry 1-2. 2 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**CLASSICAL LANGUAGES**

A student majoring in Classical Languages is required to take two years of Latin (not including 01-02) and two years of Greek; also such additional courses, not exceeding 15 credits, as may be prescribed by the instructor for the individual student.

**GREEK****01-02 ELEMENTARY COURSE**

Emphasis on understanding Greek literature in the original, with grammar employed only as a means toward that end. First semester: parallel Biblical passages in the Septuagint, in Josephus' *Targum*, and in Philo; second semester: Plato's *Apology* and *Crito*, with discussion of his influence on Philo. *3 credits each semester.*

**1-2 MASTERPIECES OF GREEK POETRY**

First semester: selections from Homer's *Iliad*; second semester: one play of each of the tragedians—Aeschylus, Sophocles, and Euripides.

*Prerequisite:* Greek 01-02. *3 credits each semester.*

**3-4 ADVANCED COURSE**

Content to vary with the needs and interests of the class; can be taken for two or more successive years.

*Prerequisite:* Greek 1-2 or equivalent. *3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**LATIN****01-02 ELEMENTARY COURSE**

First semester: preparation for reading Latin literature as soon as possible; second semester: selections from Latin literature, particularly Caesar and Cornelius Nepos. *3 credits each semester.*



**1-2 CICERO AND VIRGIL**

First semester: the orations of Cicero the lawyer and statesman, with their relation to Roman history, politics, law, and literature; second semester: selections from the *Aeneid*, with emphasis on its poetic qualities and on Virgil's status and influence.

*Prerequisite:* Latin 01-02 or two years of high school Latin.  
*3 credits each semester.*

**3-4 ADVANCED COURSE**

Content to vary with the needs and interests of the class; can be taken for two or more successive years.

*Prerequisite:* Latin 1-2 or equivalent. *3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**DRAFTING****1a-1b ENGINEERING DRAWING**

Use and maintenance of drawing materials and instruments; the reading of drawings; lettering, dimensioning, tracing, and orthographic projection including auxiliary projections, sections, pictorial representation, detail, assembly, and construction drawings.

*1 lecture and 2 laboratory hours; 1½ credits each semester.*

**(2 DESCRIPTIVE GEOMETRY)**

*Prerequisite:* Drafting 1a-1b. *3 credits.*

**ECONOMICS**

A student majoring in Economics must take Economics 1, 12, 13, 14, 45, 46, and an additional 12 credits in Economics; also any two of the following: (1) History 2 or 36 (2) Political Science 1 (3) Sociology 1.

**1 ECONOMIC PRINCIPLES AND POLICIES**

The economic structure of modern society; business organization and financing; production; marketing and consumption; division of labor; wages; profit; the elementary problems of money and banking. *3 credits.*

**12 CURRENT ECONOMIC PROBLEMS**

Contemporary problems in the United States: public finance, public utilities, business cycles, international trade, labor problems, and the economic philosophies of communism, socialism, and fascism.

*Prerequisite:* Economics 1.

*3 credits.*

**13; 14 HISTORY OF ECONOMIC THOUGHT**

The logical and sociological components in the evolution of economic thought. First semester: from medieval times to the middle of the 19th century, with special attention to the English Classical Doctrine and divergent schools of thought; second semester: contemporary economic thought in America and abroad, with emphasis on the Utility School, Neo-Classicism, and Keynes, Schumpeter, Hayek, and von Mises.

*Prerequisite:* Economics 12.

*3 credits each semester.*

**16 HISTORY OF EUROPEAN CAPITALISM**

The origin and development of capitalism as a framework of social organization; interpretation of the evolution of capitalism; articulation of history and theory.

*Prerequisite:* Economics 1.

*3 credits.*

**21 DEMOGRAPHY**

For the description of this course, see Sociology 21.

*3 credits.*

**22 INDUSTRIAL RELATIONS**

For the description of this course, see Sociology 22.

*3 credits.*

**25 CORPORATION FINANCE**

Principles and practices in organizing and operating a successful business enterprise, with emphasis on the problems of small and medium-size business units: sources of capital, banking and credit accommodations, market for securities, financial statements and reports, combinations, bankruptcy reorganizations, social problems of corporate finance.

*Prerequisite:* Economics 1.

*3 credits.*

**26 PUBLIC FINANCE**

Principles of public finance; the income tax on individuals, corporations, and partnerships; constructing and presenting a budget; the management of public debt and economic stabilization policy; current economic thought on taxation and public debt.

*Prerequisite:* Economics 1.

*3 credits.*

**27 ECONOMIC HISTORY OF THE UNITED STATES**

American economic institutions and attitudes, with emphasis on the factors responsible for the growth of the American economy and for conflicts between economic groups.

*Prerequisite:* Economics 1.

*3 credits.*

**29 MONEY AND BANKING**

The nature of money; the organization and functioning of the commercial banking system, the Federal Reserve system, and other monetary institutions; the relation of public policy and economic activity to money and credit.

*Prerequisite:* Economics 1.

*3 credits.*

**32 ECONOMIC ANALYSIS**

The tools of economic analysis; the means for measuring prices, level of employment, output, and income; an appraisal and evaluation of analytical procedures.

*Prerequisite:* Economics 1.

*3 credits.*

**35 COMPARATIVE ECONOMIC SYSTEMS**

The price system, central planning, and the economic problems of the United States, Great Britain, the Soviet Union and underdeveloped countries; their economic organizations compared with abstract conceptions of capitalism, socialism, and communism.

*Prerequisite:* Economics 1.

*3 credits.*

**36 THE ECONOMICS OF THE MIDDLE EAST**

*Prerequisite:* Economics 1.

*3 credits.*

**45, 46 STATISTICAL METHODS**

For the description of this course, see Sociology 45, 46.

*3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

## EDUCATION\*

A student majoring in Psychology-Education is required to take 30 credits in Psychology and Education, of which at least 12 credits must fall in each of the two component fields. The following courses are required: Psychology 1, 13, 16, 36 and either 35 (for prospective elementary school teachers) or 38 (for prospective junior or senior high school teachers); and Education 11, 12, 21, 51-52 and either 32 (for prospective junior or senior high school teachers) or 25 (for prospective elementary school teachers).

## 11, 12 HISTORY AND PHILOSOPHY OF EDUCATION

The backgrounds of education from ancient times to the present, and the major philosophies underlying educational theory and practices; the implications for modern principles and procedures.

*Prerequisite:* History 1; 2 or upper sophomore status.

*2 credits each semester.*

## 16 PSYCHOLOGY OF LEARNING

For the description of this course, see Psychology 16.

## 21 PRINCIPLES AND PROBLEMS OF EDUCATION

Current educational trends and practices; an evaluation of them in terms of their psychological soundness and their success in meeting the needs of children in a democratic society; the role of the school in the modern community.

*Prerequisite or corequisite:* Education 16.

*3 credits.*

## 25 METHODS AND MATERIALS IN CHILDHOOD EDUCATION

General introduction to teaching elementary school children. Curriculum, methods, use of materials, general problems.

*2 credits.*

*Prerequisite:* Education 21.

## 32 PROBLEMS AND METHODS IN SECONDARY EDUCATION

The aims and objectives of secondary education and the principles and methods of teaching in secondary schools; the psychology of adolescence and its implications for the teacher.

*Prerequisite:* Education 21.

*2 credits.*

## 51-52 AUDIO-VISUAL EDUCATION

Special methods and materials of visual and auditory techniques in the learning process; laboratory experience with both visual and auditory equipment.

*Prerequisite:* permission of the instructor.

*3 hours; 2 credits each semester.*

\* Properly qualified upperclassmen may receive permission to take additional courses in the University's Graduate School of Education.

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**ENGLISH**

A student majoring in English is required to take 24 credits in English, not including English 1-2; also History 1;2 and Philosophy 9-10.

**A ELEMENTARY COMPOSITION AND RHETORIC**

Intended for those students who do not meet the requirements for admission to English 1; emphasis placed on the acquisition of sufficient knowledge of mechanics and idiom to pursue English 1-2 successfully.

*2 hours; no credit.*

**C REMEDIAL WRITTEN ENGLISH**

Prescribed for those students who do not meet the standards in mechanics required in English 1-2; the student's difficulties are analyzed and a program of work fitted to his individual needs. Satisfactory completion of this course is a prerequisite for graduation.

*Individual conferences; no credit.*

**1-2 COMPOSITION AND RHETORIC**

Training in the correct and effective use of English; work directed toward the development of the student's powers of observation, reflection, and coordination, as well as his command of formal correctness; frequent themes emphasizing the elements of composition.

*3 hours and conferences; 3 credits each semester.*

**3-4 SURVEY OF ENGLISH LITERATURE**

The history of English literature from its beginnings through the 19th century, accompanied by a study of masterpieces illustrating the various literary periods.

*Prerequisite: English 1-2.*

*3 credits each semester.*

**11; 12 SHAKESPEARE**

First semester: histories and comedies; second semester: the tragedies; supplementary reading among his contemporaries.

*Prerequisite: English 3-4.*

*2 credits each semester.*

**15; 16 ENGLISH LITERATURE IN THE 17th CENTURY**

Men of letters and the main trends of English literature from the accession of James I to the accession of Queen Anne; literary works and trends viewed against the social, political, and intellectual background of the century.

*Prerequisite: English 3-4.*

*3 credits each semester.*

## 17; 18 ENGLISH LITERATURE IN THE 18th CENTURY

The philosophy, poetry, prose, and novel in the Age of Pope and the Age of Johnson.

*Prerequisite:* English 3-4. *3 credits each semester.*

## 19; 20 ROMANTIC POETRY

First semester: Wordsworth, Coleridge, and Keats; second semester: Byron and Shelley.

*Prerequisite:* English 3-4. *3 credits each semester.*

## 21; 22 VICTORIAN POETRY

First semester: Tennyson; second semester: Browning.

*Prerequisite:* English 3-4. *2 credits each semester.*

## 23, 24 CONTEMPORARY LITERATURE

The literature of the 20th century, with emphasis upon the more conspicuous literary schools and styles.

*Prerequisite:* English 3-4. *2 credits each semester.*

## 25, 26 AMERICAN LITERATURE

The development of American literature from its origins to 1900.

*Prerequisite:* English 3-4. *3 credits each semester.*

## 29; 30; 31; 32 WORLD LITERATURE

A survey, through selected great works which survive translation, of the developing literary tradition of East and West. The first two semesters: the literature of the Orient and Western Europe; the second two semesters: the literature of Northern and Eastern Europe.

*Prerequisite:* English 1-2. *3 credits each semester.*

## 35, 36 CHAUCER

Chaucer's chief works—*The Canterbury Tales* and *Troilus and Criseyde*—with emphasis upon them as literary rather than linguistic texts.

*Prerequisite:* English 3-4. *2 credits each semester.*

## 37 THE ART OF POETRY

The intentions and techniques of poetry through the intensive examination of selected poems.

*Prerequisite:* English 3-4 and permission of the instructor. *3 credits.*

## 38 THE ART OF DRAMA

The intentions and techniques of drama through the intensive examination of selected American, English, and continental plays.

*Prerequisite:* English 3-4 and permission of the instructor. *3 credits.*

**41, 42 OLD ENGLISH**

Old English grammar and the reading of some of the simpler prose and poetry, including passages from *Beowulf*.

*Prerequisite:* English 3-4.

*2 credits each semester.*

**43, 44 HISTORY OF THE ENGLISH LANGUAGE**

A survey of the emergence of modern English after a study of some of the more common phenomena of Old and Middle English; knowledge of Old English and Chaucer helpful, though not essential, as background.

*Prerequisite:* English 3-4.

*2 credits each semester.*

**46 ADVANCED NARRATION**

The writing of original short stories, with emphasis upon class and individual criticism of the student's work.

*Prerequisite:* English 1-2.

*2 credits.*

**47 ADVANCED EXPOSITION**

Practice in expression, putting the student's power at the service of professional need or creative inclination; some consideration of technical elements and points of style, with discussion adapted to the student's needs.

*Prerequisite:* English 1-2.

*2 credits.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**(149 ASPECTS OF ADVANCED RHETORIC)**

General approach to the professional use of English; seminar discussion of classics of thought and style, and of illuminating contemporary books; writing assignments critically analyzed; primarily preparatory for English 150 but not restricted for enrollment; conferences.

*Prerequisite:* English 1-2, 3-4, and senior status.

*3 credits.*

**(150 WORKSHOP IN ADVANCED RHETORIC)**

Intensive writing course intended to form a professional English style; limited to practicing rabbis and graduate students who expect to becoming practicing rabbis; outstanding seniors admitted by special permission of the instructor; heavy writing assignments exhaustively analyzed; conferences.

*Prerequisite:* English 149.

*3 credits.*



## FRENCH

A student majoring in French is required to take 24 credits in French, not including French 01-02; also such additional courses, not exceeding 15 credits, as may be prescribed by the instructor for the individual student.

## 01-02 ELEMENTARY COURSE

Essentials of grammar, elementary reading, and translation; designed particularly for students with no high school work in French who wish to acquire a reading knowledge of the language. *3 credits each semester.*

## 1-2 INTERMEDIATE COURSE

Intensive review of grammar; selected readings; exercises in composition and conversation.

*Prerequisite:* 2 years of high school French or French 02. Students with 3 years of high school French will enter French 2 with permission of the instructor. *3 credits each semester.*

## 3-4 SURVEY OF FRENCH LITERATURE

The history of French literature from the medieval period to the present, with readings in the prose, poetry, and drama of the various periods. Conducted entirely in French.

*Prerequisite:* French 2. *3 credits each semester.*

## 11, 12 CONTEMPORARY FRENCH LITERATURE

First semester: Baudelaire, Verlaine, Mallarmé, Rimbaud, Bourget, France, Barres, Rolland, Gide, and Proust; second semester: the most important novels, plays, poems, and essays revealing principal tendencies since 1918; readings in the authors discussed, with reports based upon supplementary reading. Conducted entirely in French.

*Prerequisite:* French 4 or permission of the instructor. *3 credits each semester.*

## 13 MODERN DRAMA

The drama of the Romantic, Realistic, and contemporary periods; the reading of representative plays; lectures, reports, and discussions in French.

*Prerequisite:* French 4. *3 credits.*

## 14 THE MODERN NOVEL

The history of the novel with emphasis on the 19th century; the reading of several novels; lectures, reports, and discussions in French.

*Prerequisite:* French 4. *3 credits.*

**21 ADVANCED COMPOSITION**

Oral and written French, stressing contemporary practice; frequent exercises in translation, composition, and conversation; emphasis on the use of idioms and the appreciation of fine shades of meaning. Conducted entirely in French.

*Prerequisite:* French 4 or permission of the instructor. *3 credits.*

**23 HISTORY OF FRENCH CIVILIZATION**

The background of history, art, and institutions as an aid to the understanding of the principal movements of French literature.

*Prerequisite:* French 4. *2 credits.*

**26; 28; 29 STUDIES IN INDIVIDUAL AUTHORS AND THEIR WORKS**

26. Moliere                      28. Balzac                      29. France

*Prerequisite:* French 3-4. *2 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**GERMAN**

A student majoring in German is required to take 24 credits in German, not including German 01-02; also such additional courses, not exceeding 15 credits, as may be prescribed by the instructor for the individual student.

**01-02 ELEMENTARY COURSE**

Essentials of grammar, elementary reading, and translation; designed particularly for students with no high school work in German who wish to acquire a reading knowledge of the language. *3 credits each semester.*

**1-2 INTERMEDIATE COURSE**

Readings in classical German literature, poetry, and modern prose.

*Prerequisite:* 2 years of high school German or German 02. *3 credits each semester.*

**(3-4 SURVEY OF GERMAN LITERATURE)**

Readings of the masterpieces of German literature.

*Prerequisite:* German 1-2. *3 credits each semester.*

**7-8 INTRODUCTION TO SCIENTIFIC GERMAN**

Essentials of grammar, elementary reading in scientific German, and translation. For students majoring in the sciences who wish a working knowledge of German. Not open to students who have had any German in high school.

*3 credits each semester.*

**(11 CONTEMPORARY GERMAN LITERATURE)**

*Prerequisite:* German 2.

*3 credits.*

**(13 THE GERMAN NOVEL AND SHORT STORY OF THE 19th CENTURY)**

*Prerequisite:* German 2.

*3 credits.*

**(14 GERMAN LYRICS AND BALLADS)**

*Prerequisite:* German 2.

*3 credits.*

**(15; 16 GERMAN DRAMA)**

First semester: classic drama; second semester: 19th century.

*Prerequisite:* German 2.

*3 credits each semester.*

**(21, 22 ADVANCED COMPOSITION)**

*Prerequisite:* German 2.

*2 credits.*

**25 through 28 STUDIES IN INDIVIDUAL AUTHORS AND THEIR WORKS**

25. Heine

27. Goethe

26. Thomas Mann

28. Goethe's *Faust*

*Prerequisite:* German 2.

*2 or 3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**GREEK**

(See Classical Languages)

**HEBREW\***

A student majoring in Hebrew is required to take 24 credits in Hebrew in Yeshiva College or the Teachers Institute for Men, not including Hebrew 01-02, 03-04, and 1-2; also such additional courses, not exceeding 15 credits, as may be prescribed for the individual student.

A Hebrew major should consult his adviser regarding his choice of foreign language. A recommendation will be made in light of the period of Hebrew Literature in which the student is most interested.

**01-02 ELEMENTARY COURSE: FIRST YEAR**

Essentials of grammar, elementary readings and translation; designed for students who have had little or no Hebrew. *3 credits each semester.*

**03-04 ELEMENTARY COURSE: SECOND YEAR**

Grammar, selected readings, and translation.

*Prerequisite:* Hebrew 01-02 or two years of high school Hebrew.

*3 credits each semester.*

**1-2 INTERMEDIATE COURSE**

Intensive review of grammar; practice in composition and spoken Hebrew; readings from modern Hebrew literature.

*Prerequisite:* 4 years of high school Hebrew or Hebrew 04 or equivalent.

*3 credits each semester.*

**3-4 SURVEY OF MODERN HEBREW LITERATURE**

Modern Hebrew literature beginning with the movement for enlightenment and the national renaissance, accompanied by selected readings in the major Hebrew writers of modern times.

*Prerequisite:* Hebrew 1-2 or equivalent.

*3 credits each semester.*

**9, 10 POST-BIBLICAL AND MEDIEVAL LITERATURE**

Hebrew literature from the close of the Biblical period through the medieval period; selections from the Apocrypha, the early Paitanim, the medieval philosophical and secular literature, and the liturgical and secular poetry of the Golden Age in Spain; emphasis on Maimonides, Yehudah Halevi, and Ibn Gabirol.

*Prerequisite:* Hebrew 3-4 or equivalent.

*3 credits each semester.*

**11 MODERN HEBREW PROSE**

Emphasis on Mendele, Frishman, Peretz, J. Steinberg, Feirberg, Berditchevsky, Sh. Ben-Zion, Brenner, Schofmann, I. D. Berkovitz, Dvorah Baron.

*Prerequisite:* Hebrew 3-4 or equivalent.

*3 credits.*

\* Properly qualified upperclassmen may receive permission to take additional courses in the University's Bernard Revel Graduate School.

**12 MODERN HEBREW POETRY**

The major poems of Bialik, Tschernichowsky, Yaakov Cohen, and Shneur.

*Prerequisite:* Hebrew 3-4 or equivalent. *3 credits.*

**13 ADVANCED HEBREW GRAMMAR**

Hebrew syntax and grammar; the history of Hebrew grammar; varieties of construction and idioms.

*Prerequisite:* Hebrew 3-4 or equivalent. *3 credits.*

**14 ADVANCED HEBREW COMPOSITION**

Oral and written Hebrew, stressing contemporary usage; frequent exercises in composition and conversation, attention given to the needs of the particular student.

*Prerequisite:* Hebrew 3-4 or equivalent. *3 credits.*

**15 THE MODERN HEBREW ESSAY**

The modern Hebrew essay, with emphasis on the works of Krochmal, S. D. Luzatto, Smolenskin, Y. M. Pines, Ahad Ha'am, Zalman Epstein, Levinsky, Klatzkin, and Fishman.

*Prerequisite:* Hebrew 3-4 or equivalent. *3 credits.*

**17 CONTEMPORARY HEBREW PROSE**

The Hebrew short story and novel since the First World War; selected readings from the works of Kabak, Hameiri, Burla, Barash, Agnon, Shenberg, Hazaz, Yizhar, and others.

*Prerequisite:* Hebrew 3-4 or equivalent. *3 credits.*

**18 CONTEMPORARY HEBREW POETRY**

Hebrew poetry since the First World War; selected readings from the works of Shimoni, Shlonsky, Sh. Shalom, Lamdan, U. Z. Greenberg, and others.

*Prerequisite:* Hebrew 3-4 or equivalent. *3 credits.*

**21, 22 HISTORY OF HEBREW LITERATURE**

The major periods and movements in the last 2,000 years of Hebrew literature; extensive readings.

*Prerequisite:* Hebrew 3-4 and permission of the instructor.

*3 credits each semester.*

### 28 through 31 STUDIES IN INDIVIDUAL AUTHORS AND THEIR WORKS

28. Mendele

29. Bialik

30. Agnon

31. Ahad Ha'am

*Prerequisite:* Hebrew 3-4 or equivalent.

*2 credits each semester.*

### 37, 38 ARAMAIC

Grammatical structure of the Aramaic dialects: Biblical Aramaic—Daniel and Ezra; specimens of Aramaic papyri and the Targumim; the idiom of the Babylonian and Palestinian Talmuds. May be substituted for Bible 7;8.

*Open only to seniors at the Teachers Institute for Men or Yeshiva College.*

*Prerequisite:* Hebrew 3-4 in Yeshiva College or Hebrew 6a-b in Teachers Institute for Men.

*3 credits each semester.*

### 61 ADVANCED READING

For the description of this course, see page 31.

### 63 HONORS

For the description of this course, see page 31.

## JEWISH STUDIES PROGRAM

The following courses are offered in the Jewish Studies Program for credit in Yeshiva College:

### 01 through 08 HEBREW LANGUAGE AND LITERATURE I-IV

A comprehensive four-year sequence, providing the beginning student, in systematic, progressive stages, with a reading, writing, and speaking knowledge of Hebrew, with an introduction to the Bible and its Commentaries and to the basic texts of ancient and modern Hebrew literature, and with a knowledge of Jewish history, religious philosophy, and liturgy.

*4 credits each semester.*

## TEACHERS INSTITUTE FOR MEN

Up to a maximum of 32 credits in courses in Bible, Hebrew, and Jewish history may be transferred from the Teachers Institute for Men for credit in Yeshiva College. All Teachers Institute courses are 2 credits each a semester. For a description of these courses, see the catalog of the Teachers Institute for Men.

## HISTORY

A student majoring in History is required to take History 1;2 and 24 additional elective credits in History; also any two of the following: (1) Economics 1 (2) Philosophy 9-10 (3) Political Science 1 or 33 (4) Psychology 1 (5) Sociology 1. With special permission, substitutions may be allowed.

## 1; 2 HISTORY OF CIVILIZATION

First semester: an outline of the cultural and material development of mankind from the dawn of history to the year 1500; second semester: the evolution of the political, economic, social, and intellectual life of the world from the 16th century to the present. *3 credits each semester.*

## (1a FOUNDATIONS OF WESTERN CIVILIZATION)

A terminal course emphasizing the cultural and intellectual history of Greek, Roman, and medieval times. *3 credits.*

## 13; 14 HISTORY OF ECONOMIC THOUGHT

For the description of this course, see Economics 13;14.

*3 credits each semester.*

## 17 THE ANCIENT NEAR EAST

The civilization of Mesopotamia, Egypt, Asia Minor, and the Aegean.

*Prerequisite:* History 1;2.

*2 credits.*

## 18 GREEK CIVILIZATION

The major achievements of the Greeks in literature, art, science, philosophy, and politics until Alexander the Great.

*Prerequisite:* History 1;2.

*3 credits.*

## 18a HELLENISTIC CIVILIZATION

The political, social, and economic background; Hellenistic literature, art, philosophy, and religion; the synthesis of Hellenism and Judaism in Hellenistic Alexandria.

*Prerequisite:* History 1;2.

*3 credits.*



**19 ROMAN CIVILIZATION**

The major achievements of Rome in government, law, literature, and the arts.

*Prerequisite:* History 1;2.

*3 credits.*

**20 MEDIEVAL SOCIETY**

The process by which the Western Teuton and the Eastern Slav assimilated the culture of the Roman World and laid the social and political foundations for the modern world; emphasis placed on the institutions of France and England.

*Prerequisite:* History 1;2.

*3 credits.*

**21 THE RENAISSANCE AND REFORMATION**

European thought and culture in the age of transition from the 14th to the 17th centuries.

*Prerequisite:* History 1;2.

*3 credits.*

**(23 EUROPE IN THE 17th AND 18th CENTURIES)**

*Prerequisite:* History 1;2.

*2 credits.*

**(24 EUROPE FROM 1789 TO 1815)**

Europe in the age of the French Revolution and Napoleon.

*Prerequisite:* History 1;2.

*2 credits.*

**25; 26 MODERN EUROPE SINCE 1848**

The transformation in the social, intellectual, industrial, and political life of modern Europe, with emphasis on the forces of nationalism, industrialism, imperialism, and democracy. First semester: from the period following the Napoleonic Empire to the First World War; second semester: the transition since 1914 from the European to the World Theater.

*Prerequisite:* History 2.

*3 credits each semester.*

**29; 30 ENGLISH POLITICAL AND CONSTITUTIONAL HISTORY**

The political, governmental, and legal history of England from the Anglo-Saxon period to the present. First semester: to 1603; second semester: from 1603 to the present. Recommended for students planning to study law.

*Prerequisite:* History 1;2 or Political Science 1.

*3 credits each semester.*

**(31; 32 THE UNITED STATES: COLONIAL PERIOD AND REVOLUTION)**

*2 credits each semester.*

**35; 36 SURVEY OF UNITED STATES HISTORY**

The aspects of American history that have contributed to the shaping of American culture; an evaluation of political, social and economic trends in the light of changing ideals. First semester: colonial times to 1865; second semester: 1865 to the present.

*3 credits each semester.*

**37, 38 SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES**

Social and intellectual currents from the American Revolution to the present.

*Prerequisite:* History 35;36 or permission of the instructor.

*3 credits each semester.*

**39 HISTORY OF AMERICAN DIPLOMACY**

For the description of this course, see Political Science 13.

*3 credits.*

**41; 42 INTELLECTUAL HISTORY OF WESTERN EUROPE**

The development of the great ideas—political, social, economic, scientific, philosophical and religious—of Western European civilization from Augustine to the present.

*Prerequisite:* History 1;2.

*3 credits each semester.*

**(44 HISTORY OF ROMAN LAW)**

The external history of Roman law from its origin to the present day in its relations to the general history of the European peoples; an introduction to the legal foundations of Western European society. Recommended for students planning to study law.

*Prerequisite:* History 1 or 2.

*3 credits.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**71-72 SURVEY OF JEWISH HISTORY**

Jewish history from the Second Commonwealth to modern times.

*3 credits each semester.*

**(73-74 ANCIENT JEWISH HISTORY)**

*Prerequisite:* History 71-72.

*2 credits each semester.*

**(75-76 MEDIEVAL JEWISH HISTORY)**

*Prerequisite:* History 71-72.

*2 credits each semester.*

**(77-78 MODERN JEWISH HISTORY)**

*Prerequisite:* History 71-72.

*2 credits each semester.*

**79; 80 AMERICAN JEWISH HISTORY**

The Jews in the United States from the earliest times to the present, with emphasis upon social, cultural, and communal development, especially that of the Jewish community of New York. First semester: colonial times to the Civil War; second semester: the Civil War to the present.

*2 credits each semester.*

**HYGIENE****1-2 PERSONAL AND COMMUNITY HYGIENE**

The principles of personal and community health and hygiene, and their applications to the individual and the various social units.

*1 credit each semester.*

**LATIN**

(See Classical Languages)

**LIBRARY****1 LIBRARY TECHNIQUES**

Library resources and research methods. Open only to juniors and seniors.

*2 hours; one credit.*

**MATHEMATICS\***

A student majoring in Mathematics is required to take 27 credits in Mathematics, not including Mathematics 01-02; also such additional courses, not exceeding 15 credits, as may be prescribed by the instructor for the individual student. The science required shall be Physics 1-2 unless another is allowed by the instructor. Physics 11, 12 is also recommended.

Written permission is required to register for any course above 12.

**(01-02 SURVEY OF MATHEMATICS)**

*3 credits each semester.*

**1-2 MATHEMATICAL ANALYSIS**

The principles of advanced algebra, analytical geometry, and differential calculus, with an emphasis on the relationships of mathematics to the other sciences.

*3 credits each semester.*

**3-4 MATHEMATICAL ANALYSIS AND CALCULUS**

This course, covering the contents of Mathematics 1-2 and 11, 12 in one year, is designed for students with superior preparation and ability.

*Prerequisite:* 4 years of high school mathematics or permission of the instructor.

*4 credits each semester.*

**11, 12 CALCULUS**

Differentials; Taylor and Maclaurin expansions; convergence and divergence of series; summation of series; technique of integration; definite integral; fundamental theorem of integral calculus; application of integration to problems in physics and geometry; polar coordinates; parametric equations; indeterminate forms; introduction to differential equations.

*Prerequisite:* Mathematics 1-2.

*3 credits each semester.*

**13, 14 DIFFERENTIAL EQUATIONS**

First semester: ordinary differential equations, with applications to problems in physics and geometry; second semester: equations in more than two variables; introduction to partial differential equations; special problems.

*Prerequisite:* Mathematics 11, 12.

*3 credits each semester.*

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\* Properly qualified upperclassmen may receive permission to take additional courses in the University's Graduate School of Mathematical Sciences.

**15, 16 THEORY OF NUMBERS**

The properties of integers and the methods of algebra and calculus available in their study.

*Prerequisite:* Mathematics 1-2.

*3 credits each semester.*

**17, 18 PROJECTIVE GEOMETRY**

The principle of duality; harmonic ratios; homologous configurations and the application of their properties to curves of second order and class.

*Prerequisite:* Mathematics 11.

*3 credits each semester.*

**19, 20 THEORY OF EQUATIONS**

Properties of polynomials; graphic representation; maximum and minimum values; roots of equations, real and imaginary; rule of signs; limits of roots; roots and coefficients; symmetric functions of the roots; transformation of equations; solutions of equations; determinants.

*Prerequisite:* Mathematics 1-2.

*3 credits each semester.*

**21-22 HISTORY OF MATHEMATICS**

The development of mathematics from antiquity to the present.

*Prerequisite:* Mathematics 1-2.

*3 credits each semester.*

**23-24 ADVANCED CALCULUS**

Review of the fundamental rules; theorems on limits and sets of points; summation and integration; Taylor's Formula and allied topics; partial differentiation; functional determinants; envelopes of curves and surfaces; functions of a complex variable; vectors, sums and products; curvilinear or line integrals; the Gamma and Beta functions; infinite series.

*Prerequisite:* Mathematics 11, 12.

*3 credits each semester.*

**25, 26 RECREATIONAL MATHEMATICS**

Mathematics as a source of pleasure; the role played by recreational problems in the development of mathematics; Zeno's paradoxes; number pleasures in ancient literature; magic squares and cubes; short cuts in mathematical operations; mathematics in nature; art and mathematics; mathematical games, puzzles and fallacies; the use of recreational mathematics in teaching.

*Prerequisite:* Mathematics 1-2.

*2 credits each semester.*

**27, 28 THEORY OF FUNCTIONS**

Functions of the complex variable, with geometric and physical applications.

*Prerequisite:* Mathematics 11, 12.

*3 credits each semester.*

**29-30 MODERN ALGEBRA**

An introduction to abstract mathematics for the student unacquainted with abstract methods and presentations. Congruences and number systems mod (n); Boolean algebra; group theory; matrix theory and applications; fields, rings, and ideals.

*Prerequisite:* Mathematics 4 or 12.

*2 credits each semester.*

**31, 32 ACTUARIAL MATHEMATICS**

Summation by finite differences; a review of related topics in advanced algebra and calculus; choice and chance; elementary theorems in probability and statistics.

*Prerequisite:* Mathematics 1-2.

*2 credits each semester.*

**35-36 VECTOR ANALYSIS**

Graphical representation of vectors; elementary operations; vector equations; scalar and vector fields and products; differentiation and integration of vector functions; differential operators; practical applications.

*Prerequisite:* Mathematics 11, 12.

*2 credits each semester.*

**37, 38 MATHEMATICAL STATISTICS**

*Prerequisite:* Mathematics 11, 12.

*3 credits each semester.*

**39, 40 PROBABILITY**

*Prerequisite:* Mathematics 11, 12.

*2 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**MUSIC****1 INTRODUCTION TO MUSIC**

Music for appreciation and the development of insight into the art, requiring no previous knowledge; the cultivation of helpful listening habits, with extensive use of recordings.

*2 hours; 1 credit.*

**3; 4; 5; 6 CHORAL MUSIC**

Songs of various styles, primarily for occasions of the Jewish year; the elements of group leading; some vocal experience desirable but not required. Students may register for any four semesters in any order.

*2 hours; 1 credit each semester.*

**7, 8 ELEMENTARY MUSICIANSHIP**

Reading, sight singing, writing and playing simple melodies, rhythms, and harmonies on the piano; some musical experience desirable but not required.

*2 credits each semester.*

**9, 10 HARMONY**

The structural forces in music, predominantly harmony, taught on the basis of ear training, and the development of creativeness through writing and arranging music of various settings.

*Prerequisite:* Music 7, 8.

*2 credits each semester.*

**11 MUSIC FROM ANTIQUITY TO THE RENAISSANCE**

The formative years of Western music, including Greek, Hebrew, and Christian contributions; the emergence of secular music in the Middle Ages; the rise of the Italian and Flemish schools of the 14th and 15th centuries.

*Prerequisite:* Music 1 or permission of the instructor.

*2 credits.*

**12 MUSIC IN THE BAROQUE AND CLASSICAL ERAS**

Music and musical practices in the 17th and 18th centuries, centering around the major vocal and instrumental forms: opera, oratorio, suite, fugue, concerto grosso; emphasis on the works of Bach, Handel, Scarlatti, Monteverdi, Haydn, and Mozart.

*Prerequisite:* Music 1 or permission of the instructor.

*2 credits.*

**13 MUSIC IN THE ROMANTIC ERA**

The rise of symphonic thought with the unfolding of the symphony, symphonic poem, music drama, concerto; emphasis on the works of Beethoven, Schubert, Berlioz, Mendelssohn, Schumann, Tchaikovsky, Liszt, Wagner, and Brahms.

*Prerequisite:* Music 1 or permission of the instructor.

*2 credits.*

**14 MUSIC IN THE 20th CENTURY**

The avenues of musical development from the close of the 19th century to the present day; the relation of musical ideas to similar thought in literature, poetry and painting; emphasis on the works of Wagner, Mahler, Richard Strauss, Sibelius, Ravel, Debussy, Schonberg, Berg, Hindemith, Shostakovitch, Prokofiev.

*Prerequisite:* Music 1 or permission of the instructor.

*2 credits.*

**15 SURVEY OF OPERATIC LITERATURE**

A detailed consideration of such works as Mozart's "Don Giovanni," Beethoven's "Fidelio," von Weber's "Der Freischutz," Rossini's "Barber of Seville," Verdi's "La Traviata" and "Aida," Wagner's "Tristan" and "Die Meistersinger," Puccini's "La Boheme," Bizet's "Carmen."

*Prerequisite:* Music 1 or permission of the instructor.

*2 credits.*



**19, 20 VOICE CULTURE**

The elements of voice training for singing and speaking; breath control and tone production; vocal physiology and hygiene; general instruction combined with individual attention.

*Prerequisite:* permission of the instructor. *2 credits each semester.*

**ORIENTATION****A FRESHMAN ORIENTATION**

Tours, demonstrations, lectures, and conference groups, at which typical freshman problems are considered; individual interviews to establish more precise assistance. *1 hour; no credit.*

**PHILOSOPHY**

A student majoring in Philosophy is required to take Philosophy 9-10, 11, 12, 21, 31; also Psychology 1, Mathematics 1-2, and either Physics 1-2 or Chemistry 1-2 or 1a-2a. The following are also recommended: History 1;2, Political Science 27;28 and Sociology 1.

**9-10 ANCIENT AND MEDIEVAL PHILOSOPHY**

The most significant types of thought from Thales to Francis Bacon; emphasis placed upon Plato, Aristotle, Augustine, and Aquinas.

*3 credits each semester.*

**11 MODERN PHILOSOPHY**

The main philosophical movements from Bacon through Spencer; idealism, positivism, Darwinian naturalism.

*Prerequisite:* Philosophy 9-10. *3 credits.*

**12 CONTEMPORARY PHILOSOPHY**

The chief contribution of Bergson, James, Dewey, Russell, Santayana, and Whitehead.

*Prerequisite:* Philosophy 11. *3 credits.*

**21 LOGIC AND SCIENTIFIC METHOD**

A careful study of inductive and deductive logic. *3 credits.*

**23; 24 PHILOSOPHY OF SCIENCE**

A critical and historical analysis of the basic concepts of science and their metaphysical implications. *2 credits each semester.*

**31 POLITICAL AND SOCIAL PHILOSOPHY**

Political and social theories from Aristotle to the present day; analysis of the various interpretations of history, the nature of man, the relation of ethics to politics, and the historical functions of the state.

*Prerequisite:* Philosophy 9-10, 11, 21.

*3 credits.*

**(53; 54 GENERAL ETHICS)**

*3 credits each semester.*

**(55; 56 SOCIAL ETHICS)**

*3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**71; 72 INTRODUCTION TO JEWISH PHILOSOPHY**

Exposition and discussion of Jewish ethical ideals; the relation of man to God, and of man to man; the distinctive ideals of Judaism.

*1 credit each semester.*

**73, 74 PROBLEMS OF PHILOSOPHY**

Selected philosophical topics, as approached by different schools; analysis and discussion of representative selections from general and Jewish sources.

*Prerequisite:* senior status or permission of the instructor.

*2 credits each semester.*

**(75; 76; 77; 78 STUDIES IN JEWISH ETHICS AND PHILOSOPHY)**

*Prerequisite or corequisite:* Philosophy 71;72.

*2 credits each semester.*

**PHYSICAL EDUCATION**

A course in physical education is required every semester of attendance at Yeshiva College. Students with physical defects and handicaps will not be excused from Physical Education, but will be assigned to special classes with the approval of the Medical Director. No student may take more than one course in this subject any semester, nor more than a total of 8 credits. Students have their choice of the activities listed below.

**1 to 8 PHYSICAL TRAINING**

*2 hours; 1/2 credit each semester.*

**A. First Aid**

Instruction and Red Cross certification in First Aid techniques and practices.

- B. Corrective Physical Education  
Individual corrective exercises and adapted activities; approval of University Medical Director required.
- C. Physical Fitness  
Increased physical efficiency through the use of graded exercises and activities.
- D. Swimming and Water Safety  
Beginning, intermediate, and advanced swimming instructions; Red Cross certification available; the passing of beginner's swimming test required for graduation.
- E. Individual Athletics  
Instruction and practice in individual sports.
- F. Seasonal Sports  
Instruction and practice in team sports.
- G. Combatives  
Instruction and practice in self-defense techniques involved in boxing, wrestling, jujitsu, and hand-to-hand combat.
- H. Athletic Officiating  
Instruction and practice in the art of officiating in major team sports for the college, high school, community center, and camp.
- I. Weight Lifting  
Use of heavy resistive exercise for body building.
- J. Fencing  
Instruction and practice in techniques for beginning, intermediate, and advanced students.
- K. Leadership in Physical Education  
The development of leadership techniques in physical education activities.

## 11 to 18 RECREATIONAL LEADERSHIP

Theory and practice in the organization and direction of recreational activities for use in educational institutions, recreation centers, camps, and community centers; instructor's courses in First Aid and Swimming.

*1 lecture and 1 or 2 laboratory hours; 1 or 2 credits each semester.*

**PHYSICS**

A student majoring in Physics is required to take 26 credits in Physics, including at least two of the following courses: 13L, 14L, 17L, 18L, and 24L. He must also take Mathematics 1-2 and 11, 12 (or 3-4), and Chemistry 1-2 or 1a-2a if he has not taken a one-year course in Chemistry in high school. Students contemplating graduate work in Physics should take as many of the following courses as possible: Mathematics 13, 14, 23-24, 35-36, and Chemistry 1-2.

**1-2 GENERAL PHYSICS**

The general principles of statics, kinematics, hydrostatics, heat, sound, light, electricity, and magnetism, with emphasis on laboratory work designed to help the student acquire mastery of these principles.

*Prerequisite or corequisite:* Mathematics 1-2 or 3-4.  
*3 hours; 3 laboratory hours; 4 credits each semester.*

**11, 12 ANALYTICAL MECHANICS**

Statics: composition of forces; equilibrium of a particle and of rigid bodies; centroids, cables, frames, etc. Kinematics: Cartesian, radial and transversal, tangential and normal components of velocity and acceleration. Dynamics: Newtonian laws of motion; work and energy; motion of particle in a resisting medium; simple harmonic motion; free and forced vibration of damped linear oscillator; planetary motion and related topics; motion of translation and rotation of rigid bodies.

*Prerequisite:* Physics 1-2, Mathematics 11, 12.  
*3 credits each semester.*

**11a, 12a MECHANICS FOR ENGINEERS**

Analytical mechanics, with added material designed specifically for pre-engineering students.

*Prerequisite:* Physics 1-2, Mathematics 11, 12.  
*4 credits each semester.*

**13, 14 ELECTRICITY AND MAGNETISM**

Electrostatics and magnetostatics, with emphasis on methods of solution (electrical images, inversion, conjugate functions); direct currents, study of D.C. generators and motors; flow of alternating currents in circuits containing resistance, inductance, and capacity; electrical resonance; study of AC generators and motors; electrical measurements; motion of electrons in electric and magnetic fields; electromagnetic waves and related topics.

*Prerequisite:* Physics 1-2.  
*3 credits each semester.*

**13L, 14L EXPERIMENTAL ELECTRICITY AND MAGNETISM**

Experiments in electrical measurements, thermoelectric and photoelectric effects, resonant circuits, characteristics of vacuum tubes, and applications; AC and DC bridges and magnetic measurements.

*Prerequisite:* Physics 1-2.

*4 hours; 2 credits.*

**15 ELEMENTS OF KINETIC THEORY AND THERMODYNAMICS**

The principles of the kinetic theory of matter (particularly gases); first and second laws of thermodynamics; the concept of entropy and related topics.

*Prerequisite:* Physics 1-2, Mathematics 11, 12.

*3 credits.*

**17 LIGHT**

Principles of geometric and physical optics; Huygen's principle; reflection, refraction, dispersion, interference, diffraction and polarization of light; mag-neto-optics; electro-optics; optical instruments.

*Prerequisite:* Physics 1-2, Mathematics 11, 12.

*3 credits.*

**17L EXPERIMENTAL OPTICS**

Elementary experiments in photometry, interference, diffraction, polarization, spectroscopy; index of refraction, wave length, velocity of light.

*Prerequisite:* Physics 1-2.

*4 hours; 2 credits.*

**18 SOUND**

Theory of vibrations, with application to the study of vibrations of strings, reeds, diaphragms, and pipes; Doppler effect, reflection, interference, and diffraction of sound waves; sound instruments.

*Prerequisite:* Physics 1-2, 11, 12; Mathematics 11, 12.

*3 credits.*

**18L LABORATORY COURSE IN ACOUSTICS**

Experiments on the propagation of sound waves in solids, liquids, and gases; vibrating strings, plates, and bars; measurement of velocity, frequency, and wave length; interference, resonance in open and closed air columns; absorption of sound.

*Prerequisite:* Physics 1-2.

*4 hours; 2 credits.*

**19-20 REVIEW OF MODERN PHYSICS**

An elementary exposition of the electron theory, cathode rays, X-rays, radioactivity, atomic energy, quantum theory, and the theory of relativity.

*Prerequisite:* Physics 1-2.

*3 credits each semester.*

**24 ELECTRONICS**

Thermionic tubes and their use as detectors, amplifiers, oscillators, and electrometers; photoelectricity, cathode rays; excitation and ionization of gases by electrons and gas discharge phenomena.

*Prerequisite:* Physics 1-2, Mathematics 11, 12. 2 credits.

**24L LABORATORY COURSE IN ELECTRONICS**

*Prerequisite or corequisite:* Physics 24. 2 hours; 1 credit.

**25 INTRODUCTION TO THEORETICAL PHYSICS**

Typical initial and boundary value problems in electrostatics, heat conduction, wave motion, and electric circuit theory.

*Prerequisite:* Physics 11, 12, Mathematics 11, 12.

*Prerequisite or corequisite:* Physics 13, 14, Mathematics 13, 14.

3 credits.

**29 SELECTED TOPICS IN MECHANICS**

Lagrangian equations, motion with respect to rotating axes, the Foucault pendulum, motion of a top with applications, elements of hydrostatics and hydrodynamics.

*Prerequisite:* Physics 11, 12, Mathematics 11, 12.

*Prerequisite or corequisite:* Mathematics 35-36.

3 credits.

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**POLITICAL SCIENCE**

A student majoring in Political Science is required to take Political Science 1 and 27 additional credits in Political Science; also any two of the following: (1) Economics 1 (2) History 2 or 36 (3) Philosophy 9-10 (4) Psychology 1 (5) Sociology 1.

**1 AMERICAN GOVERNMENT**

The more important principles of political science and the evolution of government; theories of the state, law, and juridic institutions; American federal, state, and municipal government.

3 credits.

**13 HISTORY OF AMERICAN DIPLOMACY**

The history of the foreign policy of the United States from the French Alliance, 1775-1778, to the present; the conditions and forces that help fashion our diplomacy; special attention given to the rise of the United States as a world power with its consequent duties and opportunities.

3 credits.

**15 AMERICAN POLITICAL THOUGHT**

A history of American political thought from colonial times to the present.

*Prerequisite:* Political Science 1. *3 credits.*

**16 PROBLEMS IN POLITICAL SCIENCE**

Studies in depth of some theoretical and administrative problems in modern government.

*Prerequisite:* Political Science 1. *3 credits.*

**18 POLITICAL PARTIES**

The organization and activity of political parties, the operation of the party system, and the role of pressure groups in the United States; campaigns and elections.

*Prerequisite:* Political Science 1. *3 credits.*

**21; 22 CONSTITUTIONAL DEVELOPMENT OF THE UNITED STATES**

The Constitution of the United States, its inspiration, adoption, interpretation, and development.

*Prerequisite:* Political Science 1 or permission of the instructor. *3 credits.*

**25; 26 HISTORY OF POLITICAL THEORY**

The history of thought concerning the nature and role of the state from ancient times to the present. First semester: ancient times to Machiavelli, with special attention to theories of law and justice; second semester: Machiavelli to the present, with special attention to the influence of such thought on the establishment and development of American government.

*Prerequisite:* 1 year of Philosophy or Political Science. *2 credits each semester.*

**27; 28 JURISPRUDENCE**

First semester: significance of philosophy for the law; sources and authoritative forms of the law; analysis of concepts of property, contract, tort, and crime. Second semester: general theories of the law, e.g., the natural law, historical school, utilitarian and other theories, and the nature of the judicial process.

*Prerequisite:* 1 year of Philosophy or Political Science. *2 credits each semester.*

**29; 30 ENGLISH POLITICAL AND CONSTITUTIONAL HISTORY**

For the description of this course, see History 29;30.

*Prerequisite:* Political Science 1. *3 credits each semester.*



**32 COMPARATIVE GOVERNMENT**

A comparative study is made of the more important governments of Europe, including Great Britain, France, Italy, Switzerland, and Germany, with brief consideration of the governments that have developed since World War I, with the government of the United States used as a basis of comparison and contrast.

*Prerequisite:* Political Science 1.

*3 credits.*

**33 INTERNATIONAL RELATIONS**

International organizations and the factors contributing to the rise of international government; the United Nations and its functions.

*3 credits.*

**34 INTERNATIONAL LAW**

The nature, scope, sources, subjects, and objects of international law; the procedural Law of Intervention and the Law of World Organization.

*Prerequisite:* Political Science 1.

*3 credits.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**PSYCHOLOGY\***

A student majoring in Psychology is required to take Psychology 1 and 45, and an additional 18 credits in Psychology; also Mathematics 1-2. Students contemplating graduate work in Psychology should include Psychology 13, 19, 20, 39, and 46, and should take German or French as their required language.

Students are also advised to take as many of the following courses as possible: Physics 1-2, Biology 1-2, Philosophy 9-10, and either Mathematics 11, 12 (for students interested in experimental psychology) or Sociology 1 and 14 (for students interested in clinical psychology).

**1 GENERAL PSYCHOLOGY**

The essential facts and theories, aimed at giving the student a thorough grounding in the science and acquainting him with scientific method and the techniques used in psychology.

*3 credits.*

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\* Properly qualified upperclassmen may receive permission to take additional courses in the University's Graduate School of Education.

**13 TESTS AND MEASUREMENTS**

The theory and method of measuring human behavior; the construction and evaluation of tests of abilities, aptitudes, achievement, attitudes, and adjustment.

*Prerequisite:* Psychology 1 and 45. 3 credits.

**16 PSYCHOLOGY OF LEARNING**

An extension of the basic principles of learning, with emphasis on applications in education.

*Prerequisite:* Psychology 1. 3 credits.

**19, 20 EXPERIMENTAL PSYCHOLOGY**

The chief problems, methods and results of experimental psychology; representative experiments on animals and humans carried out and evaluated in the light of modern theory.

*A laboratory fee is charged.*

*Prerequisite or corequisite:* Psychology 1.  
*1 lecture and 3 laboratory hours; 3 credits each semester.*

**23 ABNORMAL PSYCHOLOGY**

Behavior disorders, with emphasis on experimental studies and their interpretations, diagnostic and therapeutic techniques, and mental hygiene.

*Prerequisite:* Psychology 1. 3 credits.

**28 SENSORY PSYCHOLOGY**

The senses and their fundamental role in the regulation of behavior; a systematic treatment of vision, audition, and the other senses, with some applications to human engineering.

*Prerequisite:* Psychology 1. 3 credits.

**31 SOCIAL PSYCHOLOGY**

The individual in the group; types and stratification; conflict and consent; group standards and attitude formation; public opinion and leadership; analysis of studies in social behavior.

*Prerequisite:* Psychology 1. 3 credits.

**32 PHYSIOLOGICAL PSYCHOLOGY**

Physical structure and behavior; mind and body; the nervous system and endocrine glands in their relations to psychological processes.

*Prerequisite:* Psychology 1. 3 credits.

**33 PSYCHOLOGY OF PERSONALITY**

The structure and dynamics of personality in the light of experimental evidence and theory.

*Prerequisite:* Psychology 1. 3 credits.

**34 COMPARATIVE PSYCHOLOGY**

The evolution of behavior: a comparative study of growth and development of behavior in animals.

*Prerequisite:* Psychology 1. 3 credits.

**35 CHILDHOOD DEVELOPMENT**

The biological, psychological, and social factors which enter into the development of the child; the correlations between childhood development and the formation of adult personality.

*Prerequisite:* Psychology 1.

*2 credits.*

**36 PSYCHOLOGY OF ADJUSTMENT**

The various psychological mechanisms used by individuals to resolve conflicts and to adjust to their situations, with illustrative case histories.

*Prerequisite:* Psychology 1.

*2 credits.*

**38 PSYCHOLOGY OF ADOLESCENCE AND YOUTH**

The processes and problems of becoming an adult; personality development in its relation to cultural patterns.

*Prerequisite:* Psychology 1.

*2 credits.*

**39 THEORIES AND SYSTEMS**

Current theories in psychology; the historical roots, development, and present status of systematic orientations; implications of recent experimental data on psychological theory.

*Prerequisite:* Psychology 1.

*3 credits.*

**45, 46 STATISTICAL METHODS**

For the description of this course, see Sociology 45, 46.

*3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**SOCIOLOGY**

A student majoring in Sociology is required to take Sociology 1 and 27 additional credits, including at least one course from each of the following groups: (1) 14 or 45 (2) 17, 18, 19, 20, 21, 22, or 26 (3) 23 or 24 (4) 31 or 32. In addition, two of the following must be taken: (1) Economics 1 (2) History 2 or 36 (3) Philosophy 21 or 9-10 (4) Political Science 1 (5) Psychology 1.

Students contemplating graduate work in Sociology should take German or French as their required language.

Students also are advised to take as many of the following courses as possible: Economics 13; 14; Philosophy 21, 31; Political Science 25; 26; Psychology 31, 33.

**1 INTRODUCTION TO SOCIOLOGY**

Group life and social relationships, especially in modern society; social processes, forces, and structures; the individual and society; collective behavior; socio-cultural continuity and change.

*3 credits.*

**(12a SOCIAL ORGANIZATION)**

*Prerequisite:* Sociology 1.

*3 credits.*

**(13 COMMUNITY ORGANIZATION)**

*Prerequisite:* Sociology 1.

*3 credits.*

**14 METHODS OF SOCIAL RESEARCH**

Logical foundations of the scientific method; development of concept and hypothesis; sampling techniques; research design; questionnaire; interview; personal documents; scaling techniques; the use of published and other sources of information; analysis and interpretation of data.

*Prerequisite:* Sociology 1.

*3 credits.*

**17 THE FAMILY**

Historical backgrounds and family types; changes in the functions of the family; marital adjustment and intrafamily relationships; broken homes; psychological and sociological significance of the family; the family and the development of personality; brief history of the American family.

*Prerequisite:* Sociology 1.

*3 credits.*

**18 CRIMINOLOGY**

Delinquent and criminal behavior in modern society; extent and patterns of such behavior; factors in criminality; treatment of criminals; prevention of crimes.

*Prerequisite:* Sociology 1.

*3 credits.*

**19 URBAN SOCIETY**

Rise and development of cities and metropolitan centers; trends in urbanization; types of cities; their ecological, demographic, ethnic, economic, social, and cultural characteristics; patterns of interaction and social relationships; personality types, social control; housing and city planning.

*Prerequisite:* Sociology 1.

*2 credits.*

**20 ETHNIC GROUPS IN THE UNITED STATES**

Ethnic and religious composition of the American population; adjustment of minority groups to the dominant culture; intergroup relations and tensions; economic, social, educational, and political opportunities of Negroes, Jews, and others; nature and cause of prejudice; public policies and proposed solutions of ethnic problems.

*Prerequisite:* Sociology 1.

*3 credits.*

**21 DEMOGRAPHY**

Population trends in relation to resources; changes in birth and death rates; span of life and morbidity; social and other causes and effects of these changes; immigration; population policies; population theories; collection, analysis, and interpretation of demographic data.

*Prerequisite:* Sociology 1.

*3 credits.*

**22 INDUSTRIAL SOCIOLOGY**

The Industrial Revolution and the labor movement; industrial bureaucracy, management and unions; the social structure of industry; industry and the community; social legislation.

*Prerequisite:* Sociology 1, Economics 1 or Political Science 1 or permission of the instructor.

*3 credits.*

**23, 24 SOCIOLOGICAL THEORIES**

Sociological theories before the 19th century and an analysis and evaluation of leading sociological schools and systems since Auguste Comte.

*Prerequisite:* Sociology 1.

*2 credits each semester.*

**26 PUBLIC OPINION**

Nature and function of public opinion; agencies forming and influencing opinion; role of media of communication; impact of public opinion upon public policy; change and control of public opinion in different societies; measurement and analysis of public opinion.

*Prerequisite:* Sociology 1.

*3 credits.*

**31 SOCIOLOGY OF THE JEWS**

The Jewish problem in Diaspora since the emancipation; the varieties of Jewish nationalism; the forerunners of Zionism; the history, structure, and parties of political Zionism; the religious philosophies of Traditional, Reform, and secular Judaism; the State of Israel and its impact upon Diaspora Judaism.

*2 credits.*

**32 THE JEWISH COMMUNITY IN THE UNITED STATES**

The Jewish community in the United States—its needs, agencies and problems; the agencies that deal with the educational, religious and philanthropic needs of the community.

*2 credits.*

**45, 46 STATISTICAL METHODS**

Fundamental statistical concepts and methods; measures of central tendency and variability; the normal probability curve and its applications; correlations and contingency; reliability and significance of differences; analysis of variance; index numbers; time series; collection, analysis, and interpretation of statistical data.

*3 credits each semester.*

**61 ADVANCED READING**

For the description of this course, see page 31.

**63 HONORS**

For the description of this course, see page 31.

**SPANISH****01-02 ELEMENTARY COURSE**

Essentials of grammar, elementary reading, and translation; designed particularly for students with no high school work in Spanish who wish to acquire a reading knowledge of the language.

*3 credits each semester.*

**1-2 INTERMEDIATE COURSE**

A rapid review of grammar; exercises in reading, writing, and speaking Spanish; short stories by contemporary Spanish writers and a masterpiece of modern Spanish literature to be read.

*Prerequisite:* 2 years of high school Spanish or Spanish 01-02.

*3 credits each semester.*

**3-4 SURVEY OF SPANISH LITERATURE**

The most important Spanish works of the 19th century; a survey of the culture of Latin America.

*Prerequisite:* Spanish 1-2.

*3 credits each semester.*

**SPEECH****C SPEECH CORRECTION**

Offered for those students who have special difficulties with particular speech sounds, voice inadequacies, foreign accent, or nervous disorders of speech.

*No credit.*

**1-2 FUNDAMENTALS OF SPEECH**

The development of an appreciation of precision and effectiveness in the spoken word; an understanding of the basic factors in the improvement of spoken English; the development of an acceptable and cultivated American speech pattern.

*1 credit each semester.*

**3 PUBLIC SPEAKING**

Experience in the preparation and presentation of speeches; the development of a versatile and vigorous speech style, enabling the student to offer well-reasoned and organized addresses appropriate to different occasions and audiences.

*Prerequisite:* Speech 1-2.

*2 credits.*

**4 GROUP DISCUSSION**

The prevailing practice and techniques of acting as chairman and participant in group discussions of various sorts, according to accepted rules and procedures, taught by experience in forums, panels, and debates.

*Prerequisite:* Speech 3. 2 credits.

**(13 SPEECH COMPOSITION)**

*Prerequisite:* Speech 4. 2 credits.

**14 PARLIAMENTARY PRACTICE**

Parliamentary procedure, with practice in the conduct of meetings.

*Prerequisite:* Speech 4. 2 credits.

**15 VOICE AND DICTION FOR FUTURE TEACHERS AND SPEAKERS**

Designed for those who desire to meet the standards in oral English set by boards of education and the public speaking platform. Drill work in voice, articulation, pronunciation, and diction.

*Prerequisite:* Speech 4. 2 credits.

**18 ADVANCED PUBLIC SPEAKING**

Practice in extemporaneous speaking, with emphasis on the improvement of vocal quality and the effectiveness of speech through the resources of the personality of the individual.

*Prerequisite:* Speech 4. 2 credits.

**SYRIAC**

Properly qualified upperclassmen may receive permission to take the following courses as electives in the University's Bernard Revel Graduate School:

**IV, 241R ELEMENTARY SYRIAC****IV, 244R ADVANCED SYRIAC**

*3 credits each semester.*

**YIDDISH****01-02 ELEMENTARY COURSE**

Essentials of grammar, elementary reading, and translation; pronunciation and conversational practice.

*3 credits each semester.*

**1-2 INTERMEDIATE COURSE**

Intensive review of grammar; selected readings; exercises in composition and conversation.

*Prerequisite:* Yiddish 01-02 or equivalent. 3 credits each semester.

## PRIZES AND HONORS

The following Commencement Prizes are granted annually to students selected by the College faculty:

BITZARON PRIZE—For excellence in Hebrew literature.

DANIEL BLOCK MEMORIAL PRIZE—For excellence in mathematics.

MUSHE COHEN MEMORIAL PRIZE—For excellence in Bible.

HARRY AND JANE FISCHEL MEMORIAL PRIZE—For excellence in American Jewish history.

EPHRAIM FLEISHER MEMORIAL PRIZE—For the best essay in English on a Hebrew prophet.

BENJAMIN FRANKLIN PRIZE—For excellence in physics.

JEKUTHIEL GINSBURG MEMORIAL PRIZE—For excellence in mathematics.

MENDEL AND SARAH GOTTESMAN MEMORIAL FUND PRIZE—For scholarship, ethics, and character.

JOSEPH GUNNER MEMORIAL PRIZE—For excellence in mathematics.

HISTADRUT IVRIT PRIZE—For excellence in Hebrew language and literature.

JEWISH ACADEMY OF ARTS AND SCIENCES PRIZE—To the graduate who ranks highest in his college studies.

CHARLES S. KOPPMAN MEMORIAL PRIZE—For excellence in economics.

SADIE AND ARTHUR LAMPORT MEMORIAL PRIZE—For excellence in Jewish ethics.

BENJAMIN LEBZELTER MEMORIAL PRIZE—For excellence in Bible.

SAMUEL AND EMILY GRANET LEMLER PRIZE—For excellence in premedical studies.

ELI M. LEVINE PRIZE—For excellence in chemistry.

MANISCHEWITZ PRIZE—For excellence in philosophy.

MUTUAL BENEVOLENT SOCIETY OF 1865, INC. PRIZE—For excellence in biology.

YA'AKOV YEHUDA NIRENSTEIN PRIZE—For excellence in Hebrew.

GERTRUDE NISSENBAUM MEMORIAL PRIZE—For excellence in mathematics.

EMILE OFFENBACHER PRIZE—For excellence in physical education.

NORMAN PALEFSKI MEMORIAL PRIZE—For excellence in safety education.

JEROME ROBBINS MEMORIAL PRIZE—For the best original short story.

RABBI MURRAY TOBIAS MEMORIAL PRIZE—For character and piety.



WOMEN'S BRANCH OF THE UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA PRIZE—For excellence in chemistry.

LOUIS WERFEL MEMORIAL PRIZE—To the highest ranking junior.

RACHEL WIND MEMORIAL PRIZE—For excellence in sociology.

YESHIVA UNIVERSITY WOMEN'S ORGANIZATION PRIZE—For excellence in English.

NATIONAL COUNCIL OF YOUNG ISRAEL PRIZE—For excellence in history.

MONIS AND CHAYA ZUCKERMAN MEMORIAL PRIZE—For the best research paper in Jewish history.

In addition to the above-mentioned Commencement Prizes, departmental honors are also given for distinction in the following subjects and activities:

Classical Languages

Leadership

Debating and Speech

Patriotic Service

Education

Political Science

French

Psychology

Service and Devotion to the School

YESHIVA UNIVERSITY  
SCHOOLS AND DIVISIONS

*Preparatory  
Schools*

Offer complete Jewish and academic program; grant Regents diploma.

FOR BOYS—Manhattan (1915) (Main Center, Amsterdam Avenue and 186th Street, N. Y. 33, LOrraine 8-8400)

FOR BOYS—Brooklyn (1945) (2270 Church Avenue, Brooklyn 26, ULster 6-4006)

FOR GIRLS—Brooklyn (1948) (2301 Snyder Avenue, Brooklyn 26, BUckminster 4-2850)

FOR GIRLS—Manhattan (1959) (462 West 58th Street, N. Y. 19, JUdson 6-8730)

*Undergraduate  
Schools*

*Colleges of Arts and Sciences*

YESHIVA COLLEGE FOR MEN (1928) (Main Center) first liberal arts college under Jewish auspices; grants Bachelor of Arts and Bachelor of Science degrees.

STERN COLLEGE FOR WOMEN (1954) (Midtown Center, 253 Lexington Avenue, N. Y. 16, MUrray Hill 5-0150) the nation's only liberal arts college for women under Jewish auspices; awards Bachelor of Arts, Bachelor of Religious Education, and Bachelor of Hebrew Literature degrees .

*Teachers Institutes*

FOR MEN (1917) (Main Center) trains Hebrew teachers and administrators; awards Teacher's Diploma and Bachelor of Religious Education and Bachelor of Hebrew Literature degrees.

FOR WOMEN (1952) (Midtown Center) trains Hebrew teachers and administrators; awards Teacher's Diploma and Bachelor of Religious Education and Bachelor of Hebrew Literature degrees.

*Graduate and  
Professional Schools*

RABBI ISAAC ELCHANAN THEOLOGICAL SEMINARY (1896) (Main Center) the nation's foremost training center for orthodox rabbis; confers ordination (semicha).

**BERNARD REVEL GRADUATE SCHOOL** (1937) (Main Center) offers graduate work in Jewish and Semitic studies; confers Master of Arts, Master of Hebrew Literature, Doctor of Hebrew Literature, and Doctor of Philosophy degrees.

**HARRY FISCHER SCHOOL FOR HIGHER JEWISH STUDIES** (1945) (Main Center) offers summer courses in Jewish and Semitic studies; awards Master of Arts, Master of Hebrew Literature, Doctor of Hebrew Literature, and Doctor of Philosophy degrees.

**CANTORIAL TRAINING INSTITUTE** (1954) (Main Center) teaches traditional cantorial functions; awards Cantorial Diploma and Associate Cantor's Certificate.

**ALBERT EINSTEIN COLLEGE OF MEDICINE** (1955) (Bronx Center, Eastchester Road and Morris Park Avenue, Bronx 61, SYcamore 2-2200) the first medical college in the United States under Jewish sponsorship; awards Doctor of Medicine degree.

**SUE GOLDING GRADUATE DIVISION OF MEDICAL SCIENCES** (1957) (Bronx Center) offers advanced study in anatomy, biochemistry, microbiology, immunology, pathology, pharmacology, and physiology; awards Doctor of Philosophy degree.

**SCHOOL OF SOCIAL WORK** (1957) (Graduate Center, 110 West 57th Street, N. Y. 19, JUdson 2-5260) offers a graduate program in social work; grants Master of Social Service degree.

**GRADUATE SCHOOL OF EDUCATION** (1957) (Graduate Center) offers programs in elementary, secondary, special, and religious education; guidance, psychology, administration, and supervision; grants Master of Science, Master of Religious Education, Doctor of Education, and Doctor of Philosophy degrees.

**GRADUATE SCHOOL OF MATHEMATICAL SCIENCES** (1958) (Main Center) offers programs in mathematics and theoretical physics for careers in industry, research, and teaching; confers Master of Science and Doctor of Philosophy degrees.

MATERIALS AVAILABLE

*(Detach this page,  
check items desired,  
and mail to:*

*Director of Admissions,  
Yeshiva University,  
Amsterdam Avenue and 186th Street,  
New York 33, N. Y.)*

.....Bulletin of General Information

.....Yeshiva College Catalog 1959-61

.....Application for admission

.....Information on scholarships and loans

.....Appointment for interview

.....Program for major in.....

Other information desired.....

.....

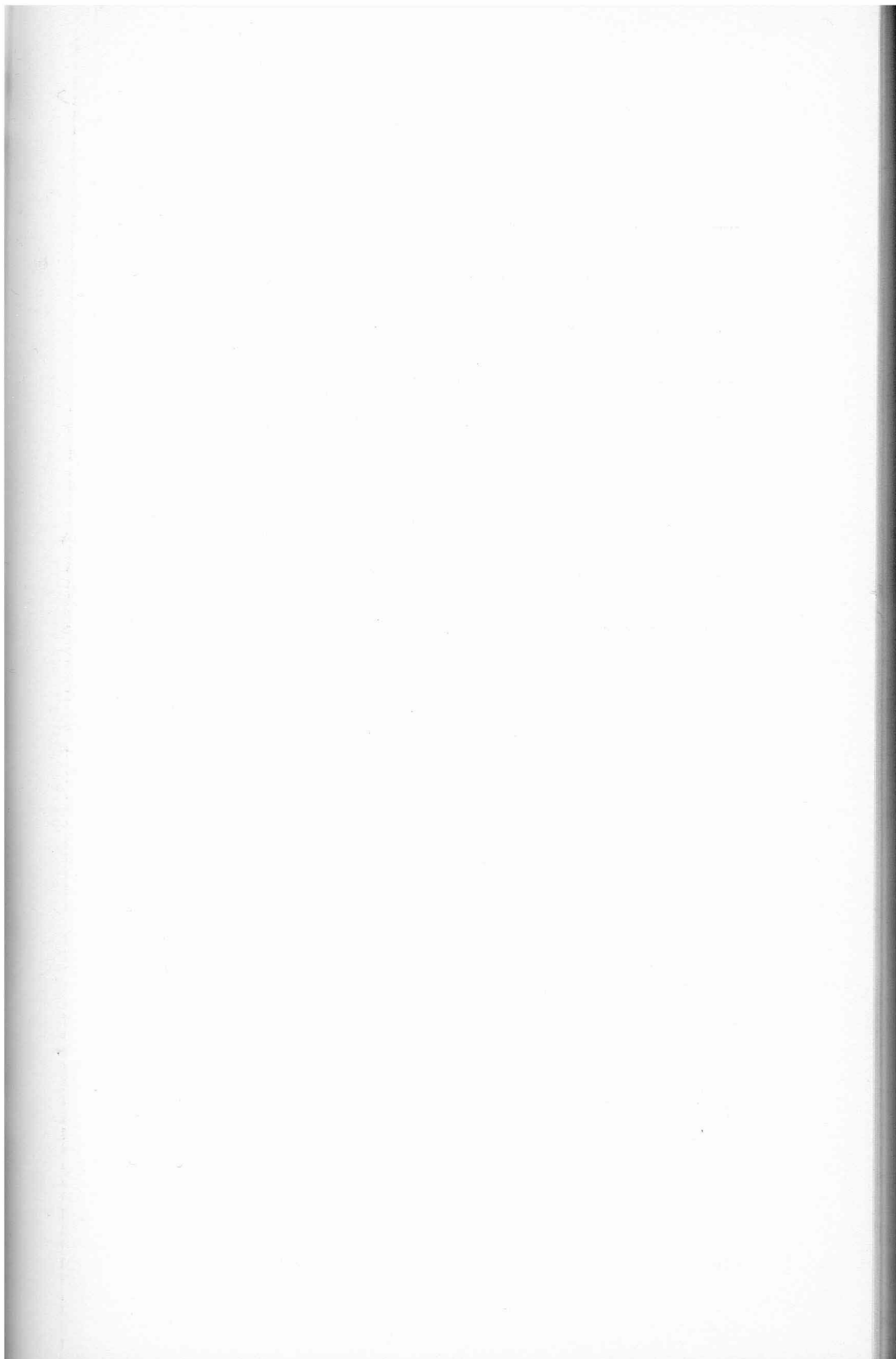
Name .....  
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Number and Street.....

Borough or City..... Zone.....

State .....

Telephone Number .....



*Gifts and  
Bequests*

Yeshiva University is a privately endowed institution deriving its support in the main from the gifts of its friends throughout the country.

There are many ways in which those who would like to associate themselves with the significant work of this spiritual and cultural citadel of learning can help.

Full information may be secured from the Director of Development, Yeshiva University, 110 West 57th Street, New York 19, N. Y. (JUdson 2-5200).

*Suggested Form  
of Bequest*

I hereby give and bequeath to Yeshiva University the sum of .....to be used for the furtherance of its educational purposes.

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