

YESHIVA UNIVERSITY BULLETIN

YESHIVA
COLLEGE

CATALOG 1964 - 66

**YESHIVA
COLLEGE**

AMSTERDAM AVENUE AND 186TH STREET • NEW YORK, N. Y. 10033

CATALOG 1964/66



Regulations in this Catalog and other official statements of the University are binding on all students. The University reserves the right to change regulations at any time without prior notice, and to change tuition and fees as deemed necessary. The posting of official regulations on University bulletin boards is considered sufficient notice to students.

This Catalog pertains only to Yeshiva College. It will be useful as a source of continuing reference and should be carefully saved, since the demand for replacement copies causes expenditures which should more directly serve your education. For general information on Yeshiva University, consult the Bulletin of General Information, which may be obtained from the Dean of Admissions.

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WHERE TO SECURE INFORMATION

THE COLLEGE

General information

OFFICE OF THE DEAN
YESHIVA COLLEGE
YESHIVA UNIVERSITY
Amsterdam Ave. and 186th Street
New York, N. Y. 10033
LOrraine 8-8400

Admission

DEAN OF ADMISSIONS
YESHIVA UNIVERSITY
Amsterdam Ave. and 186th Street
New York, N. Y. 10033
LOrraine 8-8400

Records, transcripts

REGISTRAR
YESHIVA UNIVERSITY
Amsterdam Ave. and 186th Street
New York, N. Y. 10033
LOrraine 8-8400

Student finances, scholarships, loans

DIRECTOR OF STUDENT FINANCES
YESHIVA UNIVERSITY
Amsterdam Ave. and 186th Street
New York, N. Y. 10033
LOrraine 8-8400

THE UNIVERSITY

General interests

THE PRESIDENT, YESHIVA UNIVERSITY
Amsterdam Ave. and 186th Street
New York, N. Y. 10033
LOrraine 8-8400

Admission, catalogs

DEAN OF ADMISSIONS

Records, transcripts

REGISTRAR

Student finances, scholarships, loans

DIRECTOR OF STUDENT FINANCES

General information

DIRECTOR OF PUBLIC RELATIONS

Gifts

DIRECTOR OF DEVELOPMENT
YESHIVA UNIVERSITY
110 West 57th Street
New York, N. Y. 10019
JUdson 2-5200

Bequests

COUNSEL, YESHIVA UNIVERSITY
110 West 57th Street
New York, N. Y. 10019
JUdson 2-5200

ACADEMIC CALENDAR

FALL SEMESTER 1964

Registration for Fall Semester	Wednesday-Monday September 30-October 5
First day of classes	Tuesday, October 6
Last day to enter a new course	Monday, October 19
Last day to withdraw from a course without academic penalty, but with payment of fee	Monday, November 2
Election Day (regular sessions)	Tuesday, November 3
Veterans Day (regular sessions)	Wednesday, November 11
Sessions follow Friday schedule	Wednesday, November 25
Thanksgiving Day (no sessions)	Thursday-Friday November 26-27
Hanukkah (no sessions)	Sunday, November 29
Fast of Tevet (no sessions)	Tuesday, December 15

New Year's Day (no sessions)	Friday, January 1
Last day of classes	Monday, January 18
Tu BiShevat (regular sessions)	Monday, January 18
Registration for Spring Semester	Tuesday, January 19
Final examinations	Wednesday, January 20- Friday, January 29

SPRING SEMESTER 1965

First day of classes	Thursday, February 4
Lincoln's Birthday (regular sessions)	Friday, February 12
Last day to enter a new course	Wednesday, February 17
Washington's Birthday (no sessions)	Monday, February 22
Last day to withdraw from a course without academic penalty, but with payment of fee	Wednesday, March 3
Fast of Esther and Purim (no sessions)	Wednesday-Friday March 17-19
Passover (no sessions)	Thursday, April 15- Sunday, April 25
Israel Independence Day (regular sessions; special observances)	Friday, May 7
Sessions follow Thursday schedule	Tuesday, May 18
Lag BaOmer (no sessions)	Thursday, May 20
Last day of classes	Friday, May 28
Final examinations	Wednesday-Friday June 2-4
	Tuesday, June 8- Monday, June 14
Shavuot (no sessions)	Sunday-Monday June 6-7
Commencement Exercises	Tuesday, June 15

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

BOARD OF TRUSTEES

Max J. Etra, Chairman

Max Stern, Vice Chairman

David Aronow
Arthur B. Belfer
Dr. Samuel Belkin
Charles H. Bendheim
Abraham Borman
Eugene Ferkauf

Sol Furst
Meyer W. Gasner
Louis J. Glickman
A. Phillip Goldsmith
Benjamin Gottesman
Ludwig Jesselson
Harry E. Kalodner

Joseph M. Mazer
Samuel Mellitz
Myron A. Minskoff
Samuel Rosen
Charles H. Silver
Abraham R. Winer

UNIVERSITY ADMINISTRATION

SAMUEL BELKIN, Ph.D.President
EMANUEL RACKMAN, Ph.D.Assistant to the President

ACADEMIC OFFICERS

ISAAC BACON, Ph.D.Dean, Yeshiva College
DAN VOGEL, Ph.D.Dean, Stern College for Women
HYMAN B. GRINSTEIN, Ph.D.Director, Teachers Institute for Men
BARUCH N. FAIVELSON, M.A.Director, Teachers Institute for Women
BERNARD LANDER, Ph.D.Director, Bernard Revel Graduate School and
 Harry Fischel School for Higher Jewish Studies
KARL ADLER, Mus.D.Director, Cantorial Training Institute
MARCUS D. KOGEL, M.D.Dean, Albert Einstein College of Medicine and
 Sue Golding Graduate Division of Medical Sciences
MORTON I. TEICHER, Ph.D.Dean, Wurzweiler School of Social Work
JOSHUA A. FISHMAN, Ph.D.Dean, Graduate School of Education
ABE GELBART, Ph.D.Dean, Belfer Graduate School of Science

ADMINISTRATIVE OFFICERS

DAVID MIRSKY, M.A.Dean of Admissions
MORRIS SILVERMAN, M.A.Registrar
NORMAN B. ABRAMSAdministrative Director, Rabbi Isaac Elchanan Theological Seminary
SHELDON E. SOCOL, LL.B.Director of Student Finances
ABRAHAM G. DUKER, Ph.D.Director of Libraries
SAM HARTSTEIN, B.A.Director of Public Relations
ABRAHAM ZEITZ, LL.B.Director of Development

EXECUTIVE AND BUSINESS OFFICERS

IRVING JACOBSComptroller
SIDNEY SCHUTZ, LL.B.Counsel
JOSHUA E. MATZ, M.A.Treasurer
JOSEPH ELLENBERG, M.A.Bursar
HAROLD SCHUCHMAN, B.B.A., C.P.A.Chief Accountant

YESHIVA COLLEGE ADMINISTRATION

- | | |
|---|----------------------------------|
| ISAAC BACON
Ph.D., Masaryk University | Dean |
| MORRIS J. BESDIN
B.A., Ordination, Yeshiva University | Chairman, Jewish Studies Program |
| SAUL WISCHNITZER
B.A., Yeshiva University; M.S., Ph.D., University of Notre Dame | Assistant to the Dean |
| JOSEPH DUNNER
M.A., Johann Wolfgang Goethe University; Ph.D., University of Basel | Adviser to Pre-Law Students |
| ELI SAR
B.A., Yeshiva University; B.A., New York University; M.D., Creighton University | Director, Medical Office |
| MENACHEM M. BRAYER
Baccalaureate Diploma, Botosani, Romania; Ordination, Yeshiva of Kishinev; M.H.L., D.H.L., Ph.D., Yeshiva University | Consultant Psychologist |
| LEON GREEN
B.A., Ordination, Ph.D., Yeshiva University; M.S., City College of New York | Guidance Counselor |
| SOLOMON ZEIDES
B.A., Yeshiva University; M.A., M.S. in Library Service, Columbia University | Librarian, Pollack Library |
| ABRAHAM B. HURWITZ
B.A., City College of New York; M.A., Columbia University | Director of Student Services |
| JOSHUA CHEIFETZ
B.A., M.S.S., Ordination, Yeshiva University | Director of Residence Halls |
| BERNARD SARACHEK | Director of Athletics |
| MEYER H. EDELSTEIN
B.A., M.H.L., Ordination, Yeshiva University | Assistant Registrar |

FACULTY

- HELMUT E. ADLER** Professor of Psychology
B.A., M.A., Ph.D., Columbia University
- KARL ADLER** University Music Director
and Professor of Music
Mus.D., New York College of Music
- IRVING A. AGUS** Professor of Jewish History
B.S., New York University; Ph.D., Dropsie College
- YAKIR AHARONOV** Associate Professor of Physics
B.S., Technion, Israel; Ph.D., Bristol University
- MILTON ARFA** Visiting Assistant Professor of Hebrew
B.B.A., M.S., City College of New York; Ph.D., Columbia University
- MEYER ATLAS** Professor of Biology
B.S., City College of New York; M.A., Ph.D., Columbia University
- ISAAC BACON** Professor of Linguistics
Ph.D., Masaryk University
- RICHARD D. BARTEL** Visiting Lecturer in Economics
B.A., Ripon College; M.A., Columbia University
- MAURICE BAUDIN** Visiting Professor of French
B.A., Washington University; M.A., Ohio State University; M.A., Columbia University; Ph.D., Johns Hopkins University

- RALPH E. BEHREND** Associate Professor of Physics
B.S., U.S. Naval Academy; M.A., Ph.D., University of California
- EUGENE BEYERS** Visiting Lecturer in Psychology
B.A., Rutgers University; M.A., New School for Social Research
- SAMUEL BLACKMAN** Visiting Lecturer in Chemistry
B.A., Cornell University; M.S., New York University; Ph.D., Polytechnic Institute of Brooklyn
- SIDNEY D. BRAUN*** Professor of French
Diploma, Sorbonne; B.A., M.A., Ph.D., New York University
- MENACHEM M. BRAYER** Associate Professor of Bible
Baccalaureate Diploma, Botosani, Romania; Ordination, Yeshiva of Kishinev; M.H.L., D.H.L., Ph.D., Yeshiva University
- ALEXANDER BRODY** Visiting Professor of History and Economics
B.S., M.A., LL.M., Ph.D., New York University
- NORMAN F. CANTOR** Visiting Associate Professor of History
B.A., University of Manitoba; M.A., Ph.D., Princeton University
- GIDEON CARMİ** Assistant Professor of Physics
M.S., Hebrew University; Ph.D., Bristol University
- MOSHE CARMILLY** Associate Professor of Bible
Diploma, Jewish Theological Seminary, Budapest; Ph.D., Pázmány Péter University
- NORMAN CATES** Visiting Instructor in Biology
B.A., Adelphi University
- MAURICE E. CHERNOWITZ** Professor of Fine Arts
B.A., City College of New York; M.A., Ph.D., Columbia University
- GERSHON A. CHURGIN** Professor of Hebrew
B.A., M.A., Columbia University; Ph.D., Johns Hopkins University
- WILLIAM COHEN** Visiting Lecturer in Education
B.A., M.A., Brooklyn College
- JACK COHN** Visiting Lecturer in Education
B.S., M.S., City College of New York; Ed.D., Columbia University
- JACOB I. DIENSTAG** Lecturer in Library Techniques
Hebrew Teacher's Diploma, B.A., Yeshiva University; M.S. in Library Service, Columbia University
- HERMAN DLUGATZ** Visiting Instructor in Biology
B.S., City College of New York; Ph.G., M.A., Ph.D., Fordham University
- IDA DOBKIN** Instructor in Chemistry
B.A., Hunter College; M.S., New York University
- ABRAHAM G. DUKER** Professor of History and Social Institutions
B.A., City College of New York; Ph.D., Columbia University
- JOSEPH DUNNER** David W. Petegorsky Professor of Political Science
M.A., Johann Wolfgang Goethe University; Ph.D., University of Basel

*On leave

- ELI EPSTEIN** Visiting Instructor in Physical Education
B.S., M.A., New York University
- MURRAY H. FEDER** Visiting Lecturer in German
B.A., City College of New York; M.A., Ph.D., University of California
- MEYER S. FELDBLUM** Assistant Professor of Talmudic Literature
B.A., Ordination, Ph.D., Yeshiva University
- LOUIS H. FELDMAN** Associate Professor of Classics
B.A., M.A., Trinity College; Ph.D., Harvard University
- WILLIAM P. FERREN** Visiting Associate Professor of Chemistry
B.S., Wagner College; M.S., Polytechnic Institute of Brooklyn; Ph.D., Rutgers University
- DAVID FINKELSTEIN** Young Men's Philanthropic League
Professor of Physics
B.S., City College of New York; Ph.D., Massachusetts Institute of Technology
- LEOPOLD FLATTO** Associate Professor of Mathematics
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- DAVID FLEISHER** Professor of English
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- HARRY FRUMERMAN** Visiting Lecturer in Economics
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- MATTHEW M. FRYDE** Visiting Professor of Mathematics
LL.M., University of Warsaw; J.D., Oxford University
- SELMA GLANZ** Visiting Lecturer in French
B.S., Columbia University; M.A., New York University
- NATHAN GOLDBERG** Professor of Sociology
B.A., M.A., University of Pittsburgh
- IRVING GREENBERG** Associate Professor of History
B.A., Brooklyn College; M.A., Ph.D., Harvard University
- HYMAN B. GRINSTEIN** Professor of Jewish History
B.S., M.A., Ph.D., Columbia University
- MAYER HERSKOVICS** Assistant Professor of Jewish Studies
M.A., Pázmány Péter University; Ordination; D.H.L., Yeshiva University
- JERRY HOCHBAUM** Instructor in Sociology
B.A., Yeshiva University; M.A., Columbia University
- ABRAHAM B. HURWITZ** Professor of Physical Education
B.A., City College of New York; M.A., Columbia University
- ARTHUR HYMAN** Associate Professor of Philosophy
B.A., St. John's College; M.H.L., Jewish Theological Seminary of America; M.A., Ph.D., Harvard University
- MICHAEL KATZ** Assistant Professor of Talmud
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- AUREL KEATING** Instructor in Speech
B.A., University of California; M.A., Syracuse University
- GILBERT KLAPERMAN** Visiting Assistant Professor of Sociology
B.A., D.H.L., Yeshiva University; M.A., University of Iowa
- THOMAS KNUDSEN** Visiting Lecturer in German
B.A., M.A., Columbia University
- PHILIP E. KRAUS** Visiting Professor of Education
B.A., City College of New York; M.A., Columbia University; Ph.D., New York University
- AARON D. KRUMBEIN** Visiting Assistant Professor of Physics
B.A., Brooklyn College; Ph.D., New York University
- SEYMOUR LAINOFF** Associate Professor of English
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- NATHAN LANDER*** Assistant Professor of Sociology
B.B.A., City College of New York; M.A., Columbia University; Ph.D., Yeshiva University
- LEON F. LANDOVITZ** Associate Professor of Physics
B.A., Ph.D., Columbia University
- HAYIM LEAF** Assistant Professor of Hebrew
Hebrew Teacher's Diploma, B.A., Yeshiva University
- JOEL L. LEBOWITZ** Associate Professor of Physics
B.S., Brooklyn College; M.S., Ph.D., Syracuse University
- ELI M. LEVINE** Professor of Chemistry
B.A., Yeshiva University; M.A., Columbia University; Ph.D., Polytechnic Institute of Brooklyn
- CHARLES S. LIEBMAN** Assistant Professor of Political Science
B.B.A., University of Miami; M.A., Ph.D., University of Illinois
- IRVING LINN** Professor of English
B.B.A., City College of New York; M.A., Ph.D., New York University
- HENRY LISMAN** Professor of Mathematics
B.S., M.A., Ph.D., Boston University
- ALEXANDER LITMAN** Professor of Philosophy
B.A., University of Minnesota; Ph.D., Columbia University
- JOSEPH H. LOOKSTEIN*** Professor of Sociology
B.A., City College of New York; M.A., Columbia University; D.D., Yeshiva University
- DAVID MIRSKY** Associate Professor of English
B.A., Yeshiva University; M.A., Columbia University
- WALTER E. NALLIN** Visiting Associate Professor of Music
B.S., M.A., Columbia University; Ed.D., New York University
- DONALD J. NEWMAN** Professor of Mathematics
B.A., New York University; Ph.D., Harvard University
- BARBARA OHLSON** Instructor in Speech
B.A., Occidental College; M.A., Northwestern University
- SIDNEY PLESKIN** Associate Professor of Education
B.A., Yeshiva University; M.A., Ed.D., Columbia University

*On leave

- PEREZ POSEN** Assistant Professor of Physics
B.A.Sc., University of Toronto; M.A., New York University
- EMANUEL RACKMAN** Associate Professor of Political Science
B.A., LL.B., Ph.D., Columbia University
- HARRY E. RAUCH** Professor of Mathematics
B.A., M.A., Ph.D., Princeton University
- MOSHE A. REGUER** Assistant Professor of Bible
Hebrew Teacher's Diploma, B.A., Ordination, D.H.L., Yeshiva University
- RALPH P. ROSENBERG** Professor of German
B.S., City College of New York; M.A., Ph.D., University of Wisconsin
- MARVIN SALZBERG** Visiting Assistant Professor of Music
B.M., Hartt College of Music; M.M., University of Illinois; D.M.A., Cornell University
- SHELLEY R. SAPHIRE** Professor Emeritus of Biology
B.A., City College of New York; M.A., Ph.D., Columbia University
- LOUIS F. SAS** Visiting Professor of Spanish
B.A., City College of New York; M.A., Ph.D., Columbia University
- HARVEY Z. SENTER** Visiting Assistant Professor of Mathematics
B.A., M.S., Ph.D., Yeshiva University
- JOSHUA SHMIDMAN** Visiting Lecturer in Jewish Philosophy
B.A., Brooklyn College; Ordination, Mesivta Rabbi Chaim Berlin
- JOSHUA SHUCHATOWITZ** Laboratory Instructor in Physics
B.A., M.S., M.H.L., Yeshiva University
- HAROLD SHULMAN** Visiting Lecturer in Mathematics
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- ASHER SIEV** Associate Professor of Hebrew
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- MORRIS SILVERMAN** Associate Professor of History
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- AARON SKAIST** Dean Samuel L. Sar Assistant Professor of Bible
B.A., Ordination, Yeshiva University; Ph.D., University of Pennsylvania
- SAMUEL SOLOVEICHIK** Associate Professor of Chemistry
Sc.D., University of Brussels
- WILLIAM SPINDEL** Professor of Chemistry
B.A., Brooklyn College; M.A., Ph.D., Columbia University
- CHARLES A. SPIRN** Visiting Lecturer in French
B.A., Ordination, Yeshiva University
- MANNY STERNLICHT** Visiting Assistant Professor of Psychology
B.A., M.A., City College of New York; Ph.D., Yeshiva University
- NATHAN SUSSKIND** Visiting Associate Professor of Yiddish
B.A., M.S., City College of New York; Ph.D., New York University
- NINA SYNIAWSKA** Visiting Lecturer in Russian
Ph.D., Free University of Prague

- ABRAHAM TAUBER** Visiting Professor of Speech
B.S.S., City College of New York; M.A., Ph.D., Columbia University
- ARTHUR D. TAUBER** Visiting Assistant Professor of Physical Education
B.A., M.A., New York University
- LEO TAUBES** Instructor in English
B.A., Yeshiva University; M.A., Columbia University
- MOSES D. TENDLER** Professor of Biology
B.A., M.A., New York University; Ph.D., Columbia University
- FERNAND L. VIAL** Visiting Professor of French
License, University of Lyons; M.A., Ph.D., University of Michigan
- MANFRED WEIDHORN** Assistant Professor of English
B.A., Ph.D., Columbia University; M.A., University of Wisconsin
- HYMAN S. WETTSTEIN** Visiting Assistant Professor of Physical Education
B.A., M.A., New York University
- SAUL WISCHNITZER** Associate Professor of Biology
B.A., Yeshiva University; M.S., Ph.D., University of Notre Dame
- HENRY WITTENBERG** Visiting Instructor in Physical Education
B.S., City College of New York; M.A., Columbia University
- MAURICE WOHLGELERNTER** Assistant Professor of English
B.A., Yeshiva University; M.A., Ph.D., Columbia University
- ARTHUR E. WOODRUFF** Assistant Professor of Science Education
B.S., M.S., Yale University; Ph.D., University of Rochester
- SOLOMON ZEIDES** Instructor in Library Techniques
B.A., Yeshiva University; M.A., M.S. in Library Service, Columbia University
- WILLIAM ZLOT** Associate Professor of Mathematics Education
B.S., City College of New York; A.M., M.B.A., M.A., Ph.D., Columbia University

TEACHING FELLOWS

- AARON LEBOWITZ** Teaching Fellow in Mathematics
B.A., M.A., Yeshiva University
- LOUIS RAYMON** Teaching Fellow in Mathematics
B.A., M.S., Yeshiva University
- FREDERICK SCHATZMAN** Teaching Fellow in Physics
B.S., Oglethorpe University

FACULTY ORGANIZATION

THE DIVISIONS

All courses of instruction are grouped under four divisions, each comprising several subjects.

Language, Literature, and the Fine Arts

Art, English, French, German, Greek, Latin, Linguistics, Music, Russian, Spanish, Speech, Yiddish (jointly with Jewish Studies)

The Natural Sciences

Biology, Chemistry, Drafting, Mathematics, Physics

The Social Sciences

Economics, Education, History, Library, Philosophy, Physical Education and Hygiene, Political Science, Psychology, Sociology

Jewish Studies

Bible, Hebrew, Jewish History, Yiddish (jointly with Language)

STANDING COMMITTEES OF THE FACULTY

Committee on Committees

Committee on Curriculum and Instruction	Student Activities Judiciary Committee
Library Committee	Student Activities Policy Committee
Scholastic Standing Committee	Welfare Committee

YESHIVA UNIVERSITY

Yeshiva University, America's oldest and largest university under Jewish auspices, provides undergraduate, graduate, and professional studies in the arts and sciences and Jewish learning. It is chartered by the State of New York, accredited by the Middle States Association of Colleges and Secondary Schools and by specialized professional agencies, and is a member of the College Entrance Examination Board.

In addition to its extensive teaching programs, the University conducts a network of community service agencies, a widespread program of research, and publishes several scholarly journals.

Schools and Divisions

The constituent schools and divisions include:

On the undergraduate level — Yeshiva College for Men (Main Center, Amsterdam Avenue and 186th Street, N. Y.), Stern College for Women (Midtown Center, 253 Lexington Avenue, N. Y.), and two Teachers Institutes, for Men

(Main Center) and for Women (Midtown Center); and on the graduate and professional level—Rabbi Isaac Elchanan Theological Seminary (Main Center), Bernard Revel Graduate School (Main Center), Harry Fischel School for Higher Jewish Studies (Main Center), Cantorial Training Institute (Main Center), Albert Einstein College of Medicine (Bronx Center, Eastchester Road and Morris Park Avenue), Sue Golding Graduate Division of Medical Sciences (Bronx Center), Wurzweiler School of Social Work (Graduate Center, 110 West 57th Street, N. Y.), Graduate School of Education (Graduate Center), and Belfer Graduate School of Science (Main Center).

Teaching Centers

The University's four teaching centers are located in Manhattan and the Bronx. The Main, Midtown, and Bronx Centers have dormitory and dining facilities. Each school is so conducted as to assure friendly, informal, and educationally sound relationships between students and faculty. All units thus retain the character and virtues of small institutions.

The Main Center, in Manhattan's Washington Heights, is the hub of the University. Situated on Laurel Hill, site of an important 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, along the Harlem River. Among its noteworthy facilities are the Main Building—a Byzantine-style landmark erected in 1928—with the Harry Fischel Synagogue-Study Hall, Nathan Lampport Auditorium, classrooms, and laboratories; Sol and Hilda Furst Hall, a classroom-administration building, at 500 West 185th Street, completed in 1962 and used for classrooms, laboratories, faculty offices, and University-wide administrative offices; Danciger Campus with the Leah and Joseph Rubin Residence Hall, including the Lipschutz-Gutwirth Study Hall, and new Residence Hall opened in 1964; Pollack and Mendel Gottesman Libraries; and Riets Hall, home of the Audio-Visual Center and Film Library, Herman Gerofsky Physics and Research Center, and Klein Hall. Belfer Graduate School of Science is nearby at the Main Center Annex, 601 West 183rd Street.

The Midtown Center, at 253 Lexington Avenue (35th Street) in Manhattan's Murray Hill section, houses Stern College for Women and Teachers Institute for Women. Here are the Siegfried Stern Library and Louis Koch Auditorium.

The Graduate Center, in midtown Manhattan at 110 West 57th Street, is the home of the Graduate School of Education, Wurzweiler School of Social Work, Psychological Center, Graduate Center Library, and the University's business, financial, and development offices.

The Bronx Center, at Eastchester Road and Morris Park Avenue, in the Westchester Heights section, is the site of Albert Einstein College of Medicine and Sue Golding Graduate Division of Medical Sciences. Facilities include the Science Building; Ullmann Research Center for Health Sciences; Abraham Mazer Residence Hall; D. Samuel Gottesman Library; Evelyn and Joseph I. Lubin Student Activities Center; Mary and Karl Robbins Auditorium; and Max L. and Sadie Friedman Lounge.

Undergraduate Studies

The undergraduate colleges — for men and women — are unique, providing in one program both general and Jewish studies leading to Bachelor's degrees. Previous training in Jewish studies is not required for admission. Courses in Jewish learning are geared to the student's level of preparation and are designed for his particular aims. Students engage in a full program of extracurricular activities.

Major courses of study are available in the following areas: biology, chemistry, classical languages (Greek and Latin), economics, education, English, French, Hebrew, history, Jewish studies, mathematics, music, philosophy, physics, political science, psychology, sociology, and the pre-professional studies of pre-law, pre-medicine, pre-dentistry, and pre-engineering.

Graduate and Professional Studies

Graduate and professional studies are offered to qualified college graduates in nine divisions. These units are mostly coeducational and nondenominational, and include curriculums leading to diplomas, certificates, and Master's and Doctor's degrees. Their programs require students to show excellence in both scholarship and research.

Several curriculums are experimental, providing students with a rare opportunity to develop leadership qualities through participation in pace-setting projects. Students in any of several internship programs benefit from the cooperation of leading educational, social, medical, and religious agencies, gaining practical experience before entering their fields. All graduate and professional programs are strengthened by faculties of experts drawn both from the University and the community.

Opportunities are available in the following fields: **General Studies:** anatomy; biochemistry; cell biology; education — elementary, secondary, administration and supervision, social sciences (history, government, sociology), mathematics and science, special, therapeutic, religious, language, speech, and communication; genetics; guidance; immunology; mathematics; medicine; microbiology; molecular biology; pathology; pharmacology; physics; physiology; psychology — clinical, educational, experimental, school, personality

and social; social work — group work, casework. **Jewish Studies:** Bible; cantorial liturgy and musicianship; Jewish history; Jewish literature; Jewish philosophy; rabbinics; Semitics; Talmud.

Libraries

The six libraries, with some 300,000 volumes, include materials on all branches of the arts and sciences and Hebraica-Judaica. A close-knit family, they offer the services of exchanges and interlibrary loans to help the reader and researcher. The Mendel Gottesman Library at the Main Center is a major collection of Hebraica-Judaica. Two libraries are primarily for undergraduates: the Pollack at the Main Center, aiding studies in the arts and sciences; and the Siegfried Stern at the Midtown Center, with general and Jewish works. The D. Samuel Gottesman Library at Albert Einstein College of Medicine, Graduate Center Library, and Belfer Graduate School of Science Library house various resources including a wide selection of periodicals to serve the needs of the most advanced scholar. Through its continuing acquisition program the University has obtained many important works. In addition the excellent public and private libraries of New York are available for student use.

Auxiliary Services

Recognizing that its responsibilities extend beyond the academic scene, Yeshiva University offers the community at large a wide range of auxiliary services. The **Community Service Division** assists traditional congregations throughout the United States and Canada in such areas as adult education, youth activities, placement, and synagogue administration. **Pictorial Mathematics** makes available illustrations, pamphlets, and other materials designed as mathematical teaching aids. The **Psychological Center** provides mental health assistance to individuals referred by recognized agencies. The **Audio-Visual Center** produces records, tapes, films and filmstrips 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 schools, colleges, and other institutions. The **Israel Institute** offers courses on the history and problems of Israel and lectures for laymen stressing the relationship between Israel and the American Jewish community. The **West Coast Institute of Jewish Studies** in Los Angeles provides teacher training and adult education programs for that area.

Special Projects

To expand the horizons of knowledge, the University conducts varied programs of research. Grants have been made for studies in the sciences, mathematics, physics, languages, and Jewish learning. These include such

wide-ranging projects as the National Institute of Mental Health Project, developing specialized curriculums in mental health for rabbis; Project Beacon, preparing educational personnel for challenging assignments in socially deprived communities; "Living Biology" Film Series, producing motion pictures designed to improve biology instruction in secondary schools, colleges, and universities; Retraining Program for Service in New York Elementary and Secondary Schools, preparing college graduates from the South and other parts of the country for teaching careers in New York; Study of Compensatory Educational Programs and Practices in Colleges and Universities, analyzing methods used at various institutions to help potentially able college students who are handicapped by socially deprived environments and inadequate precollege experiences; and summer institutes for secondary school teachers and students. Among the supporting agencies are the National Science Foundation, National Institutes of Health, U. S. Air Force, Atomic Energy Commission, U. S. Office of Education, National Aeronautics and Space Administration, and private foundations.

Publications

Among the noteworthy publications issued are: **Horeb, Talpioth, and Sura**, periodicals published in Hebrew and devoted to Jewish history, law, literature, and culture; **Studies in Torah Judaism**, books and pamphlets on a variety of subjects designed to interpret Judaism for the general public; **Scripta Mathematica**, a leading quarterly journal on the research and expository aspects of mathematics; and **Mathematica Press**, a series of original books by outstanding mathematicians.

A HISTORY IN BRIEF

Yeshiva University has evolved from two of this country's oldest yeshivas (schools of traditional Jewish learning): Yeshiva Eitz Chaim, founded in 1886 as an elementary day school offering instruction in Jewish and general studies; and the Rabbi Isaac Elchanan Theological Seminary, organized 10 years later to provide young men with the opportunity for intensive study of the Talmud and named in memory of Rabbi Isaac Elchanan Spektor (1817-1896), noted Rabbi of Kovno, Lithuania.

In 1915 Rabbi Dr. Bernard Revel (1885-1940) was appointed president and these two schools, located on New York's Lower East Side, merged under the name of the latter and moved to 9-11 Montgomery Street.

In addition to reorganizing the course of study in the Seminary, he founded the same year, as an integral part of the institution, Talmudical Academy (now Yeshiva University High School for Boys-Manhattan) — the first high school under Jewish auspices in the United States.

In 1921 the Teachers Institute, founded by the Mizrahi Organization of America in 1917 to train teachers and supervisors for Hebrew schools in the United States and Canada, joined the Yeshiva. (Today it is known as Teachers Institute for Men.)

Yeshiva College Opens

In 1928 the first college of liberal arts and sciences in America under Jewish auspices — Yeshiva College — opened its doors.

Under the name "Rabbi Isaac Elchanan Theological Seminary and Yeshiva College," the expanding institution moved the following year to the present Main Center, Amsterdam Avenue and 186th Street, in Manhattan's Washington Heights.

The first graduate program — in Semitics — was introduced in 1935. (This is now incorporated in Bernard Revel Graduate School, established in 1937, and Harry Fischel School for Higher Jewish Studies.)

The dynamic leadership of Dr. Revel ended with his death in 1940. For his many vital contributions to the institution's development during its crucial formative years, the first president will long be remembered with esteem.

Dr. Belkin Becomes President

Rabbi Dr. Samuel Belkin was elected president in 1943 and the institution entered a new era. He blueprinted a broad academic and physical expansion program designed to make the school a still greater force for service to the community. A great milestone in its history, and the event that initiated the most significant period of growth, was its elevation in 1945, by action of the New York State Board of Regents, to university status. Thus Yeshiva achieved the distinction of becoming America's first university under Jewish auspices.

That year Harry Fischel School for Higher Jewish Studies and the Institute of Mathematics were founded, together with the Community Service Division, an auxiliary unit extending the University's religious, programing, and placement resources to communities throughout the United States and Canada. In 1948 the University added the graduate School of Education and Community Administration, Audio-Visual Center, and Psychological Center.

In 1954 two additional institutes were established — Cantorial Training Institute and Israel Institute.

Secondary Education

As it has continued to develop the undergraduate and graduate programs, Yeshiva University has nurtured a secondary school system. The High School

for Boys-Brooklyn opened in 1945 and three years later the High School for Girls-Brooklyn was added — the first secondary school in the nation to offer a combined general and Jewish education for girls. The pattern of expanding opportunities continued in 1959 with the opening of the High School for Girls-Manhattan. There are presently four Yeshiva University High Schools for Boys and Girls, offering combined general and Jewish studies leading to diplomas.

Education of Women

In 1952 educational opportunities for women were markedly enlarged when Teachers Institute for Women was founded. Stern College for Women, America's first women's liberal arts college under Jewish sponsorship, was established two years later through a gift by New York industrialist Max Stern, vice chairman of the University's Board of Trustees.

Medical School Established

The University's charter had been amended in 1950, authorizing it to grant the degrees of Doctor of Medicine and Doctor of Dental Surgery. The next year Yeshiva University and the City of New York entered into an agreement whereby the college of medicine was to be responsible for the professional care of all patients in the new 1,400-bed Bronx Municipal Hospital Center, providing students the opportunity to make use of the wealth of clinical material available in inpatient and outpatient services. The year 1955 witnessed the culmination of a monumental undertaking in modern Jewish life: the opening of Albert Einstein College of Medicine, America's first medical school under Jewish auspices.

Recent Growth

Yeshiva University reorganized its graduate programs in 1957, dividing the School of Education and Community Administration into two units: the Graduate School of Education, established with the aid of a major grant by the Fund for the Advancement of Education, and the School of Social Work, the first university-based program to train personnel for both Jewish and general social work agencies. That year Albert Einstein College of Medicine established its first subdivision: Sue Golding Graduate Division of Medical Sciences.

In 1958, answering the nation's urgent call for qualified scientific personnel, the Institute of Mathematics was expanded and renamed the Graduate School of Mathematical Sciences. It was further developed in 1960 into the Graduate School of Science and renamed Belfer Graduate School of Science two years later in recognition of the generosity of Arthur B. Belfer.

Also in 1962 the School of Social Work became Wurzweiler School of Social Work to honor the benefaction of the Gustav Wurzweiler Foundation.

On the occasion of its 75th anniversary in 1961, Yeshiva University launched a 10-year, \$65,000,000 Blueprint for the Sixties development program. Phase A of this most comprehensive expansion in its history is underway at the Main Center, where a \$30,000,000 Yeshiva University City is being built. The first units — Sol and Hilda Furst Hall and a new Residence Hall — have been completed. A central University Library and a teaching and research Science Center round out the initial portion of this dynamic project. Phase B calls for the erection of a gymnasium-recreation hall, classroom and residence facilities for the women's colleges, and graduate resources. The \$35,000,000 medical science building program to strengthen and extend medical training, research, and patient care is being realized through the addition of a Hospital and the Ullmann Research Center for Health Sciences.

Ground is soon to be broken for a 15-story Science Center for Belfer Graduate School of Science. The \$15,000,000 undertaking will include classrooms, seminar rooms, laboratories for nuclear research, a computer center, and other major facilities for study and research in physics, mathematics, chemistry, biophysics, and astrophysics.

A seven-story, block-long, central University Library will be the next structure in Phase A. Designed to house more than 1,000,000 volumes, the library will also contain study cubicles, reading rooms, facilities for microfilming, and exhibition halls.

For over three-quarters of a century Yeshiva University has taken a position of leadership in higher education, serving the Jewish community, and the nation as a whole, as an expression of Jewry in a free society.



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 while simultaneously pursuing studies in Jewish religion and culture. With an enrollment of about 700 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.

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 Teachers Institute for Men, the Rabbi Isaac Elchanan Theological Seminary, or the Jewish Studies Program.

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.

MAIN CENTER

The Main Center in Washington Heights is the hub of Yeshiva University. Situated on Laurel Hill, site of an important 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, along the Harlem River. Washington Park is nearby.

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: Teachers Institute for Men, Rabbi Isaac Elchanan Theological Seminary, Bernard Revel Graduate School, Harry Fischel School for Higher Jewish Studies, Cantorial Training Institute, Belfer Graduate School of Science.

Facilities at the Main Center include:

Main Building (2540 Amsterdam Avenue, at 186th Street) a Byzantine-style structure erected in 1928 at a cost of \$2,500,000 and opened the following year when Yeshiva College moved to the Main Center. This building has been the heart of a rapidly growing University, its towering minarets and colorfully decorated domes making it a prominent feature of Washington Heights.

In addition to 23 classrooms, it contains: sub-level — Gymnasium; first floor — Office of the Administrative Director, Rabbi Isaac Elchanan Theological Seminary; Nathan Lampport Auditorium, scene of important events such as Semicha Convocations honoring the past year's graduates of the Rabbi Isaac Elchanan Theological Seminary, special convocations (e.g. honorary degree award to Chief Justice Earl Warren), addresses by world-renowned figures (e.g. Israel Premier David Ben-Gurion); Harry Fischel Synagogue-Study Hall; second floor — Mendel Gottesman Library, with one of the world's leading collections of Hebraica-Judaica. Five chemistry laboratories are housed here. The building is connected by corridor to:

Riets Hall (526 West 187th Street) located in the north wing of the Main Building and containing: Herman Gerofsky Physics and Research Center, utilized for undergraduate physics instruction; Klein Hall, where conferences, classes, seminars, receptions, and film showings are held; psychology department offices and laboratory; offices of the Audio-Visual Center and Film Library, Guidance, and the Cantorial Training Institute.

Sol and Hilda Furst Hall (500 West 185th Street) which was completed in September 1962 to meet the needs of an expanding Main Center. In addition to 34 classrooms, faculty offices, and conference rooms, it contains: sub-level — Biology Center with six laboratories, a demonstration-lecture museum with slides and specimens, fermentation room, radioactive "hot" room, section for examination of large and small animals, areas for study in anatomy, histology, and microbiology; Student Lounge (dedicated by the Yeshiva University Women's Organization), with games and other materials for recreation; Reproduction Services; first floor — central administrative offices such as Assistant to the President, Admissions, Registrar, Student Finances, and Director of Libraries; respective heads of Yeshiva College, Teachers Institute for Men, Bernard Revel Graduate School and Harry Fischel School for Higher Jewish Studies; Buildings and Grounds; second floor — Language Laboratory; third floor — Ben Zion Study Hall; fourth floor — Israel Institute; Community Service Division; Alumni Activities; Public Relations; two study halls; fifth floor — Office of the President; Harry and Sarah Silver Lecture Hall; Meyer Staff Lounge.

Danciger Campus (Bounded on the east and west by Laurel Hill Terrace and Amsterdam Avenue, and on the north and south by 186th and 184th Streets; overlooking the Harlem River) a tract on which the annual Commencement Exercises and other institutional events are held.

Leah and Joseph Rubin Residence Hall (South end of Danciger Campus) a seven-story dormitory opened in 1957 for Yeshiva College students. It houses, in addition to 151 rooms accommodating 300: sub-level — Dining Room, providing food service 7 days a week and seating 500; first floor — Lipschutz-Gutwirth Study Hall; infirmary; guest rooms; Residence Hall Director. **New Residence Hall** (North end of Danciger Campus) which opened in the fall of 1964. This 8-story, \$3,500,000 building contains 156 rooms housing 312 students.

Pollack Library (2530 Amsterdam Avenue) a comprehensive collection of books and periodicals designed to aid undergraduate students in the arts and sciences.

Main Center Annex (601 West 183rd Street) which houses Belfer Graduate School of Science, with: plasma laboratories; experimental and machine shop; theoretical research laboratories; Belfer Graduate School of Science Library; seminar and lecture rooms; offices.

The Blueprint for the Sixties development program includes two additions to the Main Center: a Science Center — to be the permanent home of Belfer Graduate School of Science — and a new central University Library.

CURRICULUMS

BACHELOR OF ARTS

Majors

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

Biology, p. 62	Music, p. 91
Chemistry, p. 64	Philosophy, p. 94
Classical Languages, p. 66	Physics, p. 98
Economics, p. 68	Political Science, p. 101
English, p. 73	Pre-engineering, p. 29
French, p. 76	Premedical-Pre dental Studies, p. 29
Hebrew, p. 80	Psychology, p. 104
History, p. 83	Psychology-Education, p. 71
Jewish Studies, p. 28	Sociology, p. 108
Mathematics, p. 89	

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

The approval of both the senior professor of the subject in which the student is majoring and the chairman of that division are necessary for a waiver or substitution of one course for another in the requirements for graduation or for the major; this request must be made before taking the substitute course.

Interdepartmental Majors

Jewish Studies

Students majoring in Jewish Studies are required to take 27 credits chosen from the following:

(At least 15 must be in Bible or Hebrew or Jewish History)

- a. Bible — Courses above 8
- b. Hebrew — Courses above 1-2
- c. Jewish History — Courses above 71-72
- d. Jewish Philosophy
- e. Library 5;6

Pre-engineering

The pre-engineering major may elect to earn either the B.A. or B.S. degree. The following courses are required for the B.A. degree:

- a. Chemistry 1-2
- b. Drafting Ia-b (Students planning to become aeronautical, chemical, or electrical engineers may be excused from this course with the permission of the Pre-engineering Coordinator)
- c. Mathematics 9-10 (or 1.1-2.1, 3.1,4.1), 23-24, 33,34
- d. Physics 1-2, 11a,12a, 13,14

B.S. degree requirements are given on page 34.

Premedical-Pre dental

The following courses are required for the premedical-pre dental major:

- a. Biology 1-2
- b. Chemistry 1-2, 11, 13a,14a
- c. Mathematics 1.1-2.1
- d. Physics 1-2

Each premedical and pre dental major is required to designate another subject as his minor, and his program is adjusted to permit as many courses as possible in this subject.

Pre-law Training

Students planning to enter law school after college may major in any subject. However, a social science is recommended.

Degree Requirements

- a. 128 credits, of which not more than 8 may be in physical education. Students must complete at least 58 credits at Yeshiva College. At least 24 of the last 35 credits must be taken at the College. One credit represents one period of lecture or recitation, or two periods of laboratory work, per week for one semester, unless otherwise stated in the course listing. A semester consists of 16 weeks; a period, of 50 minutes.
- b. An average of 2.0 or better in all studies and a grade of C or better in all courses in the major presented for the major requirement.
- c. Approbation of the faculty.

- d. Completion of all requirements within six years of the date of admission, excluding time lost because of serious illness or service with the armed forces.
- e. Filing of an Application for Degree during the registration period of the semester in which the student completes all requirements.

The following courses are required of all students:

A. 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), or Jewish Studies Program (JSP).

RIETS Students

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

	Credits
¹ Bible	8
² Hebrew 1a-2a or 1-2 and 3;4	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 Office of the Dean, YC. Descriptions of these courses will be found in this Catalog.

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

TIM Students

The following procedures apply to the transfer of credit from TIM to YC:

1. YC students enrolled in TIM must transfer a minimum of 16 credits and a maximum of 32 credits from TIM toward their B.A. or B.S. degree.
2. Unless written permission for a change is secured from both the Director of TIM and the Registrar, the 16 credits must be transferred at the rate of 4 each semester the first two years of attendance.
3. Credit can be transferred for Bible, Hebrew, and Jewish History; with permission, Education, Jewish Philosophy, and Rabbinic Literature may also be transferred.

¹ One course each semester of attendance. At least four semesters must be passed.

² Students entering with a knowledge of Hebrew higher than the level of course 4 must take two semesters of advanced courses.

4. TIM courses generally carry 2 credits. The student receives credit for the two courses in which he has the highest grades, unless he specifically requests otherwise in writing before the end of the semester. Normally credit is transferred in the spring for the same subjects that were transferred in the fall.
5. If a student has a failure, two individual courses are **not** transferred. Instead, a composite average for all his TIM work (including the failure) is transferred and entered on the record as "Jewish Studies: Hebrew Language and Literature—4 credits."
6. A student who is not taking a full program at TIM (20 hours a week in Classes 3, 4, and 5; 16 hours a week in Classes 6 and 7) must also transfer a composite average.
7. Students who have already transferred 16 credits to YC may transfer up to 16 more as electives. For the 16 electives, they may select the individual courses to be transferred regardless of the rest of their program or record at TIM.

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 Chairman of the JSP. 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 83.

A maximum of 32 credits in Jewish Studies may be transferred from TIM or JSP or another institution toward the B.A. or B.S. degree.

Students attending TIM or JSP may not take any course in Jewish Studies at YC unless the head of their school certifies that the curriculum in that school does not include such a course.

B. NATURAL SCIENCES	Credits
Biology or Chemistry or Physics 1-2 or 1a-2a.....	6-8
¹ Hygiene 1;2	2
Mathematics 1.1-2.1 or 9-10 (for science majors only).....	6-8

¹ Not required of premedical or pre dental majors.

C. SOCIAL SCIENCES

One year, chosen from the following: Economics 1; History 1;2, 5;6; Philosophy 9-10; Political Science 1,2; Psychology 1; Sociology 1 (History 5;6 must be taken if American history is not offered for admission) 6

¹ Physical Education 4

D. LANGUAGE, LITERATURE, AND THE FINE ARTS

English 1-2, 3-4 12

Art 1; Music 1 2

Speech 1.1, 2.1 4

Foreign Language 6-12

All students except those majoring in biology, chemistry, pre-engineering, or premedical-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, pre-engineering, or premedical-pre dental studies are advised to fulfill the above requirement, but are required to take only one year of French, German, or Russian.

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 choosing their foreign language.

Comprehensive Examinations

To be eligible for graduation, each senior must take comprehensive examinations, which the school uses 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 given below:

¹ One course each semester of attendance. At least four semesters must be passed.

MAJORS IN LABORATORY SCIENCE (biology, chemistry, physics, pre-engineering, premedical-pre dental)

Freshman Year

English 1-2	3 cr. ea.
¹ Science 1-2	4
Jewish Studies	4
Mathematics 1.1-2.1 or 9-10	3 or 4
Hygiene 1;2 or Art 1 and Music 1	1
Speech 1.1, 2.1	2
Phys. Ed. 1-2	½

Sophomore Year

English 3-4	3 cr. ea.
Science 11-12	3-5
Second Science	4
Jewish Studies	4
Phys. Ed. 3-4	½
² Hygiene 1;2 and/or Art 1 and Music 1	1-2

MAJORS IN OTHER SUBJECTS
Freshman Year

English 1-2	3 cr. ea.
Language 1-2	3
Jewish Studies	4
History 1;2 or Mathe- matics 1.1-2.1	3
Hygiene 1;2	1
Art 1 and Music 1	1
Speech 1.1, 2.1	2
Phys. Ed. 1-2	½

Sophomore Year

English 3-4	3 cr. ea.
Language 3-4	3
Jewish Studies	4
Science 1-2 (or 1a-2a)....	4 or 3
Major Courses	2 or 3
Phys. Ed. 3-4	½
² Hygiene 1;2 and/or Art 1 and Music 1	0-2

PROSPECTIVE TEACHERS (other than psychology-education majors)

Fifth Semester	Sixth Semester	Seventh Semester	Eighth Semester
*Psychology 1	*Psychology 16	*Education 21	Education 32 or 25
*Education 11	*Education 12	Education 51	Education 52
		Psychology 35 or 38	Psychology 13

JUNIOR YEAR

Students who are required to take Hygiene 1;2 and have not yet taken it should do so now. Students who have not yet met the social science requirement should do so now. **Bulletins giving more detailed information on the course of study in specific majors are available.**

¹ Premedical-pre dental majors should take chemistry as their first science.

² If not taken in the freshman 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 specific social sciences required are Economics 1 and History 2.
2. The foreign language requirement may be satisfied with one year of any one of the following languages: French, German, Greek, Latin, Russian, 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 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 or New York State College Proficiency Examination are excused from the language requirement.
3. All students must take at least the following science courses: Chemistry 1-2; Physics 1-2, 11a,12a, 13,14*; Mathematics 9-10 (or 1.1-2.1, 3.1, 4.1), 23-24, 33,34*; Drafting 1a-b**.
4. Students with superior records who receive the privilege of transferring to New York University School of Engineering and Science at the end of their junior year, as described below, are excused from the requirement of a fourth year of physical education and a fourth year of Jewish Studies.

Combination Plan for Pre-engineering Majors

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 devised by Yeshiva College and New York University School of Engineering and Science under which a student who attends Yeshiva College for three years and receives the recommendation of the Pre-engineering Coordinator is admitted by the NYU School as a junior. He attends NYU for one summer and two years, and qualifies for degrees at both Yeshiva College and NYU.

* Students transferring to NYU substitute the equivalent course there.

** Students planning to become aeronautical, chemical, or electrical engineers may be excused from drafting with the permission of the Pre-engineering Coordinator.

Yeshiva University confers the Bachelor of Science degree upon a student undertaking the Combination Plan at the successful completion of the fourth year of study, and NYU confers the appropriate engineering degree at the close of the program.

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

The Pre-engineering Coordinator at Yeshiva College coordinates the program and advises students. One year before the student plans to enter New York University School of Engineering and Science, Yeshiva College sends it a report on his record.

Program of Study

For the convenience of students the normal program of study for the Bachelor of Science degree is given below:

Freshman Year

English 1-2	3 cr. ea.
Chemistry 1-2	4
Jewish Studies	4
Phys. Ed. 1-2	½
Mathematics 1.1-2.1	3
Speech 1.1,2.1	2
Hygiene 1;2	1
	<hr/>
	17½

Sophomore Year

English 3-4	3 cr. ea.
Physics 1-2	4
Jewish Studies	4
Phys. Ed. 3-4	½
Mathematics 3.1,4.1	3
Drafting 1a-b	1½
Art 1; Music 1	1
	<hr/>
	17

Junior Year

Jewish Studies	0-4 cr. ea.
Phys. Ed. 5-6	½
Physics 11a,12a	4
Mathematics 23-24	3
Language	0-3
Economics 1; History 2	3
Electives	0-6
	<hr/>
	16½-17½

Senior Year

Jewish Studies	0-1 cr. ea.
Phys. Ed. 7-8	½
Physics 13,14	3
Mathematics 33,34	3
Electives	8-10
	<hr/>
	15½-16½

Notes

1. Students who enter Mathematics 9-10 continue with Mathematics 23-24 in the sophomore year. They should take 33,34 in the junior year and 27-28 (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 year are Physics 19 and 19L and Mathematics 35-36.
4. Engineering electives in the senior year may include the following, if the schedule allows:

Prospective field of engineering	Courses to be taken at NYU or elsewhere
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
	Principles of Electrical Eng. & Lab.
Mechanical	Principles of Electrical Eng. & Lab.
Metallurgical	Nature of Solid State, Metallographic Lab.

} Depending
on
Option

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

REGULATIONS

Students are responsible for the contents of this Catalog and for official notices on the bulletin boards on the ground floor of Furst Hall; the bulletin boards should be consulted daily.

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; such absences are regarded as interfering with the collective interest of the College. Generally a student's attendance record is taken into account whenever there may be occasion to determine his status in the University.

A record of each student's attendance in each class is kept. A statement should be filed with the Secretary of the Scholastic Standing Committee within 10 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.

Permission to register late in a course does not in itself excuse the student's absence from the classes already held. A student must file notes of excuse to cover the dates missed.

Students on probation must account for each absence and are subject to penalties for even one unexcused absence. For other students the penalty for each six periods of unexcused absences (with periods of lateness and of absence from laboratory counting as one-half) is a reduction of one credit in the credit value of the course. However, the Scholastic Standing Committee will not penalize students who at the end of a semester receive an A in the course, unless the instructor during the first week of sessions informs the students and the Committee that he wishes the usual penalties for excess absences to apply to everyone in the class.

If a class meets for 1½ periods a day, each absence counts as one and one-half; if a class meets for 2 periods a day, each absence counts as two.

Specifically, therefore, for 6-11 periods (not days) of unexcused absences one credit will be deducted; for 12-17 periods, two credits; for 18-23 periods, three credits.

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

Examinations

Once a student has taken a final examination, *no re-examination may be given*. No excuse—whether of illness, lack of preparation, or any other reason—will be accepted as grounds for a retest or an additional test. A makeup examination may be given only if a student is absent because of illness certified by a physician's note or some equally compelling cause. The fee charged each student for a makeup examination administered by the Office of the Dean is \$1.50 per hour.

A final 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 a final examination must be obtained from the Dean before the examination. Otherwise 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 is not counted against his record. The instructor of the course determines whether the test is to be waived or a makeup test given. If the absence is not of the above kind, the student's standing is to be determined by the instructor.

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

Cheating on an examination will subject the offender 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)	W	Withdrew without penalty
F	Failed		
G	Course dropped by student (failure)		

The mark of R is given in remedial courses when it is advisable that the student continue in the class.

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

Tentative Grades

Students are expected to take all tests and complete required course work during the semester, and are graded accordingly. Therefore, if at the end of the semester a student has not made up examinations he missed or has not submitted all required reports or has not completed all laboratory work, the instructor normally gives him a definite grade on the basis of the work done, with the work or examination missed averaged into the final grade as an F.

With the approval of the Dean, however, the instructor is permitted to give the student a tentative grade. The Dean may approve the giving of a tentative grade only in cases of illness certified by a physician's note or for other serious reasons acceptable to the Dean. Failure to complete all work because of the pressure of other requirements or commitments is an unacceptable excuse.

A student who believes that he has an acceptable excuse is to fill out a copy of Form T29YC, which he presents to the instructor for approval and then to the Office of the Dean.

A tentative grade becomes final on February 15 for the Fall Semester or on July 1 for the Spring Semester, unless the Office of the Registrar is informed by that date that the grade is to be changed.

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, the resulting figure 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 at other accredited American colleges and universities are 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 are included on the Dean's Honor List, which classifies 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

To receive honors at graduation, students must achieve the following cumulative averages: *cum laude*, 3.400; *magna cum laude*, 3.600; *summa cum laude*, 3.800. Higher averages may be required by the Scholastic Standing Committee of students who have taken fewer than 94 credits at Yeshiva College. Receipt of degrees with honors is not automatic; candidates must receive the approbation of both the faculty and the President. For *summa cum laude* candidates the approbation must be unanimous.

Dismissal for Disciplinary Reasons

Every student must consistently conduct himself in a manner that gives evidence of high-mindedness and seriousness of purpose. The University reserves the right to dismiss at any time any student who indicates a lapse in this regard or who for any reason is considered by the University not in sympathy with its ideals. A student in this category may be dismissed or asked to withdraw even though no specific charges are made against him.

Probation and Academic Dismissal

A student whose academic average for any semester falls below 2.0 is placed on probation. If his average falls below 2.0 two semesters in succession, or three semesters nonconsecutively, he receives an academic dismissal.

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

Students who are placed on probation may not take more than 12½ credits a semester nor participate in any extracurricular activities nor work for remuneration unless specifically permitted to do so by the Scholastic Standing Committee. They are required to attend all classes and College exercises. Such students may also be declared ineligible for financial assistance.

Probation serves as a serious warning to the student and his parents or guardian that his record is unsatisfactory and that significant improvement is expected. If such improvement does not occur in the semester during which the student is on probation, he is dropped from the College.

Honors Work

Superior students may request permission to do work outside of regular courses, culminating in the writing of a thesis, under the following conditions:

- A. The student must be a senior or, with special permission, a junior.
- B. His academic average generally and in his major must be at least 3.4.
- C. He must submit a written outline of independent work he plans to do leading to the writing of the thesis. The study and the paper based on it must have a unity of plan and be specific enough for a scientific report, and must represent distinguished work.
- D. The topic must be in his major; he must present evidence that regular courses are not available or do not suffice for his needs. The student must have completed at least 18 credits in the subject before doing honors work.
- E. Two credits are granted for honors work, and the paper must require at least the same amount of work required in a regular 2-credit course.
- F. The student must have a faculty sponsor under whose supervision he will work. This sponsor must be the senior professor of the subject or, in special cases, with the approval of the senior professor, another member of the staff. The student must also have the approval of the chairman of the appropriate division.

The required procedure is as follows:

1. At least two months before the end of the term previous to that during which the student plans to do his work, he must submit his request to the Office of the Registrar on Form P20. This form provides space for a description of the project and for the recommendations of the faculty

sponsor, Office of the Registrar, and chairman of the division. The faculty sponsor also lists the examinations, if any, he requires of the student in addition to the paper.

2. The Scholastic Standing Committee considers every application and must give its approval.
3. At the end of the semester the sponsor submits the student's thesis to the Office of the Dean together with the grade for the course and critical comments on the student's work. The paper is filed in the office, and the comments and grade are submitted to the committee for its information.
4. Honors work is listed on the student's record as "(Subject) 63."

Credits for Enrollment in Classes

The minimum number of credits required for enrollment in each class is as follows:

Class	Credits	Class	Credits
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, may 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 is registered as an upper senior. A student will not be graduated until he has obtained all the credits prescribed and all his indebtedness to the University has been discharged.

Programs

Work Load

The normal number of credits for a full semester's work is 15½ to 16½. A full-time student is defined as one who is enrolled for at least 12 credits during a semester.

Students on the Dean's List, and entering freshmen with superior records approved by the Dean of Admissions, may register for 17½ credits a semester, provided there is no objection from their religious studies division.

Students with averages between 2.0 and 3.4 may register for 17 credits a semester. In their senior year such students may register for 17½ credits a semester if in the judgment of the Registrar or the Dean the overload is justified.

Students whose averages are below 2.0 (or who go off probation with averages below 2.25) may register for only 12½ credits a semester unless they receive permission from the Scholastic Standing Committee for an increase.

Students who are employed may be required to limit their programs.

Summer Work

With permission of the Dean students may take up to 6 credits each summer without reduction of program the following year. However, no student may graduate with less than 8 semesters of college work, excluding summers; and at least 24 of the student's last 35 credits must be taken at Yeshiva College.

General

No credit is given for an elementary course taken after completing an advanced one. For example, no credit is given for French 01 or 02 if French 1 or any other higher-numbered French course was previously passed.

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

A student who fails a required course (including ½ and 1 credit courses) twice in succession may be dropped from the College.

No student may take any course at another school without written permission. Ordinarily permission is not granted to take courses in the student's major subject. Even with such permission at least 18 credits in the major subject must be taken at Yeshiva College.

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

Graduate Courses

College seniors with acceptable records are permitted to take graduate courses for undergraduate credit at Bernard Revel Graduate School, Harry Fischel School for Higher Jewish Studies, Graduate School of Education, and Belfer Graduate School of Science. 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 written permission is received from the senior professor of the major.

A student who wishes to register for a graduate course must fill out Form P3, available in the Office of the Registrar. It must be approved by the Dean of Yeshiva College and by the instructor of the graduate course and the chairman of the graduate department.

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

Students who have received permission to take graduate courses for undergraduate credit will not be allowed graduate credit for the courses later even if they do not need this credit for their undergraduate degree. Only students who originally requested graduate credit while still undergraduates and paid graduate tuition in addition to undergraduate charges will receive such credit.

Miscellaneous

Leaves of Absence and Maintenance of Registration

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 on Form M12 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 registration fee must be paid while a student is on leave (see Tuition and Fees, page 56). 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.

Honorable Dismissal

A student who is withdrawing from the University and does not expect to return at some future date should fill out Form M16 to request an honorable dismissal. (A student who plans to return at some future date should not fill out this form but should instead file a "Request for Leave of Absence," Form M12.) Completion of this form insures that the student's record will bear the notation that an honorable dismissal was granted. The term *honorable dismissal* refers only to character and does not attest to the quality of work done.

Records and Transcripts

A transcript is not issued for a student without his written request, except to another school or to a government agency. In these cases, transcripts

are issued upon the request of the school or agency. A transcript is not sent to an employer or prospective employer without the student's permission.

Records of students are sent out only in the form of a transcript. No partial records are 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 are changed if a satisfactory explanation for the request is presented in writing.

Students who believe that there is an error in a grade they have received must promptly call this to the attention of the Office of the Registrar. Even if there has been a mistake on the part of the University, no request for a correction will be entertained unless the student notifies the Office of the Registrar within three months of the date of issuance of the grade.

Diplomas

A duplicate diploma is issued upon payment of \$10. The diploma will bear the date of graduation, but its face will be marked: "This is a duplicate diploma, and was issued on (date)."

If an alumnus who has changed his name legally after graduation wishes a duplicate diploma, he will receive it with his changed name on the face, but a notation will be made on the back stating: "This diploma is issued in lieu of one originally issued to this person under the name of....."

Use of the University's Name

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

General

The University cannot transmit personal telephone messages to students except in dire emergency. Students should instruct their friends and family not to telephone them at the University.

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 Office of the Dean any other injury suffered on University 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.

If the instructor does not appear within 10 minutes of the starting time of a class, the class is to send a representative to the Office of the Dean for instructions. If the office is closed, the class is permitted to leave after 20 minutes.

STUDENT WELFARE AND ACTIVITIES

Housing

Undergraduates who do not live with their parents or relatives are expected to reside in the Residence Halls. Application forms for accommodations are included in the admission application.

The Leah and Joseph Rubin Residence Hall occupies an entire block at the south end of the Danciger Campus, 184th Street between Amsterdam Avenue and Laurel Hill Terrace. With its lounges, study halls, and Dining Room, it serves as the focus of student life.

In the fall of 1964 the University opened a new, eight-story Residence Hall at the north end of the Danciger Campus, on Amsterdam Avenue and 186th Street.

All students living in the Residence Halls are members of the Residence Hall Student Organization, a medium of self-government through which each student may realize greater benefits from his college experience and residence on campus. The Student Organization sponsors a variety of extra-curricular club programs, discussions, and lectures, together with a full schedule of religious activities: *Oneg Shabbat* and *Seudah Shlishit* programs with *zemirot* and guest speakers, informal classes in *Pirkei Avot* and Bible, weekend trips enabling students to experience hospitality with alumni families and synagogues in various parts of the city.

The Residence Hall Committee — consisting of a Student Council-appointed chairman, two executive members, and two representatives from each floor — is responsible for all activities of the Student Organization. Programs are supervised by the Residence Hall Director and Resident Assistants on each floor.

Health

Under the guidance of the University's Medical Director, health advice and consultation are available to students at all times.

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 it, even if the student is to be treated by physicians outside the University.

The infirmary is maintained on the ground floor of Rubin Residence Hall.

Guidance

The Guidance Center provides a wide range of services for all students, helping them solve academic and personal problems. The Guidance Coun-

selor gives special attention to testing, vocational guidance, and graduate study. Academic Counselors offer general guidance and assist with problems in academic work. Students residing in the dormitories are served by the Residence Hall Director and Resident Assistants. The Consultant Psychologist and a psychiatrist offer professional aid as needed. All members of the faculty have regular office hours for consultation with students. Incoming students are given a broad range of tests in aptitudes, intelligence, and vocational choice, and an orientation course (see page 94) helps in adjusting to college life and developing the skills needed for maximum achievement. For further information consult the *Guidance Bulletin*, available in the Guidance Center, Riets Hall.

Auxiliary Services

Students may 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 at 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 film forums which invite the participation of interested students.

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*, available on request.

Extracurricular Activities

Although all students at Yeshiva College follow a dual program of general and Jewish studies, many extracurricular activities are available. They are designed to afford means of self-expression and to integrate the varied aspects of Yeshiva College life informally through group and team activities. Only full-time students at the College (those taking 12 or more credits) are eligible to participate in extracurricular activities, except with special permission of the Dean.

Student Government The Student Council, composed of elected class representatives, is the chief body dealing with matters affecting students and their relationships with University authorities.

Athletics Athletic activities are designed to encourage the participation of every able-bodied student, whether in varsity sports or in the comprehensive intramural program. Varsity sports with intercollegiate schedules are wrestling, basketball, fencing, and tennis. 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 Metropolitan Association, Amateur Athletic Union of the United States.

Clubs A number of clubs, some inspired by classroom work, meet regularly during the school year. Among them are the Chemistry Club, French Club, History Club, International Relations Society, Literary Society, Mathematics Club, Physics Club, and Sociology Club. Six national honor fraternities have chapters at the College: the Gamma Delta chapter of Eta Sigma Phi gives recognition to students in the classical languages; the Alpha Omega chapter of Pi Delta Phi, in French; Psi Chi's chapter, in psychology; Tau Kappa Alpha's chapter, in debating; Pi Mu Epsilon's chapter, in mathematics; and Pi Gamma Mu's chapter, in the social sciences. The Debating Society and Chess Team participate in intercollegiate competition.

Cooperative Store Operated in part by students, the "Co-op" sells books, supplies, records, and electrical equipment at reduced rates.

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

Music In addition to offering the music courses listed in this Catalog, the University Music Department conducts several extracurricular activities. The instrumental and choral groups enable students to participate in musical programs, and a voice clinic provides individual vocal consultation. Facilities are available for piano practice, and other instruments — mainly violins — may be borrowed. The department's Music Library, containing books, music, and records, is open to those engaged in music study. Students may also use the facilities of the Cantorial Training Institute.

Publications The student newspaper is *The Commentator* and the yearbook is *Masmid*. *Kol* is the student literary magazine. One of the many club publications is the French Club's *Le Flambeau*, a journal concerned with French and Jewish culture. *Hamevaser* is the joint publication of the three Jewish programs for Yeshiva College students — the Rabbi Isaac Elchanan Theological Seminary, Teachers Institute for Men, and JSP. All are edited and published by the students themselves.

Sponsorship Every student organization and publication, except the Student Council and *The Commentator*, must have a faculty adviser.

Yeshiva College Alumni Association

Through June 1964, Yeshiva College granted 2,300 Bachelor of Arts degrees. Among its graduates are many distinguished leaders of the American Jewish community. The Yeshiva College Alumni Association enables graduates to maintain close relationships with fellow students and faculty members and to aid in the development of the College. Through meetings, dinners, and periodicals, members keep abreast of University affairs and share mutual professional interests.

The operations of the Yeshiva College Alumni Association and all other University alumni groups are coordinated by the Department of Alumni Activities, Yeshiva University, Amsterdam Avenue and 186th Street, New York, N. Y. 10033.

ADMISSION

Applications

Where to Apply All correspondence on matters of admission to Yeshiva College should be addressed to the Dean of Admissions, Yeshiva University, Amsterdam Avenue and 186th Street, New York, N. Y. 10033.

How to Apply Candidates for admission must file an application for admission, available from the Office of Admissions. They must also arrange to have a transcript of their high school record and their scores on the required tests of the College Entrance Examination Board (CEEB) forwarded to the Office of Admissions.

All applicants are required to report for an interview, given either at the University or by its representative in their 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 in the September following their graduation. (No regular freshman class is admitted in February.)

Early Decision Plan Action is normally taken on applications upon receipt of grades for the first half of the senior year. Under the Early Decision Plan, however, superior students may 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 CEEB. Students desiring an early decision should take the Scholastic Aptitude Test in May of their junior year or the following August and file their application by September of their senior year.

College Courses for High School Seniors Seniors at Yeshiva University High Schools with superior records are permitted to take one course at Yeshiva College for which they can later receive college credit if they do not use the course to meet high school requirements. Seniors of high attainments and superior preparation who are interested in such courses should fill out Form P3H, available from the Office of the Registrar.

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, 12½ are required, as follows:

ENGLISH (four years required)	4
MATHEMATICS (*college preparatory)	2½
FOREIGN LANGUAGE (two years of one language)	2
SOCIAL STUDIES (including American, European, or World History)	2
SCIENCE (General Science, Biology, Chemistry, or Physics)....	2

The remainder of the 16 units required for admission may be chosen from any college preparatory subjects, with no more than 1½ 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 for foreign students entering with a condition in American History.) The regulations concerning admission with conditions are available on request from the Dean of Admissions.

* College preparatory mathematics should include topics selected from algebra and geometry (demonstrative and analytic). 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.

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 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 all grades in English and the average of grades in Social Studies should each be at least C+ or the equivalent.

The Admissions Committee 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 supplement the high school grades in determining admission, and are also used for placement and guidance.

All candidates must take the Scholastic Aptitude Test, English Writing Sample, English Composition Test, Hebrew Achievement Test, and at least one other achievement test, any one the student wishes. (Pre-engineering students should take a test in mathematics. Students who have not attended a Jewish high school or have not studied Hebrew in high school are to substitute a different test for the one in Hebrew.)

The tests are given at various locations and at various times throughout the year. The College prefers that applicants take the Scholastic Aptitude Test and the English Writing Sample in December, and the English Composition Test and other achievement tests in January. Although these tests are normally given on Saturday, Sabbath-observing students may take them on Sunday. Those who live in or near New York are requested to take the tests at the University. Full information is available on request from the Dean of Admissions.

Students lacking some of the required CEEB tests may be admitted on a conditional basis. Such students must satisfy the condition by the end of the freshman year to be eligible to return for the sophomore year.

Other Requirements The Admissions Committee also considers the applicant's character, personality, and contributions to school life in deciding on his admission.

Admission with Advanced Standing

Transfer Students Applicants who have attended another college must satisfy the same requirements as applicants who come directly from high school, except that those who have completed 28 or more credits at another accredited college may be excused from taking the Achievement Tests of the

CEEB. Transfer candidates must be in good standing at their college, both in scholarship and character. No credit may be transferred if the course grade is below C or if the subject is technical or commercial or in any way not ordinarily classified as liberal arts. All evaluations of work done elsewhere are tentative and subject to re-evaluation on the basis of the student's later record at Yeshiva University. Transfer credits may be revoked, either in whole or in part, if subsequent work, either generally or in a particular subject, is not satisfactory.

Students who wish transfer credit for courses taken at other institutions must file official transcripts of record with the Office of the Registrar no later than the end of the semester following their admission to Yeshiva University or the semester following the one in which the courses were taken, whichever is later.

No credit toward the degree of Bachelor of Arts or Bachelor of Science is granted for rabbinical ordination. However, an applicant who has been ordained may, on the basis of an examination, be granted a maximum of 12 credits in Hebrew, 8 in Bible, and 6 in Jewish History.

Advanced Placement Program Freshmen of high attainments and superior secondary school preparation may qualify for advanced placement. 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 is 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 the Advanced Placement Examinations of the CEEB, 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 are submitted to the College instructors who teach the equivalent courses. The instructors 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 may be exempted from the courses. If the instructors desire, the exemption may be granted on the condition that the student take an advanced course in the College in the same subject. If a student has achieved a score of 3 or higher, the instructors

may authorize the granting of college credit equal to the credit value of the Yeshiva College course whose equivalent the student has completed, provided that this equivalent course was not used to meet requirements for graduation from high school. A student may be granted advanced placement in several subjects but will be given credit only for two.

These examinations are administered during the second week of May at centers throughout the country. Students who wish to take them must register not later than the first week of April. Application blanks and copies of the Bulletin of Information may be obtained by writing to:

Advanced Placement Examinations
College Entrance Examination Board
Box 592
Princeton, New Jersey 08540*

Advanced placement may also be granted to students who perform well on the examinations of the New York State College Proficiency Examination Program, which is similar to the advanced placement program of the CEEB. These examinations are given in the following subjects: American history, American literature, biology, chemistry, economics, educational psychology, European history, French, freshman English, German, Italian, mathematics, physics, Russian, Shakespeare, Spanish. For further information about this program write to:

College Proficiency Examination Program
New York State Education Department
Albany, New York 11224

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

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

* Students who live in the Western States should write instead to Box 1025, Berkeley, California 94701.

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 form entitled "Evaluation of Foreign Credentials," available on request from the Dean 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 cannot produce records) may be admitted if, in addition to performing well on the College Entrance Examination Board Tests, they also pass the High School Equivalency Examination administered by New York 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 is not acceptable for admission purposes. Students with such diplomas are required to pass the GED test, as described above.

CATEGORIES OF STUDENTS**Regular Students**

Students admitted with regular programs and working toward degrees are classified as Regular.

Provisional Students

Students admitted with conditions or who have been placed on probation because of poor academic records are classified as Provisional. Students admitted as Provisional are bound by any changes in degree requirements made prior to their attainment of Regular status. Students who do not make up their conditions within the time limits set by the Office of Admissions are not permitted to re-register.

Transient Students

Applicants who wish to enroll only for certain courses to meet their particular needs at other institutions, without pursuing a regular program leading to a degree, may be admitted as Transient students, with the permission of their home school. Normally students in this category may enroll for not more than a total of 9 credits.

Unclassified Students

Applicants whose records are not complete or have not yet been evaluated by the time of registration, but who seem to be qualified on the basis of the records available, may be allowed to register for courses as Unclassified students pending the filing or evaluation of their credentials. This status may be continued for a period not exceeding one semester. Such students enroll at their own risk, are treated as Provisional students, and may be dropped at any time if their complete records are not acceptable or are not available.

Irregular Students

Applicants who meet the quantitative requirements for entrance but not the qualitative requirements may be admitted as Irregular students. Such students are not recognized as degree candidates but are allowed credit for courses successfully completed.

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.

There is no category of "auditor." A student admitted under one of the above categories may be permitted to audit a class with the written permission of the instructor and the Dean. Such a student does not participate in class work and is not given examinations; he receives no grade and no record of his auditing is kept, so that no transcript can be issued nor any kind of credit or recognition given.

All students, regardless of their status, must meet all standards and comply with all regulations and requirements.

STUDENT FINANCES

TUITION AND FEES

Tuition	\$1,200.00 per year
University Registration Fee	65.00 per year
Dormitory Rental	450.00 per year
Dormitory Registration Fee	20.00 per year
Maintenance of Registration Fee	20.00 per semester
	35.00 per year
Student Activities Fee	10.00 per year
Applied Music Fee (individual instruction)	75.00 per semester
Laboratory Fees	
Chemistry 13,14, 13a,14a, 13b, 23,24	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
Re-examination Fee	3.00 per examination
Change of Program Fee	5.00 for all changes made at one time
Late Academic Registration Fee	5.00 per semester
Late Financial Registration Fee	5.00 per semester
Transcript of Record or Evaluation	1.00 each
Scholarship Application Fee	15.00
Graduation Fee	25.00

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

Part-time Students

Part-time students taking less than 7 credits a semester are charged \$40 a credit.

Payment Procedure

The total tuition and dormitory charges must be paid in advance for each semester. One-half of the total tuition and dormitory charge for the entire

academic year, exclusive of fees, is to be paid prior to completion of registration for the Fall Semester. The remaining one-half becomes payable on January 15. The University registration fee, dormitory registration fee, and other miscellaneous fees must be paid in full at the time of registration for the Fall Semester.

Tuition Plan, Inc. enables students to remit tuition and dormitory charges in eight equal installments at a cost of 4% of the total charge. Students may thus budget themselves and level out their expenses throughout the school year. This program also provides life insurance coverage for the parent, assuring the continuation of the student's education.

Withdrawal Procedure

Students who withdraw from the school with the written approval of the Dean no later than the last day to drop courses may receive a refund of 75% of their payment upon written application to the Office of Student Finances. Students who withdraw after that date are responsible for their tuition charge for the entire semester. Under no condition will charges other than tuition or dormitory rental be refunded.

Living Expenses

With the exception of tuition, fees, and dormitory rental, living expenses at the 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 Rubin Residence Hall are served cafeteria style.

Many students find jobs during summer vacations. Opportunities for employment and earning power usually increase as they progress through college. The income derived from such employment can help offset personal expenses during the school year. Students should bear in mind, however, that the dual curriculum severely limits the time available for part-time employment during the academic year.

FINANCIAL AID

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

Scholarships

Scholarship grants are available for deserving students. The basic criteria for any scholarship grant by the University are scholastic ability, character, and need as determined by an objective analysis of the applicant's financial position. Scholarships are granted for the academic year and are renewable annually.

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 almost 500 leading educational institutions. The Service evaluates the student's financial statement and makes an objective recommendation which assists the University in determining the amount of any scholarship grant.

Students seeking scholarship aid upon entering Yeshiva University are required to submit, in addition to the Application for Admission, an Application for Student Financial Assistance. This application consists of a formal application as well as a Parents Financial Statement. Forms are available from the Office of Student Finances or the Office of Admissions.

City, State, and National Scholarship Programs

Students planning to enter Yeshiva University may apply for scholarships granted by industrial corporations and government agencies. Awards are generally made on the basis of competitive examinations. Among these are: National Merit Scholarships; New York, New Jersey, and Rhode Island State Scholarships; Westinghouse Science Scholarships; General Motors College Plan; New York City Mayor's Committee on Scholastic Achievement; Philadelphia School System Scholarship.

Student Loans

Students should recognize and assume their share of the financial responsibility for a higher education. The ever-increasing college costs can be met only if all who benefit share the burden. For the things we need to fulfill and enrich our lives, payment over a period of time is not only justified but essential. More and more students, therefore, have been using loans to pay for their education out of future earnings.

National Defense Student Loan Program

The National Defense Student Loan Program was established by the National Defense Education Act of 1958 "to insure trained manpower of sufficient quality and quantity to meet the national defense needs of the United States." It provides for the creation of loan funds from which needy students may borrow up to \$5,000 during their entire course of study. Funds are made available to students under extremely liberal repayment terms to assist them with their educational expenses.

State-Guaranteed Student Loan Programs

A growing number of states have guaranteed loan programs for their residents, thereby making it easier and often less expensive for them to borrow for education.

Though these programs vary widely, all provide for long-term loans to be made directly to students. Loans under these programs are usually administered by commercial banking institutions. States that operate education loan programs include Connecticut, Indiana, Maine, Massachusetts, New Jersey, New York, North Dakota, Ohio, Rhode Island, Virginia, and Wyoming.

Students interested in state-guaranteed loan programs should contact their state education department for specific information concerning existing or proposed programs.

For complete information on scholarships and loans, consult the Office of Student Finances, Yeshiva University, Amsterdam Avenue and 186th Street, New York, N. Y. 10033.

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 that a certain course is taken. |
| 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 1 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 after its description; unless otherwise stated, 1 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. Not every course listed in the Catalog is offered every year; certain courses are given only once in two or three years. Courses offered during any specific semester, and their hours and room numbers, are listed in the *Schedule of Courses*, available at the Office of the Registrar.

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

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

1. 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).
2. 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).
3. 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

Qualified upperclassmen may receive permission to take the following course as an elective at Bernard Revel Graduate School:

SL 201-202 Elementary Arabic
2 credits each semester

ART

1 Introduction to Art

Development of an appreciation and understanding of the pictorial arts; 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

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

2 credits

Prerequisite: Art 1 or permission of the instructor

19 19th Century Art

Pictorial arts from about 1800 to the turn of the century; successive movements and ideologies in their social and cultural surroundings: neoclassicism, romanticism, realism, impressionism, postimpressionism.

2 credits

Prerequisite: Art 1 or permission of the instructor

20 20th Century Art

Contemporary movements: fauvism, cubism, futurism, dadaism, surrealism, non-objective art, abstract expressionism; emphasis on Picasso, Matisse, and Chagall.

2 credits

Prerequisite: Art 1 or permission of the instructor

22 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.

2 credits

Prerequisite: Art 1 or permission of the instructor

23 Art Criticism

Methods of analysis and interpretation applied to works of art; museum visits.

2 credits

Prerequisite: Art 1 or permission of the instructor

24 Jewish Contributions to Art

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

2 credits

Prerequisite: Art 1 or permission of the instructor

63 Honors

For the description of this course, see page 41.

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 Megillot | 6 Job |
| 3 Proverbs | 7 Isaiah |
| 4 Ezekiel and Hosea | 8 Daniel and Ezra-Nehemiah |

2 hours; 1 credit each semester

Prerequisite or corequisite: for Bible 1;2—Hebrew 1a-2a; for Bible 3 to 8—Hebrew 1-2

37,38 Aramaic

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

BIOLOGY

Major: Biology, 24 credits; Chemistry 1-2, Mathematics 1.1-2.1 (or 9-10).

Recommended: Chemistry 13a, Physics 1-2.

1-2 General Biology

Principles of biology; emphasis on forms selected from different plant and animal groups.

2 lecture, 1 recitation, and 3 laboratory hours; 4 credits each semester

1a-2a Biology for Non-Science Majors

Scientific methods and their applications to important problems of biology; human biology.

2 lecture and 2 laboratory hours; 3 credits each semester

11a-12a Comparative Vertebrate Embryology and Anatomy

Development and structure of the various systems of the vertebrates. Descriptive study is supplemented by experimental analysis of morphogenesis.

2 lecture and 4 laboratory hours; 4 credits each semester

Prerequisite: Biology 1-2

14 Genetics

Laws of heredity and variation; theory of the gene; origin of species; human genetics and eugenics. Laboratory work includes experiments with *Drosophila*, corn, *Neurospora*, and mice.

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

Prerequisite: Biology 1-2

15 Histology

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

2 lecture and 4 laboratory hours; 4 credits

Prerequisite: Biology 1-2

(16 Invertebrate Zoology)

2 lecture and 4 laboratory hours; 4 credits

Prerequisite: Biology 1-2

17 General Physiology

Principles of physiology necessary for the study of the organs and systems; 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.

2 lecture and 4 laboratory hours; 4 credits

Prerequisite: Biology 1-2. Knowledge of elementary chemistry and physics is desirable

(18 Vertebrate Physiology)

2 lecture and 4 laboratory hours; 4 credits

Prerequisite: Biology 17

(19 General Botany)

2 lecture and 4 laboratory hours; 4 credits

Prerequisite: Biology 1-2

(20 Plant Physiology)

2 lecture and 4 laboratory hours; 4 credits

Prerequisite: Biology 19

23,24 Microbiology

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

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

Prerequisite: Biology 1-2

25 Radioisotopes

Theory and detection of radioisotopes in biological experiments.

1 lecture and 3 laboratory hours; 3 credits

Prerequisite: Biology 1-2; Physics 1-2

63 Honors

For the description of this course, see page 41.

CHEMISTRY

Major: Chemistry 1-2, 11, 12, 13,14 (15,16 may be substituted for 14); Mathematics 3.1 (or 9-10), Physics 1-2.

Recommended: Mathematics 13. Although not required for the major, Physical Chemistry is a requirement for graduate courses in many institutions and students are strongly urged to take it.

1-2 Elementary Inorganic Chemistry

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

3 lecture and 3 laboratory hours; 4 credits each semester

Prerequisite or corequisite: Mathematics 1.1-2.1 (or 9-10)

1a-2a General Chemistry for Non-Science Majors

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 in biochemistry and physical chemistry.

Chemistry 2 (without credit) is required of students who have completed this course and desire to take advanced courses in chemistry.

3 lecture and 3 laboratory hours; 4 credits each semester

11 Advanced Inorganic Chemistry

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

3 lecture and 5 laboratory hours; 5 credits

Prerequisite: Chemistry 2

12 Quantitative Analysis

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

3 lecture and 5 laboratory hours; 5 credits

Prerequisite: Chemistry 11

13,14 Organic Chemistry

First semester: aliphatic compounds; second semester: aromatic compounds. In addition to organic synthesis, laboratory work includes elementary micro-quantitative analysis of carbon, nitrogen, and hydrogen.

3 lecture and 6 laboratory hours; 6 credits each semester

13a,14a Organic Chemistry for Biology and Premedical Students

2 lecture, 1 recitation, and 4 laboratory hours; 4 credits each semester

Prerequisite: Chemistry 11

13b Quantitative Organic Microanalysis

Quantitative determination of elements carbon and hydrogen by Pregl method, nitrogen by Kjeldahl and Dumas methods, sulfur and halogen by Pregl and Schoniger combustions; neutralization equivalents; inorganic residues.

1 lecture and 5 laboratory hours; 3 credits

Prerequisite: Chemistry 13a

Prerequisite or corequisite: Chemistry 14a

15,16 Physical Chemistry

General laws of physical chemistry.

3 credits each semester

Prerequisite: Chemistry 12, 13; Physics 1-2; Mathematics 3.1

15L,16L Experimental Physical Chemistry

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

19 Instrumental Analysis

Latest methods of analysis, utilizing the spectrophotometer, polarograph, glass electrode pH meter, Dubosq colorimeter, potentiometer, Abbe refractometer, polarimeter, and ion exchange columns.

1 lecture and 4 laboratory hours; 3 credits

Prerequisite: Chemistry 11, 12 or 13,14 or 13a,14a and permission of the instructor

(21;22 History of Chemistry)

Major discoveries in chemistry and the development of its basic theories.
2 credits each semester

Prerequisite: Chemistry 1-2

23,24 Qualitative Organic Analysis

Separation and identification of organic compounds by physical methods, including chromatographic procedures and infrared spectroscopy, and chemical methods utilizing solubility characteristics and class reactions; preparation of solid derivatives.

1 lecture and 3 laboratory hours; 2 credits each semester

Prerequisite: Chemistry 13 or 13a

63 Honors

For the description of this course, see page 41.

CLASSICAL LANGUAGES

Major: Latin, 2 years (not including 01-02); Greek, 2 years; 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 to 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.

3 credits each semester

Prerequisite: Greek 01-02

3-4 Advanced Course

Content varies with needs and interests of the class; may be taken for two or more successive years.

3 credits each semester

Prerequisite: Greek 1-2 or equivalent

63 Honors

For the description of this course, see page 41.

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.

3 credits each semester

Prerequisite: two years of high school Latin or Latin 01-02

3-4 Advanced Course

Content varies with needs and interests of the class; may be taken for two or more successive years.

3 credits each semester

Prerequisite: Latin 1-2 or equivalent

63 Honors

For the description of this course, see page 41.

Classics in Translation**11 Greek Tragedy**

Major works of the Greek tragedians in English translation.

3 credits

18a;b Greek Civilization

For the description of this course, see History 18a;b.

63 Honors

For the description of this course, see page 41.

DRAFTING**1a-b 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)

3 credits

Prerequisite: Drafting 1a-b

ECONOMICS

Major: Economics 1,2, 13;14, 45,46, and an additional 12 credits in Economics; any two of the following —(1) History 2 or 6 (2) Political Science 1 (3) Sociology 1.

Recommended: Mathematics 37,38, 39,40.

1,2 Economic Principles and Policies

First semester: supply and demand; the firm in perfectly and imperfectly competitive markets; contemporary economic problems; market determination of distribution of income to factors of production; international trade, theory and policy; second semester: national income accounting; income determination; fluctuations in aggregate economic activity; full employment; inflation; economic growth and development of backward areas.

3 credits each semester

13;14 History of Economics

First semester: continuity of economic thought from medieval times to the end of the 19th century; English classical doctrine and its variants; critical schools and reformists; second semester: logical and sociological components in the development of modern economic thought; neoclassicism; American institutionalism; qualitative economics; modern equilibrium school; Keynes and macroeconomics.

3 credits each semester

Prerequisite: Economics 2

16 History of European Capitalism

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

3 credits

Prerequisite: Economics 1

21 Demography

For the description of this course, see Sociology 11.

22 Labor Economics and Relations

Labor's place in the American economy; factors affecting supply and demand for labor; wage determination; unionism as a response to labor problems; public policy toward labor.

3 credits

Prerequisite: Economics 1

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.

3 credits

Prerequisite: Economics 1

26 Public Finance

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

3 credits

Prerequisite: Economics 1

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.

3 credits

Prerequisite: Economics 1

28 Business Cycles

Main factors responsible for fluctuations in income, output, and employment; leading business cycle theories as explanations of actual business behavior; the practical effectiveness of proposed remedies.

3 credits

Prerequisite: Economics 1

29 Money and Banking

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

3 credits

Prerequisite: Economics 1

32 Economic Analysis

Tools of economic analysis; means for measuring prices, level of employment, output, and income; appraisal and evaluation of analytical procedures.

3 credits

Prerequisite: Economics 1

35 Comparative Economic Systems

Price system, central planning, and 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.

3 credits

Prerequisite: Economics 1

36 The Economics of the Middle East

3 credits

Prerequisite: Economics 1

38 International Economics

Theory and current problems of international trade, tariffs, and commercial policy; balance of payments accounts; theory of foreign exchange; European Common Market; problems of international economic development and foreign aid.

3 credits

Prerequisite: Economics 1

45,46 Statistical Methods

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

63 Honors

For the description of this course, see page 41.

***EDUCATION**

****Psychology-Education Major:** Psychology 1, 13, 16, 36, 45, and either 35 (for prospective elementary school teachers) or 38 (for prospective junior or senior high school teachers); Education 11,12, 21, 51-52, and either 25 (for prospective elementary school teachers) or 32 (for prospective junior or senior high school teachers).

* Qualified upperclassmen may receive permission to take additional courses at the Graduate School of Education.

** Although completion of these courses satisfies College requirements, they do not meet minimum requirements for teaching certificates in most states since the dual program at Yeshiva College does not allow for student teaching, which is generally required for a teacher's license. Nevertheless all these courses are currently being accepted toward partial fulfillment of the requirements for teaching certificates in most states. Students planning to enter teaching must assume the responsibility for determining the requirements in their specific fields of specialization in the states of their choice.

11,12 History and Philosophy of Education

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

2 credits each semester

Prerequisite: History 1;2 or upper sophomore status

16 Psychology of Learning

For the description of this course, see Psychology 16.

21 Principles and Problems of Education

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

3 credits

Prerequisite or corequisite: Education 16

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

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

2 credits

Prerequisite: Education 21

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.

3 hours; 2 credits each semester

Prerequisite: Psychology 16 or permission of the instructor

63 Honors

For the description of this course, see page 41.

ENGLISH

Major: English, 24 credits (not including 1-2);
History 1;2, Philosophy 9-10.

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

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

3 credits each semester

Prerequisite: English 1-2

11;12 Shakespeare

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

3 credits each semester

Prerequisite: English 3-4

15;16 English Literature in the 17th Century

Men of letters and 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.

3 credits each semester

Prerequisite: English 3-4

17;18 English Literature in the 18th Century

Philosophy, poetry, and prose in the Age of Pope and the Age of Johnson.

3 credits each semester

Prerequisite: English 3-4

19;20 Romantic Poetry

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

3 credits each semester

Prerequisite: English 3-4

21;22 Victorian Poetry

First semester: Tennyson; second semester: Browning.

2 credits each semester

Prerequisite: English 3-4

23,24 Contemporary Literature

Literature of the 20th century, with emphasis on the more conspicuous literary schools and styles.

2 credits each semester

Prerequisite: English 3-4

25,26 American Literature

Development of American literature from its origins to 1900.

3 credits each semester

Prerequisite: English 3-4

27;28 19th Century Prose

Intellectual crosscurrents as expressed in romantic and Victorian prose; Wordsworth, Coleridge, Hazlitt; Carlyle, Macaulay, Mill, Arnold, Huxley, Ruskin, Pater, and others.

2 credits each semester

Prerequisite: English 3-4

29;30;31;32 World Literature

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

3 credits each semester

Prerequisite: English 1-2

33;34 The English Novel

History and development of the English novel, with an analysis of forms and techniques; first semester: Defoe to Scott; second semester: Dickens to Conrad.

3 credits each semester

Prerequisite: English 3-4

35;36 Chaucer

Chaucer's chief works, *The Canterbury Tales* and *Troilus and Criseyde*, emphasizing their literary rather than linguistic values.

2 credits each semester

Prerequisite: English 3-4

37 The Art of Poetry

Intentions and techniques of poetry through the intensive examination of selected works.

2 credits

Prerequisite: English 3-4 and permission of the instructor

38 The Art of Drama

Intentions and techniques of drama through the intensive examination of selected American, English, and Continental plays.

2 credits

Prerequisite: English 3-4 and permission of the instructor

41,42 Old English

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

2 credits each semester

Prerequisite: English 3-4

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 is helpful.

2 credits each semester

Prerequisite: English 3-4

46 Advanced Narration

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

2 credits

Prerequisite: English 1-2

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.

2 credits

Prerequisite: English 1-2

63 Honors

For the description of this course, see page 41.

FRENCH

Major: French, 24 credits (not including 01-02); 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. For students with no high school 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.

3 credits each semester

Prerequisite: two years of high school French or French 02. Students with three years of high school French may enter French 2 with permission of the instructor

3-4 Survey of French Literature

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

3 credits each semester

Prerequisite: French 2

11;12 Contemporary French Literature

First semester: Baudelaire, Verlaine, Mallarmé, Rimbaud, Bourget, France, Barres, Rolland, Gide, 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 in French.

3 credits each semester

Prerequisite: French 4 or permission of the instructor

13 Modern Drama

Drama of the romantic, realistic, and contemporary periods; the reading of representative plays; lectures, reports, and discussions in French.

3 credits

Prerequisite: French 4

14 The Modern Novel

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

3 credits

Prerequisite: French 4

18 The 18th Century in France

Early literary manifestations of a new spirit; influence of English thought; literature of the period of Voltaire; the *Encyclopedie* as a machine of war; literature of the period of Rousseau; the *Philosophes* and the French Revolution. Conducted in French.

3 credits

Prerequisite: French 3-4

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 in French.

3 credits

Prerequisite: French 4 or permission of the instructor

23 History of French Civilization

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

2 credits

Prerequisite: French 4

26;28;29 Studies in Individual Authors and Their Works

26 Moliere 28 Balzac 29 France

2 credits each semester

Prerequisite: French 3-4

63 Honors

For the description of this course, see page 41.

GERMAN**01-02 Elementary Course**

Essentials of grammar, elementary reading, and translation. For students with no high school German who wish to acquire a reading knowledge of the language.

3 credits each semester

07-08 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 high school German.

3 credits each semester

1-2 Intermediate Course

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

3 credits each semester

Prerequisite: two years of high school German or German 02

(3-4 Survey of German Literature)

Readings in the masterpieces of German literature.

3 credits each semester

Prerequisite: German 1-2

(11 Contemporary German Literature)

3 credits

Prerequisite: German 2

(13 The German Novel and Short Story of the 19th Century)

3 credits

Prerequisite: German 2

(14 German Lyrics and Ballads)

3 credits

Prerequisite: German 2

(15;16 German Drama)

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

3 credits each semester

Prerequisite: German 2

(21,22 Advanced Composition)

2 credits each semester

Prerequisite: German 2

25 through 28 Studies in Individual Authors and Their Works

25 Heine

27 Goethe

26 Thomas Mann

28 Goethe's *Faust*

(The letter "a" added to one of these course numbers indicates a modified course given for only 2 credits a semester.)

3 credits each semester

Prerequisite: German 2

63 Honors

For the description of this course, see page 41.

GREEK

(See Classical Languages)

***HEBREW**

Major: RIETS students: Hebrew 10, 13;14, and an additional 17 credits in Hebrew at Yeshiva College. TIM students: 24 credits in Hebrew at Teachers Institute for Men. The student should consult his adviser regarding the choice of foreign language; a recommendation will be made in light of the period of Hebrew literature in which the student is most interested.

Hebrew courses at Yeshiva College begin on the intermediate level; elementary courses are given in the Jewish Studies Program (see page 83).

1a-2a Intermediate Course I

Grammar, selected readings, and translation. For students with weaker preparation. After completing this course, students continue with Hebrew 3;4. *3 credits each semester*

Prerequisite: four years of high school Hebrew or Hebrew 03-04 in the Jewish Studies Program

1-2 Intermediate Course II

Intensive review of grammar; practice in composition and spoken Hebrew; readings in modern Hebrew literature. For students with stronger preparation. *3 credits each semester*

Prerequisite: four years of high school Hebrew or Hebrew 03-04 in the Jewish Studies Program

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.

3 credits each semester

Prerequisite: Hebrew 1-2 or equivalent

* Qualified upperclassmen may receive permission to take additional courses at Bernard Revel Graduate School.

9;10 Post-Biblical and Medieval Literature

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

Prerequisite: Hebrew 3;4 or equivalent

11 Modern Hebrew Prose

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

3 credits

Prerequisite: Hebrew 3;4 or equivalent

12 Modern Hebrew Poetry

Major poems of Bialik, Tschernichowsky, Yaakov Cohen, and Shneur.

3 credits

Prerequisite: Hebrew 3;4 or equivalent

13;14 Advanced Grammar and Composition

Hebrew syntax and grammar; varieties of construction and idioms; oral and written Hebrew, stressing contemporary usage; frequent exercises in composition and conversation.

2 credits each semester

Prerequisite: Hebrew 3;4 or equivalent

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 Fichman.

3 credits

Prerequisite: Hebrew 3;4 or equivalent

17 Contemporary Hebrew Prose

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

3 credits

Prerequisite: Hebrew 3;4 or equivalent

18 Contemporary Hebrew Poetry

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

3 credits

Prerequisite: Hebrew 3;4 or equivalent

19 Israeli Literature

Readings in current Hebrew literature, with emphasis on the works of Yizhar, Shamir, and Meged.

2 credits

Prerequisite: Hebrew 3;4 or equivalent

20 Hebrew Literature of the Enlightenment

The emergence of modern Hebrew literature; study of the major writers from 1780 to 1880 in light of the social and intellectual movements of the period.

2 credits

Prerequisite: Hebrew 3;4 or equivalent

28 through 31 Studies in Individual Authors and Their Works

28 Mendele

30 Agnon

29 Bialik

31 Ahad Ha'am

2 credits each semester

Prerequisite: Hebrew 3;4 or equivalent

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 to seniors at Teachers Institute for Men or Yeshiva College.

2 credits each semester

Prerequisite: Hebrew 3;4 at Yeshiva College or Hebrew 61-62 at Teachers Institute for Men

63 Honors

For the description of this course, see page 41.

91;92 History of Talmudic Literature

Major institutions, personalities, and literary works from the Babylonian exile through the Amoraic period; sources, structure, redaction, and interrelationship of the Mishnah, Tosefta, halakhic Midrashim, and Palestinian and Babylonian Talmuds.

2 credits each semester

Prerequisite: junior or senior status

Jewish Studies Program

The following courses are offered in the Jewish Studies Program for credit at 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.

(The letter "a" added to one of these course numbers indicates a modified course given in fewer hours for less credit.)

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 Teachers Institute for Men for credit at Yeshiva College. For a description of these courses, see the Catalog of Teachers Institute for Men.

HISTORY

Major: History 1;2 and an additional 24 credits in History (except for 79;80 and 81;82, courses numbered above 70 may not be counted toward the 30 credits required for the major); any two of the following—(1) Economics 1 (2) Philosophy 9-10 (3) Political Science 1 or 33 (4) Psychology 1 (5) Sociology 1.

1;2 History of Civilization

First semester: an outline of the cultural and material development of mankind from the dawn of history to 1650; second semester: evolution of the political, economic, social, and intellectual life of the world from the 17th century to the present.

3 credits each semester

5;6 Survey of United States History

The aspects of American history that have contributed to the shaping of American culture; 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

13;14 History of Economics

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

17a;b The Ancient Near East

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

2 credits each semester

Prerequisite: History 1;2

18a;b Greek Civilization

First semester: Hellenic civilization—major cultural achievements of the Greeks until Alexander the Great; second semester: Hellenistic civilization—political, social, and economic background; Hellenistic culture; synthesis of Hellenism and Judaism in Hellenistic Alexandria. (History 18 is the same course given in one semester for 3 credits.)

3 credits each semester

Prerequisite: History 1;2

19 Roman Civilization

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

3 credits

Prerequisite: History 1;2

20 Medieval Society

The transition from the ancient to the medieval world; growth and dissolution of medieval civilization; religious, political, and cultural currents.

3 credits

Prerequisite: History 1;2

21 The Renaissance and Reformation

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

3 credits

Prerequisite: History 1;2

(23 Europe in the 17th and 18th Centuries)

3 credits

Prerequisite: History 1;2

24 Europe from 1789 to 1848

3 credits

Prerequisite: History 1;2

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 World War I; second semester: the transition since 1914 from the European to the World Theater.

3 credits each semester

Prerequisite: History 2

29;30 English Political and Constitutional History

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.

3 credits each semester

Prerequisite: History 1;2 or Political Science 1

41;42 Intellectual History of Western Europe

Major trends in thought and ideology: religious, scientific, political, and economic; primary emphasis on the modern period.

3 credits each semester

Prerequisite: History 1;2

(51;52 The United States: Colonial Period and Revolution)

2 credits each semester

53 American Civilization in the National Period (1787-1828)

Formation of the American union; creation of American culture; political and economic developments; rise of democracy.

3 credits

Prerequisite: History 1;2

54 American Civilization in the Civil War Generation

Political, economic, social, and intellectual developments in the United States from 1828 to 1877, including westward expansion, social reform movements, religious trends, and the slavery issue.

3 credits

Prerequisite: History 1;2

55 American Civilization, Post-Civil War to World War I (1877-1920)

Industrialization as achievement and challenge; westward expansion and the beginning of world empire; religious, intellectual, and literary currents; the decline of *laissez faire*.

3 credits

Prerequisite: History 1;2

56 American Civilization Since 1920

The Depression, the New Deal, America's changing foreign policy, the Cold War decades; analysis of social and economic institutions, cultural and religious values.

3 credits

Prerequisite: History 1;2

57,58 Social and Intellectual History of the United States

Social and intellectual currents from the American Revolution to the present.
3 credits each semester

Prerequisite: History 5;6 or permission of the instructor

63 Honors

For the description of this course, see page 41.

Jewish History**71-72 Survey of Jewish History**

Jewish history from the Second Commonwealth to the beginnings of modern times.

3 credits each semester

77;78 Modern Jewish History

Beginnings of modern times in Jewish history; the march of emancipation; the struggle for equality, its achievements and reverses; economic, social, and cultural consequences.

2 credits each semester

79;80 American Jewish History

The Jews in the United States from earliest times to 1924, with emphasis on social, economic, and communal development, especially that of the Jewish community of New York. First semester: colonial times to the Civil War; second semester: Civil War to 1924.

2 credits each semester

81;82 Studies in American Jewish History

First semester: society, social life, the family, the home, and cultural activities such as the press, music, theater, and art; second semester: emphasis on Jewish education and religious movements.

2 credits each semester

85;86 Cultural Transformation

Cultural aspects of Jewish life since the beginnings of emancipation; traditional Jewish life before emancipation and the various stages of westernization; cultural impact and adjustment in such areas as religion, demography, family life, education, and group character; problems of survival.

2 credits each semester

91;92 History of Talmudic Literature

For the description of this course, see Hebrew 91;92.

Qualified upperclassmen may receive permission to take additional courses in Jewish history at Bernard Revel Graduate School.

HYGIENE**1;2 Personal and Community Hygiene**

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

1 credit each semester

LATIN

(See Classical Languages)

LIBRARY**1 Library Techniques**

Library resources and research methods.

2 hours; 1 credit

Prerequisite: junior or senior status

5;6 Basic Reference Books in Jewish Literature

A bibliographical guide to the reference sources and classics in Hebraica and Judaica; methods of uncovering data.

1 credit each semester

LINGUISTICS**105-106 Methods in Structural Linguistics**

Techniques and analysis of descriptive linguistics: phonetics, phonemics, morphology, and morphemics.

3 credits each semester

Prerequisite: junior or senior status

***MATHEMATICS**

Major: Mathematics, 27 credits including 23-24; Physics 1-2, unless another science is permitted by the senior professor.

Recommended: Physics 11,12 and 13,14.

Written permission is required for any course above 10.

1.1-2.1 Mathematical Analysis

Principles of college algebra, analytical geometry, and differential calculus.
3 credits each semester

3.1,4.1 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.

3 credits each semester

Prerequisite: Mathematics 1.1-2.1

9-10 Mathematical Analysis and Calculus

This course, covering the contents of Mathematics 1.1-2.1 and 3.1,4.1 in two semesters, is designed for students with superior preparation and ability.

4 credits each semester

Prerequisite: four years of high school mathematics or permission of the instructor

13 Differential Equations

Ordinary differential equations, with applications to problems in physics and geometry; equations in more than two variables; special problems.

3 credits

Prerequisite: Mathematics 4.1 or 10

* Qualified upperclassmen may receive permission to take additional courses in mathematics at Belfer Graduate School of Science.

15,16 Theory of Numbers

Properties of integers and methods of algebra and calculus available in their study.

3 credits each semester

Prerequisite or corequisite: Mathematics 23-24

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.

2 credits each semester

Prerequisite: Mathematics 4.1 or 10

19-20 Modern Algebra

Preliminary concepts; rings, integral domains, and fields; Peano's axioms; number fields; polynomials; groups; vector spaces; systems of linear equations; determinants; linear transformations and matrices.

3 credits each semester

Prerequisite: Mathematics 4.1 or 10

21-22 History of Mathematics

Development of mathematics from antiquity to the present.

2 credits each semester

Prerequisite: Mathematics 1.1-2.1

23-24 Advanced Calculus I

Real numbers; basic theorems on limits; continuity; differentiability and Riemann integrability for functions of one variable; infinite series; extension to functions of several variables; partial differentiation; multiple integration; allied topics.

3 credits each semester

Prerequisite: Mathematics 4.1 or 10

(25,26 Recreational Mathematics)**27-28 Theory of Functions**

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

3 credits each semester

Prerequisite: Mathematics 23-24

(31,32 Actuarial Mathematics)

33,34 Advanced Calculus II and Differential Equations

Improper integrals and other topics in integration; topics in vector analysis; ordinary differential equations: elementary methods, operational methods, series, successive approximations, existence and uniqueness theorems; partial differential equations: boundary and initial value problems, separation of variables, orthogonal expansions, convergence of series expansions — Fourier, etc.

3 credits each semester

Prerequisite: Mathematics 23-24; Mathematics 19-20 strongly recommended

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.

2 credits each semester

Prerequisite or corequisite: Mathematics 23-24

37,38 Mathematical Statistics

2 credits each semester

Prerequisite or corequisite: Mathematics 23-24

39,40 Probability

Sample spaces and formal probability functions; finite sample spaces, partitioned sampling and distribution problems; conditional probability, independence, Markov dependence; numerically valued sample spaces, distributions; limit theorems and laws of large numbers; random variables.

2 credits each semester

Prerequisite or corequisite: Mathematics 23-24

63 Honors

For the description of this course, see page 41.

MUSIC

Major: Music, 30 credits including such courses numbered 51-58 as may be prescribed by the Director of Music for the individual student. With the Director's permission, courses in allied subjects may be substituted for music courses.

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; elements of group leading. Some vocal experience is desirable but not required. Students may register for any four semesters in any order.

2 hours; 1 credit each semester

7,8 General Musicianship

Reading and sight singing; writing and playing simple melodies, rhythms, and harmonies. Some musical experience is desirable but not required.

2 credits each semester

9,10 Harmony I

Structural forces in music, predominantly harmony, taught through ear training; writing and playing of harmonic progressions in major and minor as occurring in simple folk songs.

2 credits each semester

Prerequisite: Music 7,8

11 Music From Antiquity to the Renaissance

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

2 credits

Prerequisite: Music 1 or permission of the instructor

12 Music in the Baroque and Classical Eras

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

2 credits

Prerequisite: Music 1 or permission of the instructor

13 Music in the Romantic Era

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

2 credits

Prerequisite: Music 1 or permission of the instructor

14 Music in the 20th Century

Avenues of musical development from the close of the 19th century to the present; 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, and Prokofiev.

2 credits

Prerequisite: Music 1 or permission of the instructor

15 Survey of Operatic Literature

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 und Isolde* and *Die Meistersinger*, Puccini's *La Boheme*, and Bizet's *Carmen*.

2 credits

Prerequisite: Music 1 or permission of the instructor

16,17 Harmony II

Modulation, alterations, dissonances, modes; cultivation of creativeness by inclusion of elements of form and counterpoint in improvisation and writing.

2 credits each semester

Prerequisite: Music 9,10

19,20 Voice Culture

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

2 credits each semester

Prerequisite: permission of the instructor

51 through 58 Applied Music

Credit is granted by Yeshiva College for instruction in applied music at the University: vocal or instrumental work arranged by the music department or cantorial studies taken at the Cantorial Training Institute. A maximum of 9 credits in applied music may be counted toward the Bachelor of Arts or Bachelor of Science degree, but not more than 3 credits may be transferred in any one semester.

1-3 credits each semester

Prerequisite: permission of the Director of Music

ORIENTATION**A Freshman Orientation**

Tours, demonstrations, lectures, and conference groups, at which typical freshman problems are considered; individual interviews to make possible more precise assistance.

1 hour; no credit

PHILOSOPHY

Major: Philosophy 9-10, 11, 12, 21, 31; Chemistry 1-2 (or 1a-2a) or Physics 1-2; also Mathematics 1.1-2.1 (or 9-10).

Recommended: History 1;2, Political Science 27; 28, Sociology 1.

9-10 Ancient and Medieval Philosophy

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

3 credits each semester

11 Modern Philosophy

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

3 credits

Prerequisite: Philosophy 9-10

12 Contemporary Philosophy

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

3 credits

Prerequisite: Philosophy 11

21 Logic and Scientific Method

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; analysis of various interpretations of history, nature of man, relation of ethics to politics, and historical functions of the state.

3 credits

Prerequisite: Philosophy 9-10, 11, 21

63 Honors

For the description of this course, see page 41.

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.

2 credits each semester

Prerequisite: junior or senior status or permission of the instructor

75,76 Topics in Jewish Philosophy

Selected philosophic topics, to be chosen from the following: religious tradition and philosophic investigation; God and divine attributes; the nature of man and human happiness; the individual and society; the nature of law.
2 credits each semester

Prerequisite: junior or senior status or permission of the instructor

77;78 Contemporary Jewish Philosophy

Contemporary philosophical issues analyzed in the light of traditional Jewish thought; works of modern Jewish philosophers which reflect these currents; contemporary Jewish intellectual issues; representative writings of modern Jewish orthodoxy.

2 credits each semester

Prerequisite or corequisite: Philosophy 71;72

79,80 Philosophic Treatises of Maimonides

Maimonides' philosophy as reflected in his shorter writings: *Treatise on Logic, Introduction to Commentary on the Mishnah, Shemonah Perakim, Introduction to Helek, Treatise Concerning Resurrection*; the relation of these treatises to the *Guide for the Perplexed*.

2 credits each semester

Prerequisite: junior or senior status or permission of the instructor

PHYSICAL EDUCATION

A course in physical education is required every semester of attendance. Students with physical defects and handicaps are not excused from physical education but 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 may choose from the activities listed below.

1 to 8 Physical Training**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 Medical Director required.
- C. Physical Fitness
Increased physical efficiency through graded exercises and activities.
- D. Swimming and Water Safety
Beginning, intermediate, and advanced instruction; Red Cross certification available; passing 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. Combative Sports
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
Heavy resistive exercise for body building.
- J. Fencing
Beginning, intermediate, and advanced instruction.
- K. Leadership in Physical Education
Development of leadership techniques in physical education activities.
2 hours; 1/2 credit each semester

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 laboratory hour; 1 credit each semester

***PHYSICS**

Major: Physics, 26 credits including 1-2, 9L,10L; Mathematics 1.1-2.1, 3.1,4.1 (or 9-10); Chemistry 1-2 (or 1a-2a) if one year of high school chemistry has not been taken. Students considering graduate work in physics should take as many as possible of the following—Chemistry 1-2, Mathematics 23-24, 35-36.

1-2 General Physics

General principles of statics, kinematics, hydrostatics, heat, sound, light, electricity, magnetism, and nuclear physics, with emphasis on laboratory work designed to help the student master these principles.

3 lectures and 3 laboratory hours; 4 credits each semester

Prerequisite or corequisite: Mathematics 1.1-2.1 or 9-10

9L,10L Intermediate Laboratory Course in Physics

Designed to prepare physics majors for advanced laboratory work in electricity, electronics, magnetism, optics, and modern physics, at the same time providing non-physics majors with a grounding in the techniques used in these areas; a varied choice of experiments.

4 laboratory hours; 2 credits each semester

Prerequisite: Physics 1-2

11,12 Analytical Mechanics

Statics: composition of forces; equilibrium of a particle and of rigid bodies. 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. Lagrangians; Hamiltonians; motion of rigid bodies; relativistic mechanics; normal coordinates.

3 credits each semester

Prerequisite: Physics 1-2, Mathematics 4.1 or 10

* Qualified upperclassmen may receive permission to take additional courses in physics at Belfer Graduate School of Science.

11a,12a Mechanics for Engineers

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

4 credits each semester

Prerequisite: Physics 1-2, Mathematics 4.1 or 10

13,14 Electricity and Magnetism

Electrostatics: electrical images, inversion, conjugate functions; direct currents; alternating currents; electrical resonance; Maxwell's equations; waves and radiation.

3 credits each semester

Prerequisite: Physics 1-2

15 Elements of Kinetic Theory and Thermodynamics

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

3 credits

Prerequisite: Physics 1-2, Mathematics 4.1 or 10

17 Light

Principles of geometric and physical optics; Huygens' principle; reflection, refraction, dispersion, interference, diffraction, and polarization of light; magneto-optics; electro-optics; optical instruments.

3 credits

Prerequisite: Physics 1-2, Mathematics 4.1 or 10

(17L Experimental Optics)

(18 Sound)

(18L Laboratory Course in Acoustics)

19-20 Review of Modern Physics

Elementary quantum mechanics, the special theory of relativity, atomic and nuclear structure.

3 credits each semester

Prerequisite: Physics 1-2, 11,12, 13,14

19L Laboratory Course in Modern Physics

Selected experiments in atomic and nuclear physics; emphasis on the fundamentals of nuclear measurements and on general technique.

2 credits

Prerequisite or corequisite: Physics 19

24 Electronics

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

2 credits

Prerequisite: Physics 1-2, Mathematics 4.1 or 10

25 Introduction to Theoretical Physics

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

3 credits

Prerequisite: Physics 11,12, Mathematics 4.1 or 10

Prerequisite or corequisite: Physics 13,14, Mathematics 13 or 23

29 Selected Topics in Mechanics

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

3 credits

Prerequisite: Physics 11,12, Mathematics 4.1 or 10

Prerequisite or corequisite: Mathematics 35-36

29L;30L Nuclear Physics Laboratory

Fundamentals of measurements of nuclear particles; measurements with G-M counters, proportional counters, scintillation detectors, and photographic plates; properties of alpha, beta, and gamma rays, neutrons and cosmic rays.
4 hours; 2 credits each semester

Prerequisite: Physics 1-2

63 Honors

For the description of this course, see page 41.

POLITICAL SCIENCE

Major: Political Science 1,2 and an additional 18 credits in Political Science; 12 credits chosen from the following, with the approval of the senior professor: Economics, History, Philosophy, Psychology, Sociology.

1 Introduction to American Government

Major institutions of American government; the relationship of these institutions to public opinion, political elites, minority groups, and political parties.
3 credits

2 Policies and Functions of American Government

Major functions of the national government and informal mechanisms through which policies relating to these functions are realized; interest-group formation and activities.

3 credits

Prerequisite or corequisite: Political Science 1

13 American Foreign Policy

Making, administering, and controlling foreign policy in the United States; analysis of major problems confronting the nation.
3 credits

18 Parties and Political Behavior

American political parties: history, organization, functions, and sources of support; the relationship between parties and pressure groups, and the influence both have on government policy.

3 credits

Prerequisite: Political Science 1,2

21-22 Constitutional Law of the United States

The Constitution of the United States as developed primarily by judicial interpretation; role of the judiciary in the political process.

3 credits each semester

Prerequisite: Political Science 1

25;26 History of Political Theory

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.

2 credits each semester

Prerequisite: one year of philosophy or political science

27;28 Jurisprudence

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

2 credits each semester

Prerequisite: one year of philosophy or political science

29;30 English Political and Constitutional History

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

31,32 Comparative Government

A comparative study 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 II; the government of the United States used as a basis of comparison and contrast.

3 credits each semester

Prerequisite: Political Science 1

33 International Relations

Theory of international politics in a nation-state system; bases of national power, such as geography, population, and resources; structure of interstate relations and the processes of war and diplomacy.

3 credits

34 International Law and Organizations

The growth of international law, development of international organizations, and role of law and the United Nations in the establishment of a stable and peaceful world order.

3 credits

Prerequisite: Political Science 1

41 State and Local Government

Role of state and local governments in the federal system, and their functions.

3 credits

Prerequisite: Political Science 1,2

42 Urban Politics

Political history of cities and suburbs; role of parties, bosses, elites, racial and religious minorities, and social classes in shaping local government policy; impact of the reform movement—its social bases, accomplishments, and failures.

3 credits

Prerequisite: Political Science 1,2

43 Politics and Morality

An interdisciplinary analysis of philosophical and halakhic responses to contemporary political problems.

3 credits

44 Public Administration

Government administration, with special emphasis on American national government; public bureaucracy and the politics of administration; contemporary theory of organization.

3 credits

Prerequisite: Political Science 1,2

45 Government and Politics of the Soviet Union

Political heritage of the Soviet Union, particularly the Tsarist autocracy; evolution of Marxism-Leninism; origin of the Soviets; the Communist party and the Third International; administrative apparatus and the "planned" economy of the state; social structure and the "cult of personality"; recent changes; Soviet federalism and nationality problems; Soviet foreign policy.

3 credits

Prerequisite: Political Science 1

46 Government and Politics in the Middle East

Political history and present governmental structures of Turkey, Iran, Pakistan, Syria, Lebanon, Israel, Jordan, Saudi Arabia, the United Arab Republic (Egypt), and the "Maghreb" countries. Socioeconomic problems of the area; legacy of Western colonialism; rise of Zionism and Arab nationalism; impact of World War II and Communist imperialism.

3 credits

Prerequisite: Political Science 1

63 Honors

For the description of this course, see page 41.

***PSYCHOLOGY**

Major: Psychology 1, 45, and an additional 18 credits in psychology; Mathematics 1.1-2.1. Students considering graduate work in psychology should take Psychology 13, 19,20, 39, 46, and French or German as their required language.

Recommended: Biology 1-2, Philosophy 9-10, Physics 1-2; Mathematics 3.1,4.1 (for those interested in experimental psychology) or Sociology 1, 44 (for those interested in clinical psychology).

1 General Psychology I

Basic facts and theories of a science of behavior: biological foundations, receptors and stimulation, conditioning, perception and motivation. Demonstrations and class experiments.

3 credits

2 General Psychology II

Emphasis on complex psychological processes: learning, problem solving, verbal behavior, frustration and conflict, personality and social behavior, applications of psychology. Demonstrations and class experiments.

3 credits

Prerequisite: Psychology 1

* Qualified upperclassmen may receive permission to take additional courses at the Graduate School of Education.

13 Tests and Measurements

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

3 credits

Prerequisite: Psychology 1, 45

15 Applied Psychology

Various areas in which principles of psychology have practical application: industry, business, education, advertising, communication; mass media and their effect on the individual.

3 credits

Prerequisite: Psychology 1

16 Psychology of Learning

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

3 credits

Prerequisite: Psychology 1

19,20 Experimental Psychology

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

1 lecture and 3 laboratory hours; 3 credits each semester

A laboratory fee is charged

Prerequisite or corequisite: Psychology 1

23 Abnormal Psychology

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

3 credits

Prerequisite: Psychology 1

25 Introduction to Clinical Psychology

History and background of clinical psychology; current research; functions and responsibilities of the clinical psychologist and related mental health personnel; introduction to psychodiagnostic and psychotherapeutic techniques; ethics of the profession.

2 credits

Prerequisite: Psychology 1

28 Sensory Psychology

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

3 credits

Prerequisite: Psychology 1

31 Psychology of Social Behavior

Psychology of group behavior as a function of developmental, motivational, and social processes; theories of social behavior.

3 credits

Prerequisite: Psychology 1

32 Physiological Psychology

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

3 credits

Prerequisite: Psychology 1

33 Psychology of Personality

Structure and dynamics of personality in the light of experimental evidence and theory.

3 credits

Prerequisite: Psychology 1

34 Comparative Psychology

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

3 credits

Prerequisite: Psychology 1

35 Childhood Development

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

2 credits

Prerequisite: Psychology 1

36 Psychology of Adjustment

Various psychological mechanisms used by individuals to resolve conflicts and to adjust to their situations, with illustrative case histories including references to the educational setting.

2 credits

Prerequisite: Psychology 1

38 Psychology of Adolescence and Youth

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

2 credits

Prerequisite: Psychology 1

39 Theories and Systems

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

3 credits

Prerequisite: Psychology 1

45,46 Statistical Methods

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

63 Honors

For the description of this course, see page 41.

RUSSIAN**07-08 Introduction to Scientific Russian**

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

3 credits each semester

SOCIOLOGY

Major: Sociology 1 and an additional 27 credits including at least one course from each of the following groups — (1) general courses: 11, 17, 18 (2) theory: 23;24 (3) Jewish sociology: 31, 32 (4) research methods: 44, 45,46 (5) urban-industrial society: 51, 52, 53, 54. Any two of the following: (1) Economics 1 (2) History 2 or 6 (3) Philosophy 21 or 9-10 (4) Political Science 1 (5) Psychology 1. Students considering graduate work in sociology should take French or German as their required language.

Recommended: 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

11 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 and theories; collection, analysis, and interpretation of demographic data.

3 credits

Prerequisite: Sociology 1

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.

3 credits

Prerequisite: Sociology 1

18 Criminology

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

3 credits

Prerequisite: Sociology 1

23;24 Sociological Theories

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

3 credits each semester

Prerequisite: Sociology 1

31 Sociology of the Jews

The Jewish problem in Diaspora since the emancipation; varieties of Jewish nationalism; forerunners of Zionism; history, structure, and parties of political Zionism; 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; agencies that deal with the educational, religious, and philanthropic needs of the community.

2 credits

36 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.

3 credits

Prerequisite: Sociology 1

37 Race and Culture

Concepts of race, culture, and personality; race differences; migration of peoples; contact and conflict situations; clash between tribal cultures and national civilizations; group prejudice.

2 credits

Prerequisite: Sociology 1 or permission of the instructor

38 Culture and Personality

The concept of culture and the relationship between personality and social structure in various cultures; breakdown of personality under conditions of cultural disorganization; formation of national character.

2 credits

Prerequisite: Psychology 1 or Sociology 1 or permission of the instructor

44 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.

3 credits

Prerequisite: Sociology 1

45,46 Statistical Methods

Fundamental statistical concepts and methods; measures of central tendency and variability; normal probability curve and its applications; correlation 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

51 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.

3 credits

Prerequisite: Sociology 1

52 Industrial Sociology

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

3 credits

Prerequisite: Sociology 1 and Economics 1 or Political Science 1 or permission of the instructor

53 Social Classes

Social stratification and social class systems; indicators of social position; class consciousness; power elite; bureaucracy; social mobility; influence of class subcultures on personality and styles of life; social classes in the United States.

3 credits

Prerequisite: Sociology 1

54 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.

3 credits

Prerequisite: Sociology 1

63 Honors

For the description of this course, see page 41.

SPANISH**01-02 Elementary Course**

Essentials of grammar, elementary reading, and translation. For students with no high school Spanish who wish to acquire a reading knowledge of the language.

3 credits each semester

1-2 Intermediate Course

Rapid review of grammar; exercises in reading, writing, and speaking Spanish; readings in contemporary Spanish literature: short stories and a major masterpiece.

3 credits each semester

Prerequisite: two years of high school Spanish or Spanish 01-02

3-4 Survey of Spanish Literature

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

3 credits each semester

Prerequisite: Spanish 1-2

SPEECH**C Speech Correction**

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

No credit

1.1 Fundamentals of Oral Communication

Basics of communication theory; semantics; parliamentary procedure; group discussion.

3 hours; 2 credits

2.1 Public Speaking

Theory and forms of public speaking, with opportunities for extemporaneous talks under critical supervision.

3 hours; 2 credits

Prerequisite: Speech 1.1

15 Voice and Diction for Future Teachers and Speakers

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

2 credits

Prerequisite: Speech 2.1

18 Advanced Public Speaking

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

2 credits

Prerequisite: Speech 2.1

30 Communication Theory in Mass Media

Basic principles of communication; the application of these principles to mass media such as newspapers, magazines, films, radio, and television.

2 credits

Prerequisite: English 1-2, Speech 1.1

SYRIAC

Qualified upperclassmen may receive permission to take the following course as an elective at Bernard Revel Graduate School:

SL 241-242 Elementary Syriac

2 credits each semester

YIDDISH**01-02 Elementary Course**

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

3 credits each semester

03-04 Readings in Yiddish Literature

Representative selections from the entire range of Yiddish literature, with some emphasis on the often neglected religious works.

3 credits each semester

Prerequisite: Yiddish 01-02 or a reading knowledge of Yiddish

PRIZES AND HONORS

YESHIVA COLLEGE

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

Bitzaron Prize for excellence in Hebrew.

Jacob Blackman Prize (given by Premo Pharmaceutical Laboratories, Inc.) to the graduating premedical student with the highest average in chemistry.

Professor Daniel Block Memorial Prize for excellence in mathematics.

Mushe Cohen Memorial Prize for excellence in Bible.

Professor Kenneth F. Damon Memorial Prize for excellence in debating and speech.

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.

Professor Bernard Floch Memorial Prize for excellence in classical languages.

Professor Jekuthiel Ginsburg Memorial Prize for excellence in mathematics.

Joseph Gunner Memorial Prize for excellence in mathematics.

Hamilton Watch Company Prize to the graduate who has most successfully combined proficiency in his science major with achievement in the social sciences or humanities.

Histadruth Ivrit Prize for excellence in Hebrew language and literature.

Jewish Academy of Arts and Sciences Prize to the graduate ranking highest in his college studies.

Benjamin Lebzelter Memorial Prize for excellence in Bible.

Samuel and Emily Granet Lemler Prize for excellence in premedical studies.

Professor Eli Levine Prize for excellence in chemistry.

Professor Arnold N. Lowan Memorial Prize for excellence in physics.

Professor Arnold N. Lowan Memorial Prize for the student showing the most promise of original research in mathematics or physics.

Professor Aaron M. Margalith Memorial Prize for excellence in political science.

Mutual Benevolent Society of 1865, Inc. Prize for excellence in biology.

Ya'akov Yehuda Nirenstein Prize for excellence in Hebrew.

Gertrude Nissenbaum Memorial Prize (given by Mr. and Mrs. Benjamin Nissenbaum in memory of their daughter) for excellence in mathematics.

Emile Offenbacher Memorial Prize for excellence in physical education.

Paul Orentlicher Memorial Prize (given by the Yeshiva College Alumni Association) for excellence in philosophy.

Norman Palefski Memorial Prize for excellence in safety education.

Jerome Robbins Memorial Prize (given by the Class of 1943) for the best original short story.

Bernard Sussman Memorial Prize for excellence in chemistry.

Meyer Terkel Memorial Prize for excellence in education.

Women's Branch of the Union of Orthodox Jewish Congregations of America Prize for excellence in Jewish studies.

Louis Werfel Memorial Prize (given by the Yeshiva College Alumni Association) to the highest ranking junior.

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:

Economics

Patriotic Service

French

Psychology

Leadership

Service and Devotion to the School

Music

JEWISH STUDIES PROGRAM

The following Commencement Prizes are granted annually to students selected by the faculty of the Jewish Studies Program for excellence in Jewish studies, character, and piety:

National Association of Men's Clubs of Yeshiva University Prize

Rubin and Rebecca Rabinowitz Memorial Prize (given by Samuel Zuckerman)

Rachel Wind Memorial Prize

YESHIVA UNIVERSITY

Yeshiva College seniors are eligible for the following University Prizes:

Mendel and Sarah Gottesman Memorial Fund Prize for scholarship, ethics, and character.

Irving R. Shull Memorial Prize (given by Brith Sholom) for achievement in human relations.

Rabbi Murray Tobias Memorial Prize (given by the Rabbinic Alumni) for character and piety.

YESHIVA UNIVERSITY SCHOOLS AND DIVISIONS

Undergraduate Schools

Yeshiva College for Men (1928)
(Main Center, Amsterdam Avenue and 186th Street, N. Y., LOrraine 8-8400) 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., 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 Institute for Men (1917)
(Main Center) trains Hebrew teachers and administrators; awards Hebrew Teacher's Diploma and Bachelor of Religious Education and Bachelor of Hebrew Literature degrees.

Teachers Institute for Women (1952)
(Midtown Center) trains Hebrew teachers; awards Hebrew 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 semicha (ordination).

Bernard Revel Graduate School (1937) (Main Center) offers graduate work in Jewish and Semitic studies; confers Master of Hebrew Literature, Master of Arts, Doctor of Hebrew Literature, and Doctor of Philosophy degrees.

Harry Fischel School for Higher Jewish Studies (1945) (Main Center) offers summer courses in Jewish and Semitic studies; awards Master of Arts, Doctor of Hebrew Literature, and Doctor of Philosophy degrees.

Cantorial Training Institute (1954) (Main Center) teaches traditional cantorial functions; awards Associate Cantor's Certificate and Cantorial Diploma.

Albert Einstein College of Medicine (1955) (Bronx Center, Eastchester Road and Morris Park Avenue, 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, cell biology, genetics, microbiology, immunology, molecular biology, pathology, pharmacology, and physiology; awards Doctor of Philosophy degree.

Wurzweiler School of Social Work (1957) (Graduate Center, 110 West 57th Street, N. Y., JUDson 2-5260) offers graduate programs in social group work and casework; grants Master of Social Work degree.

Graduate School of Education (1957) (Graduate Center) offers programs in elementary and secondary education; administration and supervision; psychology (clinical, educational, experimental, school, personality and social); religious education; guidance; therapeutic education; social sciences (history, government, and sociology); special education; and language, speech, and communication; grants Master of Religious Education, Master of Science, Master of Arts, Specialist's Certificate, Doctor of Education, and Doctor of Philosophy degrees.

Belfer Graduate School of Science (1958) (Main Center) offers programs in mathematics, physics, and mathematics and science education; confers Master of Science, Master of Arts, and Doctor of Philosophy degrees.

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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, N. Y. 10019 (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.

