

RAYMOND AND BEVERLY SACKLER FACULTY OF EXACT SCIENCES

The average length of time of the M.Sc. program is two academic years.

0351 School of Chemistry

Graduate studies include both, course work (28 semester-hours) and research under the supervision of a faculty member. There are five main fields of specialization: electrochemistry, organic chemistry, physical chemistry, chemical physics, and material science.

Admission Requirements

The Admissions Committee will only consider candidates with a B.Sc. in chemistry or a comparable field, with a grade average of 75, or higher. In special instances, a candidate who has passed certain courses required by the Curriculum Committee, may be accepted.

0341 Department of Geophysics and Planetary Sciences¹

Graduate studies are offered in Geophysics and Geology, Atmospheric Sciences, and Planetary and Space Sciences.

The department offers courses emphasizing various physical phenomena and the mathematical models describing them. These include courses in seismology, gravity and magnetics, applied geology, tectonics, hydrology, climate, cloud and precipitation physics, aerosol science, atmospheric radiation, atmospheric dynamics, physics and chemistry of planetary atmospheres, magnetosphere physics, physics of comets and planets, and various courses in space physics.

Admission Requirements

¹ Applicants are requested to indicate their special interest on their application form.

The M.Sc. program accepts applications from those holding a B.Sc. in atmospheric sciences, earth sciences, applied mathematics, physics or related fields with a minimum grade of 75.

School of Mathematical Sciences

Graduate Studies are offered in four areas:

- 0366 Pure Mathematics¹
- 0372 Applied Mathematics²
- 0373 Operations Research
- 0374 Probability and Statistics
- 0363 Applied Statistics

The Pure Mathematics program emphasizes topics of modern interest such as number theory, combinatorics, algebra, analysis etc.

The program in Applied Mathematics concentrates on classical computation problems and on mathematics applications in high tech and biology.

The programs in Applied Statistics, Operations Research, Probability and Statistics broaden the student's knowledge of theoretical and applied statistics, operations research, probability theory, game theory and mathematical economics. A new program is now being offered in Applied Statistics with emphasis in Biostatistics.

Applicants to the M.Sc. tracks in Statistics or Operations Research should have an appropriate B.Sc. with a minimum grade average of 75. The Admissions Committee may impose additional requirements for admission as regular students.

Admission Requirements

To apply for the M.Sc. tracks in Mathematics, the student should have a B.Sc. in Mathematics with a minimum grade average of 80. Under special circumstances, candidates with a grade average of 70-80 or candidates with a B.Sc. in other subjects and with high grades may also be admitted conditionally. The

¹ In addition to students holding a B.Sc. in Mathematics, students holding other degrees may apply.

² Applicants are requested to indicate their special interest on their application form.

Admissions Committee will impose additional requirements on such students before admitting them to the regular program.

0368 School of Computer Sciences

To apply for the M.Sc. degree in Computer Science, the student should have a B.Sc. in Computer Science with a minimum grade average of 80. Candidates with a B.Sc. in related subjects, e.g. the Exact Sciences or Engineering, with good grades, may study for a diploma ('Limudey Teuda') in Computer Science. Students who complete this program with a minimum grade average of 85 may apply to the M.Sc. track.

0321 School of Physics and Astronomy

Graduate studies and research, both theoretical and experimental, are offered in Astronomy and Astrophysics, Condensed Matter Physics, Medical Physics and Material Sciences, Neural Networks and Complex Systems, and Particles and Fields.

As the program for the M.Sc. requires approximately four semesters for completion, we recommend to take a minimum of five courses during the first year of study. Students must participate in 9/10 semester courses (including lectures, tutorials, laboratory sessions, and seminars) and submit a written thesis on a research problem.

Admission Requirements

Applicants to graduate studies in Physics must have a minimum grade point average of 85 in Physics or a closely-related field. Admissions Committee will interview the candidates with grade point averages between 80 and 85 and will decide regarding the acceptance. The committee may impose special requirements on students that must be fulfilled during the course of study.

Students who have completed with distinction both their undergraduate studies and their first year of graduate studies are eligible for a program of direct studies towards the Ph.D. degree, as specified in the guidelines for research students.