

RAYMOND AND BEVERLY SACKLER FACULTY OF EXACT SCIENCES

The average length of time of the M.Sc. and PhD programs are two and four academic years respectively.

0351 School of Chemistry - Graduate Studies (M.Sc. and Ph.D.)

Graduate studies include both, course work (28 semester-hours for M.Sc. and 18 semester hours for Ph.D.) and research under the supervision of a faculty member. Fields of specialization: Bioorganic Chemistry, Natural Products Chemistry, Drug Delivery, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Organometallic Chemistry and Catalysis, Fast Processes, Laser Chemistry, Computational Chemistry, Chemical Physics, Material Science, Nanochemistry, Nanotechnology and Molecular Electronics, Chemical and Biological Sensing, Green Chemistry, NMR and MRI Solid State-NMR, Single Molecule-Spectroscopy and more.

Admission Requirements for graduate studies:

The Admissions Committee will only consider candidates with a B.Sc. in Chemistry or a comparable field, with a grade average of 80, or higher. In special instances, a candidate who has passed certain courses required by the Curriculum Committee, may be accepted.

0341 Department of Geophysics, Atmospheric 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.

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

Admission Requirements

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 80.

Raymond and Beverly Sackler School of Mathematical Sciences

Graduate Studies are offered in six tracks:

- 0366 Pure Mathematics²
- 0372 Applied Mathematics³
- 0373 Operations Research
- 0374 Probability and Statistics
- 0363 Applied Statistics
- 0377 Biostatistics

Applicants to the M.Sc programs should have an appropriate B.Sc. with good average grade.

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 and Biostatistics broaden the student's knowledge of theoretical and applied statistics, operations research, probability theory, game theory and mathematical economics.

0368 The Blavatnik 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 84. Candidates with a B.Sc. in related subjects, e.g. the Exact Sciences or Engineering, with good grades, may apply to a special track of basic courses in Computer Science and then apply for M.Sc. degree studies. There is also the option

² In addition to students holding a B.Sc. in Mathematics, students holding other degrees may apply.

³ Applicants are requested to indicate their special interest on their application form.

of diploma ('Limudey Teuda') in Computer Science which provides basic knowledge of the subject.

0321 Raymond and Beverly Sackler School of Physics and Astronomy

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

As the program for the M.Sc. requires 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 84 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.

For more information:

[http://www.tau.ac.il/exact_sciences/site/yedion/physics/
2nd_degree.doc](http://www.tau.ac.il/exact_sciences/site/yedion/physics/2nd_degree.doc)