

Archimedes Program – Earn Academic Credits During High School!

To register for the program: ch.youthpro@technion.ac.il

The Technion's Faculty of Chemistry is opening its doors to high school students for the 2024–2025 academic year. This program was established to bring students with keen interest in scientific subjects closer to scientific research. The Archimedes program enables participants to earn academic credits toward an advanced degree in chemistry while still in high school.

Program Objective

The **Archimedes** program allows students to accumulate up to 30 academic credits over three years (grades 10–12). These credits are part of the Technion's undergraduate core chemistry courses and are reserved for students for five years after registration, not including mandatory military or national service.

Students achieving high performance in this program significantly enhance their chances of being admitted as full-time students to the most prestigious programs at the Technion.

Acceptance in the program is not based on prior achievements but on passing a placement test with a score of 80 or above after the first four lectures of the "Introduction to Chemistry" course.

Curriculum

In the 2024–2025 academic year, students will be offered three courses totaling 11 credits:

1. Introduction to Chemistry
2. Lab in Introduction to Chemistry

3. Organic Chemistry

In the following academic year:

1. Inorganic Chemistry
2. Analytical Chemistry

Students in the Archimedes program can also integrate into the Ministry of Education's "**Academy in High School**" program. Success in the first-year Archimedes program (earning a grade of 65 or above) and completing additional courses qualifies students for high school.

Matriculation credit conversion according to the table below:

Course Name	Technion Credits	Bagrut Exam Code	Course Code	Weight (%)
Introduction to Chemistry	5	037381	124120	30
Organic Chemistry I	5	037283	124708	25
Inorganic Chemistry	2.5	037283	124305	30
Lab in Introduction to Chemistry	1	037388	124122	15

Grades from these courses are transferred through the Archimedes managers to the Ministry of Education for inclusion in students' matriculation scores, with an added 20% bonus for qualifying participants.

Program Process

1. Identification: Up to 250 suitable students from high schools are identified in collaboration with schools at the end of summer vacation.
2. Trial Month: Students participate in a free trial month, studying and taking exams. From this, 50 candidates are selected for the program.
3. Classes are held on Fridays over six semesters. Lab courses occur mid-semester on weekdays.
4. Semester Exams: Students take exams- The passing grade is 65.

Inclusivity and Support

The program upholds equality for all students regardless of economic background. Tuition is subsidized (6,000 NIS per year), and scholarships are available based on financial need and academic excellence.

Achievements and Opportunities

Archimedes alumni have achieved remarkable success, with many being recruited into elite military research units or pursuing higher education in various fields. Additionally, program participants successfully compete in the Chem-Olympiad and represent Israel in international chemistry competitions.

Contact and Registration

Youth Activities Coordinator

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Program Website: <https://archimedes.technion.ac.il>