Mathematics

Graduates of the Mathematics major at Haigazian University receive the Bachelor of Science (B.S.) degree.

Students who complete the degree in Mathematics should be able to:
- Understand the role of axioms or assumptions and the basic rules of logic.
- Abstract general principles from examples.
- Analyze, model, and solve computational problems.
- Recognize which real-world problems are subject to mathematical reasoning.
- Formulate a mathematical statement precisely and write a coherent proof.
- Teach mathematics for high school students.
- Continue in graduate studies and conduct research in different fields of mathematics.

The Department of Mathematics offers the degree of Bachelor of Science (B.S.). In addition to the general university requirements, the Mathematics Department requires a minimum of 39 credits in mathematics, 12 credits in computer science, 7 credits in physics, and 6 credits in economics. All students majoring in mathematics must pass MAT 201 and MAT 202 with a minimum grade of 70.

Note : For a Normal Diploma (Teaching Diploma), all diploma requirements must be met. Total 200-level courses taken for the B.S. degree and the Normal Diploma should add up to 112 credits.

General Education (30 cr.)
Core requirements for all HU students are listed on page 58.

Core Requirements (27 cr.)
MAT 201	Calculus and Analytic Geometry III	3 cr.
MAT 202	Differential Equations	3 cr.
MAT 209	Fundamentals of Mathematics	3 cr.
MAT 213	Topics in Geometry	3 cr.
MAT 219	Linear Algebra I	3 cr.
MAT 223	Advanced Calculus I	3 cr.
MAT 227	Introduction to Complex Variables	3 cr.
MAT 233	Probability and Statistics for the Sciences	3 cr.
MAT 241	Abstract Algebra I	3 cr.

Elective Courses (12 cr.)
Four mathematics courses in the Department.

Computer Science Requirements (12 cr.)

CSC 202	Computer Programming	3 cr.
CSC 204	Advanced Computer Programming & Data	3 cr.
Two elective courses from Computer Science		6 cr.

Physics Requirements (7 cr.)

PHY 211	Electricity and Magnetism	3 cr.
PHY 213	Electricity and Magnetism Lab	1 cr.
PHY 217	Mechanics	3 cr.

Economics Requirements (6 cr.)

ECO 201	Microeconomic Principles	3 cr.
ECO 202	Macroeconomic Principles	3 cr.