

List of classes (2025)

Master's Course

<Department of Mathematics>

Course title
Introduction to Mathematics A
Introduction to Mathematics B
Advanced Algebra A
Advanced Algebra B
Advanced Algebra C
Advanced Algebra D
Advanced Geometry A
Advanced Geometry B
Advanced Geometry C
Advanced Geometry D
Advanced Analysis A
Advanced Analysis B
Advanced Analysis C
Advanced Analysis D
Statistical Analysis A
Statistical Analysis B
Statistical Analysis C
Mathematical Logic
Stochastic Processes
Mathematical Sciences A
Mathematical Sciences B
Mathematical Sciences C
Selected Topics in Mathematical Structures A
Selected Topics in Mathematical Structures B
Selected Topics in Geometric Structures A
Selected Topics in Geometric Structures B
Selected Topics in Analysis A
Selected Topics in Analysis B
Exercises in Probability and Statistics 1
Exercises in Probability and Statistics 2
Exercises in Mathematical Structures 1
Exercises in Mathematical Structures 2
Exercises in Mathematical Analysis 1
Exercises in Mathematical Analysis 2

Exercises in Geometric Structures 1
Exercises in Geometric Structures 2
International Research 1
International Research 2
Graduate Research 1A
Graduate Research 1B
Graduate Research 2A
Graduate Research 2B
Selected Topics in Probability and Statistics A
Selected Topics in Probability and Statistics B
Mathematical Analysis A
Mathematical Analysis B
Applied Mathematical Science A
Applied Mathematical Science B
Applied Mathematical Science C
Frontiers in Science A (Mathematics)
Frontiers in Science A (Physics)
Frontiers in Science A (Chemistry)
Frontiers in Science A (Biology)
Frontiers in Science A (Geosciences)
Frontiers in Science A (Biological Chemistry)
Frontiers in Science B (Mathematics)
Frontiers in Science B (Physics)
Frontiers in Science B (Chemistry)
Frontiers in Science B (Biology)
Frontiers in Science B (Geosciences)
Frontiers in Science B (Biological Chemistry)

<Department of Physics>

Course title
Graduate Seminar 1A
Graduate Seminar 1B
Graduate Seminar 2A
Graduate Seminar 2B
Graduate Research 1A
Graduate Research 1B
Graduate Research 2A
Graduate Research 2B
Quantum Field Theory
Fluid Mechanics for Astrophysics
Relativistic Theory of Gravitation 1
Nuclear Physics 1
High Energy Physics 1
Cosmic Ray Physics A
Experimental Physics of Cosmic-rays and Elementary Particles A
Experimental Physics of Cosmic-rays and Elementary Particles B
Astrophysics
Low Temperature Physics
Low Temperature Solid State Physics
Mathematical Physics A
Mathematical Physics C
Quantum Field Theory and String Theory 1
Computational Science
Advanced Lecture on Astronomy 1
Space and Planetary Science
Magnetism 1
Theory of Condensed Matter 1
Advanced Lecture on Optical Properties of Condensed Matter 1
Theory of Elementary Particles
Relativistic Theory of Gravitation 2
Relativistic Astrophysics
Nuclear Physics 2
High Energy Physics 2
Cosmic Ray Physics B
Experimental Physics of Gravitational Waves
Quantum Statistical Physics A
Quantum Statistical Physics B

Atomic Physics
Mathematical Physics B
Mathematical Physics D
Quantum Field Theory and String Theory 2
Advanced Lecture on Astronomy 2
Structure of Solid
Magnetism 2
Theory of Condensed Matter 2
Bio-photophysics
International Advanced Research Course 1
International Advanced Research Course 2
Selected Topics in Fundamental Physics 1 MA
Selected Topics in Fundamental Physics 1 MB
Selected Topics in Fundamental Physics 2 MA
Selected Topics in Fundamental Physics 2 MB
Selected Topics in Astro and High Energy Physics 1 MA
Selected Topics in Astro and High Energy Physics 1 MB
Selected Topics in Astro and High Energy Physics 2 MA
Selected Topics in Astro and High Energy Physics 2 MB
Selected Topics in Astro and High Energy Physics 3 MA
Selected Topics in Astro and High Energy Physics 3 MB
Selected Topics in Solid State Physics 1 MA
Selected Topics in Solid State Physics 1 MB
Selected Topics in Solid State Physics 2 MA
Selected Topics in Solid State Physics 2 MB
Selected Topics in Solid State Physics 3 MA
Selected Topics in Solid State Physics 3 MB
Selected Topics in Solid State Physics 4 MA
Selected Topics in Solid State Physics 4 MB
Photofunctional Properties of Condensed Matter
Advanced Lecture on Optical Properties of Condensed Matter
Frontiers in Science A (Mathematics)
Frontiers in Science A (Physics)
Frontiers in Science A (Chemistry)
Frontiers in Science A (Biology)
Frontiers in Science A (Geosciences)
Frontiers in Science A (Biological Chemistry)
Frontiers in Science B (Mathematics)
Frontiers in Science B (Physics)

Frontiers in Science B (Chemistry)
Frontiers in Science B (Biology)
Frontiers in Science B (Geosciences)
Frontiers in Science B (Biological Chemistry)

<Department of Chemistry>

Course title
Research Proposal Seminar
Graduate Research in Chemistry 1A
Graduate Research in Chemistry 1B
Graduate Research in Chemistry 2A
Graduate Research in Chemistry 2B
Graduate Seminar in Chemistry 1A
Graduate Seminar in Chemistry 1B
Graduate Seminar in Chemistry 2A
Graduate Seminar in Chemistry 2B
Advanced Quantum Chemistry A
Advanced Quantum Chemistry B
Advanced Physical Chemistry A
Advanced Physical Chemistry B
Advanced Organometallic Chemistry
Advanced Organic Chemistry
Advanced Topics in Chemistry A
Advanced Topics in Chemistry B
Advanced Topics in Chemistry C
Advanced Topics in Chemistry D
Advanced Topics in Chemistry E
Advanced Topics in Chemistry F
Advanced Topics in Chemistry G
Advanced Topics in Chemistry H
Graduate Research Overseas 1
Graduate Research Overseas 2
Advance Inorganic Chemistry
Advance Functional Molecular Chemistry
Frontiers in Science A (Mathematics)
Frontiers in Science A (Physics)
Frontiers in Science A (Chemistry)
Frontiers in Science A (Biology)
Frontiers in Science A (Geosciences)
Frontiers in Science A (Biological Chemistry)
Frontiers in Science B (Mathematics)
Frontiers in Science B (Physics)
Frontiers in Science B (Chemistry)
Frontiers in Science B (Biology)

Frontiers in Science B (Geosciences)
Frontiers in Science B (Biological Chemistry)

<Department of Biology>

Course title
Advanced Functional and Analytical Biology A
Advanced Functional and Analytical Biology B
Advanced Functional and Analytical Biology C
Advanced Functional and Analytical Biology D
Advanced Functional and Analytical Biology E
Advanced Functional and Analytical Biology F
Advanced Functional and Analytical Biology G
Advanced Functional and Analytical Biology H
Selected Topics in Functional and Analytical Biology A
Selected Topics in Functional and Analytical Biology B
Advanced Molecular Biofunctions A
Advanced Molecular Biofunctions B
Advanced Molecular Biofunctions C
Advanced Molecular Biofunctions D
Advanced Molecular Biofunctions E
Advanced Molecular Biofunctions F
Selected Topics in Molecular Biofunctions A
Selected Topics in Molecular Biofunctions B
Advanced Functional Biology of Natural History A
Advanced Functional Biology of Natural History B
Advanced Functional Biology of Natural History C
Advanced Functional Biology of Natural History D
Advanced Functional Biology of Natural History E
Advanced Functional Biology of Natural History F
Advanced Functional Biology of Natural History G
Advanced Functional Biology of Natural History H
Advanced Functional Biology of Natural History I
Advanced Functional Biology of Natural History J
Selected Topics in Functional Biology of Natural History A
Selected Topics in Functional Biology of Natural History B
Graduate Research Overseas 1
Graduate Research Overseas 2
Graduate Research in Biology 1A
Graduate Research in Biology 1B
Graduate Research in Biology 2A
Graduate Research in Biology 2B
Exercises in Biology 1A

Exercises in Biology 1B
Exercises in Biology 2A
Exercises in Biology 2B
Frontiers in Science A (Mathematics)
Frontiers in Science A (Physics)
Frontiers in Science A (Chemistry)
Frontiers in Science A (Biology)
Frontiers in Science A (Geosciences)
Frontiers in Science A (Biological Chemistry)
Frontiers in Science B (Mathematics)
Frontiers in Science B (Physics)
Frontiers in Science B (Chemistry)
Frontiers in Science B (Biology)
Frontiers in Science B (Geosciences)
Frontiers in Science B (Biological Chemistry)

<Department of Geosciences>

Course title
Graduate Research in Geosciences 1A
Graduate Research in Geosciences 1B
Graduate Research in Geosciences 2A
Graduate Research in Geosciences 2B
Exercises in Environmental Geosciences 1A
Exercises in Environmental Geosciences 1B
Exercises in Environmental Geosciences 2A
Exercises in Environmental Geosciences 2B
Exercises in Earth Evolution Sciences 1A
Exercises in Earth Evolution Sciences 1B
Exercises in Earth Evolution Sciences 2A
Exercises in Earth Evolution Sciences 2B
Advanced Natural History of Quaternary A
Advanced Natural History of Quaternary B
Advanced Geophysics A
Advanced Geophysics B
Advanced Geoinformatics A
Advanced Geoinformatics B
Advanced Natural Hazards Geoscience A
Advanced Natural Hazards Geoscience B
Advanced Mineralogy A
Advanced Mineralogy B
Advanced Petrology A
Advanced Petrology B
Advanced Geohistory A
Advanced Geohistory B
Advanced Earth Sciences
Selected Topics in Environmental Geosciences A
Selected Topics in Environmental Geosciences B
Selected Topics in Earth Evolution Sciences A
Selected Topics in Earth Evolution Sciences B
Graduate Research Overseas 1
Graduate Research Overseas 2
Frontiers in Science A (Mathematics)
Frontiers in Science A (Physics)
Frontiers in Science A (Chemistry)
Frontiers in Science A (Biology)

Frontiers in Science A (Geosciences)
Frontiers in Science A (Biological Chemistry)
Frontiers in Science B (Mathematics)
Frontiers in Science B (Physics)
Frontiers in Science B (Chemistry)
Frontiers in Science B (Biology)
Frontiers in Science B (Geosciences)
Frontiers in Science B (Biological Chemistry)

<Department of Biological Chemistry>

Course title
Research Proposal Seminar 1
Graduate Seminar 1A
Graduate Seminar 1B
Graduate Seminar 2A
Graduate Seminar 2B
Graduate Research 1A
Graduate Research 1B
Graduate Research 2A
Graduate Research 2B
Computational Biological Chemistry
Chemical Biology
Structural Biological Chemistry
Biochemical Pathology
Biology of Environmental Stress Response
Cell Biology
Biotechnology
Plant Physiology
Advanced Topics in Biological Chemistry A
Advanced Topics in Biological Chemistry B
Advanced Topics in Biological Chemistry C
Advanced Topics in Biological Chemistry D
International Research Program 1
Frontiers in Science A (Mathematics)
Frontiers in Science A (Physics)
Frontiers in Science A (Chemistry)
Frontiers in Science A (Biology)
Frontiers in Science A (Geosciences)
Frontiers in Science A (Biological Chemistry)
Frontiers in Science B (Mathematics)
Frontiers in Science B (Physics)
Frontiers in Science B (Chemistry)
Frontiers in Science B (Biology)
Frontiers in Science B (Geosciences)
Frontiers in Science B (Biological Chemistry)

Doctoral Course

<Department of Mathematics>

Course title
International Research 3
International Research 4
International Research 5
Graduate Research 3A
Graduate Research 3B
Graduate Research 4A
Graduate Research 4B
Graduate Research 5A
Graduate Research 5B
Seminar in Mathematical Structures
Seminar in Geometric Structures
Seminar in Mathematical Analysis
Seminar in Probability and Statistics

<Department of Physics>

Course title
Graduate Seminar 3A
Graduate Seminar 3B
Graduate Seminar 4A
Graduate Seminar 4B
Graduate Seminar 5A
Graduate Seminar 5B
Graduate Research 3A
Graduate Research 3B
Graduate Research 4A
Graduate Research 4B
Graduate Research 5A
Graduate Research 5B
International Advanced Research Course 3
International Advanced Research Course 4
International Advanced Research Course 5
Selected Topics in Fundamental Physics 1 DA
Selected Topics in Fundamental Physics 1 DB
Selected Topics in Fundamental Physics 2 DA
Selected Topics in Fundamental Physics 2 DB
Selected Topics in Astro and High Energy Physics 1 DA
Selected Topics in Astro and High Energy Physics 1 DB
Selected Topics in Astro and High Energy Physics 2 DA
Selected Topics in Astro and High Energy Physics 2 DB
Selected Topics in Astro and High Energy Physics 3 DA
Selected Topics in Astro and High Energy Physics 3 DB
Selected Topics in Solid State Physics 1 DA
Selected Topics in Solid State Physics 1 DB
Selected Topics in Solid State Physics 2 DA
Selected Topics in Solid State Physics 2 DB
Selected Topics in Solid State Physics 3 DA
Selected Topics in Solid State Physics 3 DB
Selected Topics in Solid State Physics 4 DA
Selected Topics in Solid State Physics 4 DB

<Department of Chemistry>

Course title
Research Proposal Defense
Graduate Research in Chemistry 3A
Graduate Research in Chemistry 3B
Graduate Research in Chemistry 4A
Graduate Research in Chemistry 4B
Graduate Research in Chemistry 5A
Graduate Research in Chemistry 5B
Graduate Seminar in Chemistry 3A
Graduate Seminar in Chemistry 3B
Graduate Seminar in Chemistry 4A
Graduate Seminar in Chemistry 4B
Graduate Seminar in Chemistry 5A
Graduate Seminar in Chemistry 5B
Graduate Research Overseas 3
Graduate Research Overseas 4
Graduate Research Overseas 5

<Department of Biology>

Course title
Graduate Research Seminars in Functional and Analytical Biology
Graduate Research Seminars in Molecular Biofunctions
Graduate Research Seminars in Functional Biology of Natural History
Special Exercises in Functional and Analytical Biology
Special Exercises in Molecular Biofunctions
Special Exercises in Functional Biology of Natural History
Graduate Research Overseas 3
Graduate Research Overseas 4
Graduate Research Overseas 5
Graduate Research in Biology 3A
Graduate Research in Biology 3B
Graduate Research in Biology 4A
Graduate Research in Biology 4B
Graduate Research in Biology 5A
Graduate Research in Biology 5B

<Department of Geosciences>

Course title
Graduate Research in Geosciences 3A
Graduate Research in Geosciences 3B
Graduate Research in Geosciences 4A
Graduate Research in Geosciences 4B
Graduate Research in Geosciences 5A
Graduate Research in Geosciences 5B
Seminar in Environmental Geosciences A
Seminar in Environmental Geosciences B
Seminar in Earth Evolution Sciences A
Seminar in Earth Evolution Sciences B
Graduate Research Overseas 3
Graduate Research Overseas 4
Graduate Research Overseas 5

<Department of Biological Chemistry>

Course title
Research Proposal Seminar 2
Graduate Seminar 3A
Graduate Seminar 3B
Graduate Seminar 4A
Graduate Seminar 4B
Graduate Seminar 5A
Graduate Seminar 5B
Graduate Research 3A
Graduate Research 3B
Graduate Research 4A
Graduate Research 4B
Graduate Research 5A
Graduate Research 5B
Advanced Topics in Biological Chemistry E
Advanced Topics in Biological Chemistry F
Advanced Topics in Biological Chemistry G
Advanced Topics in Biological Chemistry H
International Research Program 2