



## Syllabus

# ALGEBRAIC GEOMETRY - 80637

Last update 09-04-2024

HU Credits: 4

Responsible Department: Mathematics

Academic year: 0

Semester: 2nd Semester

Teaching Languages: English

Campus: E. Safra

Course/Module Coordinator: Dr. Borys Kadets

Coordinator Email: [zev.rosengarten@mail.huji.ac.il](mailto:zev.rosengarten@mail.huji.ac.il)

Coordinator Office Hours:

Teaching Staff:  
Dr. Borys Kadets

Course/Module description:  
Algebraic Geometry In The Language of Schemes

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Course/Module aims:

*Algebraic Geometry*

Learning outcomes - On successful completion of this module, students should be able to:

*Algebraic Geometry*

Attendance requirements(%):

*None*

*Teaching arrangement and method of instruction: Lecture*

Course/Module Content:

*Affine and projective schemes, local and global properties, sheaves and cohomology, algebraic curves.*

Required Reading:

*None*

Additional Reading Material:

*Hartshorne Algebraic Geometry*

Grading Scheme:

*Active Participation / Team Assignment 20 %*

*Submission assignments during the semester: Exercises / Essays / Audits / Reports / Forum / Simulation / others 80 %*

Additional information:

*Prerequisites: commutative algebra on the level of Atiyah and Macdonald's book.*

*This course is geared towards master and doctorate students who would like to be proficient in scheme theory.*