

MATH-311 **Algebra IV - rings and modules**

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Cursus	Sem.	Type
Mathematics	BA5	Opt.

Language of teaching	English
Credits	5
Session	Winter
Semester	Fall
Exam	Written
Workload	150h
Weeks	14
Hours	4 weekly
Lecture	2 weekly
Exercises	2 weekly
Number of positions	

Summary

Ring and module theory with a major emphasis on commutative algebra and a minor emphasis on homological algebra.

Learning Prerequisites**Required courses**

- Linear algebra
- Théorie des groupes
- Anneaux et corps

Teaching methods

ex chatedra course with exercise session

Assessment methods

1. Written final exam.
2. Bonus exercises to be handed in during the semsester, worth up to 30% of the final grade.

Resources**Notes/Handbook**

There will be pdf notes provided for the course.

Moodle Link

- <https://go.epfl.ch/MATH-311>