## Module description

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<th>Module title</th>
<th>Abbreviation</th>
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<tr>
<td>Linear Algebra 2 for Teaching Degree (German Gymnasium)</td>
<td>10-M-LNL2-191-m01</td>
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### Module coordinator
Dean of Studies Mathematik (Mathematics)

### Module offered by
Institute of Mathematics

### ECTS
5

### Method of grading
Only after succ. compl. of module(s)

### Duration
1 semester

### Module level
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### Other prerequisites
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### Contents
Eigenvalue theory, bilinear forms, Euclidean and unitary vector spaces, diagonalisability and Jordan normal form.

### Intended learning outcomes
The student knows and masters the basic notions and essential methods of linear algebra. He/She is acquainted with the central proof methods in linear algebra, and can apply them to solve easy problems. He/She is able to perform simple mathematical arguments independently, and can present them adequately in written form.

### Courses
( type, number of weekly contact hours, language — if other than German)

| Ü (2) |

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

Written examination (approx. 90 to 180 minutes) and written exercises (approx. 10 exercise sheets with approx. 4 exercises each)

Language of assessment: German and/or English

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)

§ 73 I Nr. 2

### Module appears in
First state examination for the teaching degree Gymnasium Mathematics (2019)