# Mathematics M1e

**Winter**

(engl. Mathematics M1e )

## Module-ID: FMA-INF-5013252

| | |
|---|---|
| **Link:** | **(Angeboten wenn im LSF)** |
| **Responsibility:** | Prof. Dr. Volker Kaibel |
| **Lecturer:** | , Prof. Dr. Volker Kaibel |
| **Classes:** | • Lecture *Mathematics M1e*<br>• Global Exercise *Mathematics M1e*<br>• Group Exercise *Mathematics M1e* |

| Credit Points | Semester | Term | Duration | Language | Level |
|---|---|---|---|---|---|
| 5 | Winter | 2. | 1 Semester | english | Bachelor |

**Goals and qualifications:**
The students acquire comprehension of and familiarity with concepts and methods that are relevant to subject-specific classes in the areas of engineering and computer science. They develop technical skills by applying those methods, in particular to subject-specific examples. The topical focus of the module is on an introduction to linear algebra.

**Content:**

- Complex numbers
- Real and complex vectors
- Matrices
- Determinants
- Linear maps
- Eigenvalues (introduction)
- Systems of linear equations

**Workload:**

| | In class | self-study |
|---|---|---|
| Lecture | 3 SWS / 42 h | 66 h |
| Global tutorial | 2 SWS / 28 h | |
| Group tutorial | 1 SWS / 14 h | |

| Prerequisites for participation: | Pre-examination requirements: | Type of examination: |
|---|---|---|
| | | |

| | |
|---|---|
| **Applicability in curriculum:** | - B.Sc. INF: Mathematik / Logik<br>- B.Sc. INF: Mathematik (SPO 2027)<br>- B.Sc. CV: Mathematik / Logik<br>- B.Sc. CV: Mathematik (SPO 2027)<br>- B.Sc. INGINF: Mathematik / Logik<br>- B.Sc. INGINF: Mathematik (SPO 2027)<br>- B.Sc. WIF: Verstehen - Pflicht<br>- B.Sc. WIF: Mathematik (SPO 2027)<br>- B.Sc. INF (bilingual): Mathematik / Logik<br>- B.Sc. INF (bilingual): Mathematik (SPO 2027) |

## Comments:

Revision #1
Created 2026-10-01 07:14:51 UTC by Fakultät für Informatik
Updated 2026-10-01 07:14:51 UTC by Fakultät für Informatik