# Curriculum Bachelor Mathematics

## WEEK 36-52

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### Track specific courses (4 x 6EC)
- Major specific courses (4 x 6EC)
- Study skills: studying abroad & career & orientation on semester 4

### Minor or semester abroad
- Minor contd.
- Track specific constrained choice (1 x 6 EC)

### Study and career (1EC)
- Study skills: career & orientation on minors (incl. mathematics education)

### Period 5
- Major specific project (5EC)
- Major specific courses (2 x 6EC)

### Period 6
- Mathematical modelling of dynamical systems (incl. Academic English (6EC)

## YEAR 2

### Period 1
- Single variable calculus (6EC)
- Linear algebra (6EC)
- Basic concepts in mathematics (6EC)
- Discrete mathematics (6EC)

### Period 2
- Introduction to mathematical modelling (3EC)
- Multivariable calculus (6EC)

### Period 3
- Mathematical analysis (6EC)

### Period 4
- Group theory (6EC)
- Probability theory (6EC)

### Period 5
- Study sessions

### Period 6
- Mathematical modelling of dynamical systems incl. Academic English (6EC)

### Minor or semester abroad
- Bachelor project Mathematics (12 EC)

### Track specific constrained choices (2 x 6EC)

### Period 1
- History and philosophy of science (6EC)

### Period 2
- Introduction to mathematical modelling (3EC)

### Period 3
- Multivariable calculus (6EC)

### Period 4
- Study sessions

### Period 5
- Study skills: career & orientation on minors (incl. mathematics education)

### Period 6
- Study sessions

## YEAR 3

### Period 1
- Mathematical analysis (6EC)
- Basic concepts in mathematics (6EC)
- Discrete mathematics (6EC)
- Introduction to programming (Python) (3EC)

### Period 2
- Group theory (6EC)

### Period 3
- Probability theory (6EC)

### Period 4
- Linear algebra (6EC)

### Period 5
- Study sessions

### Period 6
- Study sessions

## Pure Mathematics
- Dynamical systems, Rings and fields, Topology...

## Applied Mathematics
- Statistics, Statistical Data Analysis, Numerical methods...

## Track specific, choice

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<tr>
<td>Algebra and geometry</td>
<td>Number Theory, Galois Theory, Differential Geometry, Representation Theory…</td>
<td>Biomedical science</td>
<td>Biotechnology, Mathematical Biology, Bioinformatics, Neuroscience…</td>
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<tr>
<td>Data science</td>
<td>Machine learning, Databases…</td>
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