

Bachelor Scheikunde 2026-2027

Jaar 1

Periode 1	Periode 2	Periode 3	Periode 4	Periode 5	Periode 6
Fundamentals in Chemistry (5 EC)	Introduction to Organic Chemistry (5 EC)		Molecular Analysis (6 EC)	Inorganic Chemistry (6 EC)	Quantum Chemistry and Modelling (6 EC)
General Chemistry Lab (3 EC)	Organic Chemistry Lab (3 EC)	Chemistry of Life (6 EC)	Thermodynamics (6 EC)	Physics for chemistry (6 EC)	
Mathematics 1 for chemistry (3 EC)	Mathematics 2 for chemistry (3 EC)				
Academic Skills in Chemistry (2 EC)					

Jaar 2

Naast de kernvakken volg je alle vakken van twee richtingen en je kiest twee vakken van de andere richtingen.

Periode 1	Periode 2	Periode 3	Periode 4	Periode 5	Periode 6
Organic Chemistry (6 EC)	Coordination and Organometallic Chemistry (6 EC)	Reflection on Chemistry (3 EC)	Biochemistry (6 EC)	Catalysis (6 EC)	
Essentials of Analytical Chemistry (6 EC)	Bioorganic Chemistry (6 EC)		Molecular Spectroscopy (6 EC)	Biostructural Elucidation (6 EC)	Research Project Chemistry (6 EC)
Mathematics for Computational Chemistry (6 EC)	Molecular Computational Chemistry (6 EC)	Data Analysis and Programming (3 EC)	Physical Chemistry of Materials (6 EC)	Unravelling Molecular Structure and Function (6 EC)	
Professional Skills in Chemistry					

Jaar 3

Naast de kernvakken kies je één richting om je in te specialiseren.

Periode 1	Periode 2	Periode 3	Periode 4	Periode 5	Periode 6
Artificial Photosynthesis (6 EC)	Green and Industrial Chemistry (6 EC)	Elective Project (6 EC)	Advanced Synthesis (6 EC)	Bachelorproject (18 EC)	
Enzymes and Biocatalysis (6 EC)	Chemical Biology (6 EC)		Biomolecular Modeling (6 EC)		
	Light on Matter (6 EC)		Analytical Environmental Chemistry (6 EC)		
	AI for Chemistry (6 EC)		Quantum Mechanics for Chemists (6 EC)		
	Keuzevak (6 EC)	Literature Research and Academic English (5 EC)			
Professional Skills in Chemistry (1 EC)					

Kernvakken

Keuzevakken

Richting: Chemistry of Life

Richting: Synthesis & Sustainability

Richting: Analytics & Photonics

Richting: Quantum & Computing

1 EC (European Credit) = 28 studie-uren.

Aan de inhoud van dit curriculum schema kunnen geen rechten worden ontleend.

Keuzevakken

Jaar 2

Periode 1

- Analytical and Environmental Chemistry
- Functional Materials
- Organometallic Chemistry
- Programming and Algorithms

Periode 2

- ArtificialPhotosynthesis and Solar Fuels
- Green and Industrial Chemistry
- Introduction to Scientific Programming for Chemists
- Synthesis of Biomolecules

Periode 4

- Biomarkers and Proteomics
- Catalysis
- Computational and Structural Biology
- Mathematics for Quantum Chemistry

Jaar 3

Periode 1

- Analytical and Environmental Chemistry
- Functional Materials
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Periode 2

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- Green and Industrial Chemistry
- Introduction to Scientific Programming for Chemists
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Periode 4

- Biomarkers and Proteomics
- Catalysis
- Computational and Structural Biology
- Mathematics for Quantum Chemistry