



## Studiegids - Course Catalogue 2020/2021

### Graduate School of Informatics

#### Master Artificial Intelligence

##### Master's in Artificial Intelligence

###### Master's in Artificial Intelligence - Gebonden keuze - Jaar 1 (Constrained choice)

###### Master's in Artificial Intelligence - Restricted-choice electives - Year 1 (Constrained choice) (18 EC)

Vak/Course		Sem. 2	EC		
Game Theory	5314GATH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Information Visualization	5204INVI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Dialogue Modelling	5314CODM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Social Choice	5314COS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computer Vision 2	52042COV6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Natural Language Processing 2	52042NLP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Artificial Intelligence - Verplicht - Jaar 1 (Master Thesis)

###### Master's in Artificial Intelligence - Compulsory - Year 1 (Master Thesis) (36 EC)

Vak/Course		Sem. 2	EC		
Master Thesis AI	5204MTA48Y		36	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Artificial Intelligence - Verplicht - Jaar 1 (Verplichte vakken)

###### Master's in Artificial Intelligence - Compulsory - Year 1 (Compulsory courses) (42 EC)

Vak/Course		Sem. 2	EC		
Information Retrieval 1	52041INR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Symbolic Systems 1	52041SYS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Artificial Intelligence - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

###### Master's in Artificial Intelligence - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Project Artificial Intelligence A	5204PAIA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Project Artificial Intelligence B	5204PAIB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data-Driven Business Innovation and Entrepreneurship	5294DDBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Seminar Combining Symbolic and Statistical Methods in AI	5204SCSS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Topics in Computational Semantics	5314ATIC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data Mining Techniques	52848DAM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Knowledge Representation on the Web	5204KROT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Computational Science (joint degree)

##### Master's in Computational Science (Joint Degree)

###### Master's in Computational Science (Joint Degree) - Gebonden keuze - Jaar 1 (Constrained choice)

###### Master's in Computational Science (Joint Degree) - Restricted-choice electives - Year 1 (Constrained choice) (30 EC)

Vak/Course		Sem. 2	EC		
Computational Finance	5284COFI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Performance of Networked Systems	52848PEN6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Scientific Computing	5284SCCO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Biology	5284COBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data Mining Techniques	52848DAM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Distributed Algorithms	52848DIA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Experimental Design and Data Analysis	52848EDD6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Computational Science (Joint Degree) - Verplicht - Jaar 1 (Graduation project)

###### Master's in Computational Science (Joint Degree) - Compulsory - Year 1 (Graduation project) (42 EC)

Vak/Course		Sem. 2	EC		
Master Thesis Computational Science	5284MTC42Y		42	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Computational Science (Joint Degree) - Verplicht - Jaar 1 (Verplichte vakken)

###### Master's in Computational Science (Joint Degree) - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
Seminars Computational Science	5284SECS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

Complex System Simulation

5284COSS6Y



6

[Info](#)

[Add to planner](#)

### Master's in Computational Science (Joint Degree) - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

### Master's in Computational Science (Joint Degree) - Free-choice electives - Year 1 (Suggested elective courses) (24 EC)

Vak/Course		Sem. 2	EC		
Stochastic Calculus	6414M0013Y		5	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Finance	5284COFI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Parameter Estimation Applied to Medical & Biological Science	53548PEM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Programming Multi-core and Many-core Systems	5284PMCM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
The Social Web	52948THS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Topics in Computational Finance	5284COFA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Bioinformatics for Translational Medicine	5304BFTM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Bioinformatics II	52842BIO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Biomolecular Simulations	5254BISI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Biology	5284COBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantitative Financial Risk Management	52848QFR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Machine Learning for the Quantified Self	52848MLF6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Computer Science (joint degree)

### Master's in Computer Science (joint degree)

### Master's in Computer Science (joint degree) - Gebonden keuze - Jaar 1 (Verplichte keuzevakken)

### Master's in Computer Science (joint degree) - Restricted-choice electives - Year 1 (Verplichte keuzevakken) (6 EC)

Vak/Course		Sem. 2	EC		
E-Commerce Law	52948ECC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
ICT4D: Information and communication technology for Development	52948IIC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Computer Science (joint degree) - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

### Master's in Computer Science (joint degree) - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Individual Project	5284INDP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Logic

### Master's in Logic

### Master's in Logic - Gebonden keuze - Jaar 1 (Constrained courses)

### Master's in Logic - Restricted-choice electives - Year 1 (Constrained courses) (81 EC)

Vak/Course		Sem. 2	EC		
Topics in Modal Logic 2	53142TML6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Computing	5334QUCO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Information Theory	5334QUIT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topos Theory	5334TOTH8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Topics in Computational Semantics	5314ATIC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Topics in the Philosophy of Language	187413186Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Causal Inference: Philosophical Theory and Modern Practice	187413216Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Dialogue Modelling	5314CODM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Social Choice	5314COS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Distributed Algorithms	52848DIA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
How Music Works: Music Cognition	5244HMWM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Kant, Logic and Cognition	187413066Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Kolmogorov Complexity	5314KOCO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Logic, Games and Automata	5314LOGA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Model Theory	5314MOTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Natural Language Processing 2	52042NLP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Structures for Semantics	187413106Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Term Rewriting Systems	52848TER6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master's in Logic - Verplicht - Jaar 1 (Master Thesis)

#### Master's in Logic - Compulsory - Year 1 (Master Thesis) (30 EC)

Vak/Course		Sem. 2	EC			
Thesis Master of Logic	5314TML30Y			30	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Security and Network Engineering

#### Master's in Security and Network Engineering

#### Master's in Security and Network Engineering - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Security and Network Engineering - Compulsory - Year 1 (Compulsory courses) (60 EC)

Vak/Course		Sem. 2	EC			
Advanced Networking	5384ADNE6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Cybercrime and Forensics	5384CYFO6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Security	5384ADSE6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Offensive Technologies	5384OFTE6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Project 2	53842REP6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Software Engineering

#### Master's in Software Engineering

#### Master's in Software Engineering - Verplicht - Jaar 1 (Graduation project)

#### Master's in Software Engineering - Compulsory - Year 1 (Graduation project) (18 EC)

Vak/Course		Sem. 2	EC			
Masterproject Software Engineering	5364MAS18Y			18	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master's in Software Engineering - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Software Engineering - Compulsory - Year 1 (Compulsory courses) (42 EC)

Vak/Course		Sem. 2	EC			
DevOps and Cloud-based Software	5364DCBS6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Software Process	5364SOPR6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Computer Science (joint degree): Big Data Engineering

#### Master's in Computer Science (joint degree): Big Data Engineering

#### Master's in Computer Science (joint degree) - Track Big Data Engineering - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Computer Science (joint degree) - Track Big Data Engineering - Compulsory - Year 1 (Compulsory courses) (6 EC)

Vak/Course		Sem. 2	EC			
Information Visualization	5204INVI6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Computer Science (joint degree): Computer Systems Security

#### Master's in Computer Science (joint degree): Computer Systems Security

#### Master's in Computer Science (joint degree) - Track Computer Systems Security - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Computer Science (joint degree) - Track Computer Systems Security - Compulsory - Year 1 (Compulsory courses) (6 EC)

Vak/Course		Sem. 2	EC			
Cybercrime and Forensics	5384CYFO6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Computer Science (joint degree): Foundations of Computing and Concurrency

#### Master's in Computer Science (joint degree): Foundations of Computing and Concurrency

#### Master's in Computer Science (joint degree) - Track Foundations of Computing and Concurrency - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Computer Science (joint degree) - Track Foundations of Computing and Concurrency - Compulsory - Year 1 (Compulsory courses) (12 EC)

Vak/Course		Sem. 2	EC			
Distributed Algorithms	52848DIA6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master's in Computer Science (joint degree) - Track Foundations of Computing and Concurrency - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

#### Master's in Computer Science (joint degree) - Track Foundations of Computing and Concurrency - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC			
Proof Theory	5314PRTH6Y			6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master Computer Science (joint degree): Internet and Web Technology

#### Master's in Computer Science (joint degree): Internet and Web Technology

Master's in Computer Science (joint degree) - Track Internet and Web Technology - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Computer Science (joint degree) - Track Internet and Web Technology - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
Performance of Networked Systems	52848PEN6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Distributed Algorithms	52848DIA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Web Services and Cloud-Based Systems	5284WSCB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Computer Science (joint degree) - Track Internet and Web Technology - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Computer Science (joint degree) - Track Internet and Web Technology - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Programming Multi-core and Many-core Systems	5284PMCM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Computer Science (joint degree): Parallel Computing Systems

#### Master's in Computer Science (joint degree): Parallel Computing Systems

Master's in Computer Science (joint degree) - Track Parallel Computing Systems - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Computer Science (joint degree) - Track Parallel Computing Systems - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
Programming Multi-core and Many-core Systems	5284PMCM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Performance Engineering	5284PEEN6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Information Studies: Data Science

#### Master's in Information Studies: Data Science

Master's in Information Studies - Track Data Science - Gebonden keuze - Jaar 1 (Restricted Choice)

Master's in Information Studies - Track Data Science - Restricted-choice electives - Year 1 (Restricted Choice) (12 EC)

Vak/Course		Sem. 2	EC		
Data, Sensors and Complex Services	5294DSCS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data-Driven Business Innovation and Entrepreneurship	5294DDBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Information Retrieval 1	52041INR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Information Visualization	5204INVI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Perspectives on Information and Society	5294POIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Policy Making and Rule Governance	5294PMRG6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
The Social Web	52948THS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Information Studies - Track Data Science - Verplicht - Jaar 1 (Master Thesis)

Master's in Information Studies - Track Data Science - Compulsory - Year 1 (Master Thesis) (18 EC)

Vak/Course		Sem. 2	EC		
Master Thesis IS (DS)	5294MTD18Y		18	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Information Studies - Track Data Science - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Information Studies - Track Data Science - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
Big Data	5294BIDA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Information Studies: Information Systems

#### Master's in Information Studies: Information Systems

Master's in Information Studies - Track Information Systems - Gebonden keuze - Jaar 1 (Restricted choice)

Master's in Information Studies - Track Information Systems - Restricted-choice electives - Year 1 (Restricted choice) (12 EC)

Vak/Course		Sem. 2	EC		
Big Data	5294BIDA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data-Driven Business Innovation and Entrepreneurship	5294DDBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Information Retrieval 1	52041INR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Information Visualization	5204INVI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Innovation and Design Thinking	5294INDT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

Perspectives on Information and Society	5294POIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Policy Making and Rule Governance	5294PMRG6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
The Social Web	52948THS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Information Studies - Track Information Systems - Verplicht - Jaar 1 (Master Thesis)

#### Master's in Information Studies - Track Information Systems - Compulsory - Year 1 (Master Thesis) (18 EC)

Vak/Course		Sem. 2	EC		
Master Thesis IS (IS)	5294MIS18Y		18	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Information Studies - Track Information Systems - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Information Studies - Track Information Systems - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
Data, Sensors and Complex Services	5294DSCS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Logic: Logic and Computation

#### Master's in Logic: Logic and Computation

### Master's in Logic - Track Logic and Computation - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Logic - Track Logic and Computation - Compulsory - Year 1 (Compulsory courses) (12 EC)

Vak/Course		Sem. 2	EC		
Computational Complexity	5314COCO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Logic: Logic and Language

#### Master's in Logic: Logic and Language

### Master's in Logic - Track Logic and Language - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Logic - Track Logic and Language - Compulsory - Year 1 (Compulsory courses) (12 EC)

Vak/Course		Sem. 2	EC		
Structures for Semantics	187413106Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Logic: Logic and Mathematics

#### Master's in Logic: Logic and Mathematics

### Master's in Logic - Track Logic and Mathematics - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Logic - Track Logic and Mathematics - Compulsory - Year 1 (Compulsory courses) (20 EC)

Vak/Course		Sem. 2	EC		
Proof Theory	5314PRTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Model Theory	5314MOTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>





## Studiegids - Course Catalogue 2020/2021

### Graduate School of Life and Earth Sciences

#### Master Biological Sciences

##### Master's in Biological Sciences

###### Master's in Biological Sciences - Verplicht - Jaar 1 (Graduation project)

###### Master's in Biological Sciences - Compulsory - Year 1 (Graduation project) (42 EC)

Vak/Course		Sem. 2	EC		
Literature Review BS	5224LRB12Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Project Biological Sciences 2	5224RP230Y		30	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Biological Sciences - Verplicht - Jaar 1 (Verplichte vakken)

###### Master's in Biological Sciences - Compulsory - Year 1 (Compulsory courses) (30 EC)

Vak/Course		Sem. 2	EC		
Research Project Biological Sciences 1	5224RP130Y		30	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Biomedical Sciences

##### Master's in Biomedical Sciences

###### Master's in Biomedical Sciences - Verplicht - Jaar 1 (Graduation project)

###### Master's in Biomedical Sciences - Compulsory - Year 1 (Graduation project) (72 EC)

Vak/Course		Sem. 2	EC		
Literature Review Biomedical Sciences	5234PAP12Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Project Biomedical Sciences 1	52341RP00Y		30	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Project Biomedical Sciences 2	52342RP00Y		30	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Biomedical Sciences - Verplicht - Jaar 1 (Verplichte vakken)

###### Master's in Biomedical Sciences - Compulsory - Year 1 (Compulsory courses) (0 EC)

Vak/Course		Sem. 2	EC		
Academic Development	5234ACDE0Y		0	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Biomedical Sciences - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

###### Master's in Biomedical Sciences - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Laboratory Animal Course (art. 9)	5234LACA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Earth Sciences

##### Master's in Earth Sciences

###### Master's in Earth Sciences - Verplicht - Jaar 1 (Graduation project)

###### Master's in Earth Sciences - Compulsory - Year 1 (Graduation project) (36 EC)

Vak/Course		Sem. 2	EC		
Master Thesis Research Earth Sciences 1	52641MTR0Y		30	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Proposal Earth Sciences	5264REPR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Earth Sciences - Verplicht - Jaar 1 (Verplichte vakken)

###### Master's in Earth Sciences - Compulsory - Year 1 (Compulsory courses) (6 EC)

Vak/Course		Sem. 2	EC		
Research Workshop and Skills Lab	5264RWSL6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Workshop and Skills Lab	5264RWSL6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Life Sciences

##### Master's in Life Sciences

###### Master's in Life Sciences - Gebonden keuze - Jaar 1 (Gebonden keuze)

###### Master's in Life Sciences - Restricted-choice electives - Year 1 (Gebonden keuze) (6 EC)

Vak/Course		Sem. 2	EC		
Literature Review Life Sciences	5304TSBB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Systems Biology Grant Application	53048SBG6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Life Sciences - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

###### Master's in Life Sciences - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Systems Biology in Practice	5304SBIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master Biological Sciences: Ecology and Evolution

#### Master's in Biological Sciences: Ecology and Evolution

Master's in Biological Sciences - Track Ecology and Evolution - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Biological Sciences - Track Ecology and Evolution - Compulsory - Year 1 (Compulsory courses) (18 EC)

Vak/Course		Sem. 2	EC		
Masterclasses in Ecology and Evolution	52248MIE3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Scientific Writing in English	52248SWI3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: white; color: white;">■</span> <span style="background-color: white; color: white;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Biological Sciences: Freshwater and Marine Biology

#### Master's in Biological Sciences: Freshwater and Marine Biology

Master's in Biological Sciences - Track Freshwater and Marine Biology - Gebonden keuze - Jaar 1 (Constrained choice)

Master's in Biological Sciences - Track Freshwater and Marine Biology - Restricted-choice electives - Year 1 (Constrained choice) (12 EC)

Vak/Course		Sem. 2	EC		
NIOZ Marine Master Course	5224FOOC4Y	<span style="background-color: white; color: white;">■</span> <span style="background-color: white; color: white;">■</span> <span style="background-color: red; color: red;">■</span>	4	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Biological Sciences: General Biology

#### Master's in Biological Sciences: General Biology

Master's in Biological Sciences - Track General Biology - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biological Sciences - Track General Biology - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Masterclasses Green Life Sciences	5224MGLS3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Masterclasses in Ecology and Evolution	52248MIE3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Tools in Molecular Data Analysis	5224TIMD3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Systems Biology in Practice	5304SBIP6Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: white; color: white;">■</span> <span style="background-color: white; color: white;">■</span>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>
NIOZ Marine Master Course	5224FOOC4Y	<span style="background-color: white; color: white;">■</span> <span style="background-color: white; color: white;">■</span> <span style="background-color: red; color: red;">■</span>	4	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Biological Sciences: Green Life Sciences

#### Master's in Biological Sciences: Green Life Sciences

Master's in Biological Sciences - Track Green Life Sciences - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Biological Sciences - Track Green Life Sciences - Compulsory - Year 1 (Compulsory courses) (18 EC)

Vak/Course		Sem. 2	EC		
Masterclasses Green Life Sciences	5224MGLS3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Tools in Molecular Data Analysis	5224TIMD3Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span>	3	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Biological Sciences - Track Green Life Sciences - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biological Sciences - Track Green Life Sciences - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Systems Biology in Practice	5304SBIP6Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: white; color: white;">■</span> <span style="background-color: white; color: white;">■</span>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Biomedical Sciences: Cell Biology and Advanced Microscopy

#### Master's in Biomedical Sciences: Cell Biology and Advanced Microscopy

Master's in Biomedical Sciences - Track Cell Biology and Advanced Microscopy - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biomedical Sciences - Track Cell Biology and Advanced Microscopy - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Current Issues in Developmental Biology	5234CIID6Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: white; color: white;">■</span>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Biomedical Sciences: Developmental and Therapeutic Biology

#### Master's in Biomedical Sciences: Developmental and Therapeutic Biology

Master's in Biomedical Sciences - Track Developmental and Therapeutic Biology - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biomedical Sciences - Track Developmental and Therapeutic Biology - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Current Issues in Developmental Biology	5234CIID6Y	<span style="background-color: red; color: red;">■</span> <span style="background-color: red; color: red;">■</span> <span style="background-color: white; color: white;">■</span>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Biomedical Sciences: Experimental Internal Medicine

#### Master's in Biomedical Sciences: Experimental Internal Medicine



## Studiegids - Course Catalogue 2020/2021

Master's in Biomedical Sciences - Track Experimental Internal Medicine - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biomedical Sciences - Track Experimental Internal Medicine - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Current Issues in Developmental Biology	5234CIID6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Biomedical Sciences: Infection and Immunity**

**Master's in Biomedical Sciences: Infection and Immunity**

Master's in Biomedical Sciences - Track Infection and Immunity - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biomedical Sciences - Track Infection and Immunity - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Current Issues in Developmental Biology	5234CIID6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Biomedical Sciences: Oncology**

**Master's in Biomedical Sciences: Oncology**

Master's in Biomedical Sciences - Track Oncology - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Biomedical Sciences - Track Oncology - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Current Issues in Developmental Biology	5234CIID6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Earth Sciences: Environmental Management**

**Master's in Earth Sciences: Environmental Management**

Master's in Earth Sciences - Track Environmental Management - Gebonden keuze - Jaar 1 (Aangeraden Keuzevakken)

Master's in Earth Sciences - Track Environmental Management - Restricted-choice electives - Year 1 (Aangeraden Keuzevakken) (0 EC)

Vak/Course		Sem. 2	EC		
Field Course Geoecological Systems	5264FCG12Y	<input checked="" type="checkbox"/>	12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Metropole Ecology	5264MEEC6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Earth Sciences - Track Environmental Management - Gebonden keuze - Jaar 1 (Compulsory when starting in February)

Master's in Earth Sciences - Track Environmental Management - Restricted-choice electives - Year 1 (Compulsory when starting in February) (6 EC)

Vak/Course		Sem. 2	EC		
GIS/RS Science in Ecosystem Dynamics	5264GRSE6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Earth Sciences - Track Environmental Management - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Earth Sciences - Track Environmental Management - Compulsory - Year 1 (Compulsory courses) (18 EC)

Vak/Course		Sem. 2	EC		
Internship Earth Sciences	5264INT24Y	<input checked="" type="checkbox"/>	18	<a href="#">Info</a>	<a href="#">Add to planner</a>
System Innovation and Transition Management I	52641SIT6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Earth Sciences - Track Environmental Management - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Earth Sciences - Track Environmental Management - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Environmental Measuring Techniques	5264ENMT6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>
GIS/RS Science in Ecosystem Dynamics	5264GRSE6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Literature Review Earth Sciences	5264LIT12Y	<input checked="" type="checkbox"/>	12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Field Course Geoecological Systems	5264FCG12Y	<input checked="" type="checkbox"/>	12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Metropole Ecology	5264MEEC6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Science-Based Geo-Ecological Management	5264SBGE6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Climate Change	5264CLCH6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Earth Sciences: Future Planet Ecosystem Science**

**Master's in Earth Sciences: Future Planet Ecosystem Science**

Master's in Earth Sciences - Track Future Planet Ecosystem Science - Gebonden keuze - Jaar 1 (Mandatory choice: select one of two)

Master's in Earth Sciences - Track Future Planet Ecosystem Science - Restricted-choice electives - Year 1 (Mandatory choice: select one of two) (12 EC)

Vak/Course		Sem. 2	EC		
Master Thesis Research Earth Sciences 2	52642MTROY	<input checked="" type="checkbox"/>	30	<a href="#">Info</a>	<a href="#">Add to planner</a>





## Studiegids - Course Catalogue 2020/2021

Literature Review Earth Sciences

5264LIT12Y



12

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**Master's in Earth Sciences - Track Future Planet Ecosystem Science - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)**

**Master's in Earth Sciences - Track Future Planet Ecosystem Science - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)**

Vak/Course		Sem. 2	EC		
Internship Earth Sciences	5264INT24Y		18	<a href="#">Info</a>	<a href="#">Add to planner</a>
Writing a Scientific Article	5264WAS12Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
GIS/RS Science in Ecosystem Dynamics	5264GRSE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Metropole Ecology	5264MEEC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Science-Based Geo-Ecological Management	5264SBGE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Climate Change	5264CLCH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Earth Sciences: Geo-Ecological Dynamics

#### Master's in Earth Sciences: Geo-Ecological Dynamics

**Master's in Earth Sciences - Track Geo-Ecological Dynamics - Gebonden keuze - Jaar 1 (Compulsory when starting in February)**

**Master's in Earth Sciences - Track Geo-Ecological Dynamics - Restricted-choice electives - Year 1 (Compulsory when starting in February) (6 EC)**

Vak/Course		Sem. 2	EC		
GIS/RS Science in Ecosystem Dynamics	5264GRSE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master's in Earth Sciences - Track Geo-Ecological Dynamics - Verplicht - Jaar 1 (Verplichte vakken)**

**Master's in Earth Sciences - Track Geo-Ecological Dynamics - Compulsory - Year 1 (Compulsory courses) (12 EC)**

Vak/Course		Sem. 2	EC		
Literature Review Earth Sciences	5264LIT12Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master's in Earth Sciences - Track Geo-Ecological Dynamics - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)**

**Master's in Earth Sciences - Track Geo-Ecological Dynamics - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)**

Vak/Course		Sem. 2	EC		
Environmental Measuring Techniques	5264ENMT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Environmental Measuring Techniques	5264ENMT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
GIS/RS Science in Ecosystem Dynamics	5264GRSE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
GIS/RS Science in Ecosystem Dynamics	5264GRSE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
System Innovation and Transition Management I	52641SIT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Field Course Geoecological Systems	5264FCG12Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Field Course Geoecological Systems	5264FCG12Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Metropole Ecology	5264MEEC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Metropole Ecology	5264MEEC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Science-Based Geo-Ecological Management	5264SBGE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Science-Based Geo-Ecological Management	5264SBGE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Climate Change	5264CLCH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Climate Change	5264CLCH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Life Sciences: Bioinformatics

#### Master's in Life Sciences: Bioinformatics

**Master's in Life Sciences - Track Bioinformatics - Gebonden keuze - Jaar 1 (aangeraden keuze)**

**Master's in Life Sciences - Track Bioinformatics - Restricted-choice electives - Year 1 (aangeraden keuze) (0 EC)**

Vak/Course		Sem. 2	EC		
Systems Biology in Practice	5304SBIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistics with R	53048STI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced modelling in Systems Biology	5304AMIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master's in Life Sciences - Track Bioinformatics - Verplicht - Jaar 1 (Verplichte vakken)**

**Master's in Life Sciences - Track Bioinformatics - Compulsory - Year 1 (Compulsory courses) (18 EC)**

Vak/Course		Sem. 2	EC		
Structural Bioinformatics	5304STBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Bioinformatics for Translational Medicine	5304BFTM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master Life Sciences: Systems Biology

#### Master's in Life Sciences: Systems Biology

##### Master's in Life Sciences - Track Systems Biology - Gebonden keuze - Jaar 1 (Gebonden keuze periode 5)

##### Master's in Life Sciences - Track Systems Biology - Restricted-choice electives - Year 1 (Gebonden keuze periode 5) (6 EC)

Vak/Course		Sem. 2	EC		
Statistics with R	53048STI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced modelling in Systems Biology	5304AMIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Life Sciences - Track Systems Biology - Verplicht - Jaar 1 (Verplichte vakken)

##### Master's in Life Sciences - Track Systems Biology - Compulsory - Year 1 (Compulsory courses) (12 EC)

Vak/Course		Sem. 2	EC		
Systems Biology in Practice	5304SBIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Life Sciences - Track Systems Biology - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

##### Master's in Life Sciences - Track Systems Biology - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Structural Bioinformatics	5304STBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Bioinformatics for Translational Medicine	5304BFTM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Biology	5284COBI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistics with R	53048STI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced modelling in Systems Biology	5304AMIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Graduate School of Sciences

#### Master Astronomy and Astrophysics

##### Master's in Astronomy and Astrophysics

###### Master's in Astronomy and Astrophysics - Gebonden keuze - Jaar 1 (Academic Skills)

###### Master's in Astronomy and Astrophysics - Restricted-choice electives - Year 1 (Academic Skills) (3 EC)

Vak/Course		Sem. 2	EC		
Own Project Academic Skills	5214OPAS3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Academic Skills; Critical Thinking	5354ASCT3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Astronomy and Astrophysics - Gebonden keuze - Jaar 1 (External free elective suggestions)

###### Master's in Astronomy and Astrophysics - Restricted-choice electives - Year 1 (External free elective suggestions) (0 EC)

Vak/Course		Sem. 2	EC		
Particles and Fields	5354PAFI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Gravitational Waves	5354GRWA3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Astronomy and Astrophysics - Verplicht - Jaar 1

###### Master's in Astronomy and Astrophysics - Compulsory - Year 1 (60 EC)

Vak/Course		Sem. 2	EC		
Astronomy and Astrophysics Thesis Research Project	5214AAT54Y		54	<a href="#">Info</a>	<a href="#">Add to planner</a>
Thesis and Colloquium Astronomy and Astrophysics	5214THCA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Chemistry (joint degree)

##### Master's in Chemistry (joint degree)

###### Master's in Chemistry (joint degree) - Gebonden keuze - Jaar 1 (Optional)

###### Master's in Chemistry (joint degree) - Restricted-choice electives - Year 1 (Optional) (0 EC)

Vak/Course		Sem. 2	EC		
Research Project Chemistry - minor	5254RPC18Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>

###### Master's in Chemistry (joint degree) - Verplicht - Jaar 1 (Theses)

###### Master's in Chemistry (joint degree) - Compulsory - Year 1 (Theses) (48 EC)

Vak/Course		Sem. 2	EC		
Literature Study	5254LIP12Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Research Project Chemistry	5254RPC42Y		36	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Mathematical Physics

##### Master's in Mathematical Physics

###### Master's in Mathematical Physics - Gebonden keuze - Jaar 1 (Constrained electives)

###### Master's in Mathematical Physics - Restricted-choice electives - Year 1 (Constrained electives) (66 EC)

Vak/Course		Sem. 2	EC		
Reading Course	53342RCM6Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Reading course Mathematics	5334RECM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Algebraic Geometry 2	53342ALG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Algebraic Topology 2	53342ALT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Blowing Ups and Deformations: an Introduction to the Theory of Singularities	5324BUDA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Lie Algebras	5334LIAL8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Operator Algebras	53348OPA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Percolation: from Introduction to Frontiers of Current Research	5334PITF8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Computing	5334QUCO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Information Theory	5334QUIT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Riemann Surfaces	53348RIS8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Symplectic Geometry	53248SYG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topology of Algebraic Varieties	5334TOAV6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistical Physics and Condensed Matter Theory II	53542SPC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
String Theory	5354STTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum in Business and Society	5354QIBS3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

String Theory, extension

5354STTE3Y



3

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### Master's in Mathematical Physics - Verplicht - Jaar 1 (Graduation project)

#### Master's in Mathematical Physics - Compulsory - Year 1 (Graduation project) (36 EC)

Vak/Course

Sem. 2

EC

Master Project Mathematical Physics

5324MPM48Y



36

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### Master's in Mathematical Physics - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Mathematical Physics - Compulsory - Year 1 (Compulsory courses) (36 EC)

Vak/Course

Sem. 2

EC

Master Seminar in Algebra, Geometry and Mathematical Physics

5334MSIA6Y



6

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Topology in Physics

5354TOIP6Y



6

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## Master Mathematics

### Master's in Mathematics

#### Master's in Mathematics - Verplicht - Jaar 1 (Master's thesis)

#### Master's in Mathematics - Compulsory - Year 1 (Master's thesis) (36 EC)

Vak/Course

Sem. 2

EC

Master Project Mathematics

5334MPM36Y



36

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#### Master's in Mathematics - Vrije keuze - Jaar 1 (Suggested electives)

#### Master's in Mathematics - Free-choice electives - Year 1 (Suggested electives) (0 EC)

Vak/Course

Sem. 2

EC

Reading Course

53342RCM6Y



3

[Info](#)

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Reading course Mathematics

5334RECM6Y



6

[Info](#)

[Add to planner](#)

Additive Combinatorics

5334ADCO8Y



8

[Info](#)

[Add to planner](#)

Advanced Linear Programming

53348ALP6Y



6

[Info](#)

[Add to planner](#)

Algebraic Geometry 2

53342ALG8Y



8

[Info](#)

[Add to planner](#)

Algebraic Topology 2

53342ALT8Y



8

[Info](#)

[Add to planner](#)

Analyse

5334ANAL6Y



6

[Info](#)

[Add to planner](#)

Applied Analysis: Financial Mathematics

53348AAF6Y



6

[Info](#)

[Add to planner](#)

Applied Finite Elements

53348AFE6Y



6

[Info](#)

[Add to planner](#)

Blowing Ups and Deformations: an Introduction to the Theory of Singularities

5324BUDA6Y



6

[Info](#)

[Add to planner](#)

Calculus of Variations

5334CAVA8Y



8

[Info](#)

[Add to planner](#)

Coding and Cryptography

53348CCR6Y



6

[Info](#)

[Add to planner](#)

Complex Dynamical Systems

5334CODS6Y



6

[Info](#)

[Add to planner](#)

Complex Networks

5374CONE8Y



8

[Info](#)

[Add to planner](#)

Data-driven Decision Making in Operations Research

5334DDDM6Y



6

[Info](#)

[Add to planner](#)

Elliptic Curves

53348ELC8Y



8

[Info](#)

[Add to planner](#)

Entrepreneurship in Data Science and Analytics

53348EID6Y



6

[Info](#)

[Add to planner](#)

Introduction to Numerical Bifurcation Analysis of ODEs and Maps

5334INBO8Y



8

[Info](#)

[Add to planner](#)

Inverse Problems in Imaging

5334IPII8Y



8

[Info](#)

[Add to planner](#)

Inverse Problems in Imaging

5334IPII6Y



6

[Info](#)

[Add to planner](#)

Lie Algebras

5334LIAL8Y



8

[Info](#)

[Add to planner](#)

Modular Forms

5334MOFO8Y



8

[Info](#)

[Add to planner](#)

Nonparametric Statistics

5334NOST6Y



6

[Info](#)

[Add to planner](#)

Operator Algebras

53348OPA8Y



8

[Info](#)

[Add to planner](#)

Optimisation of Business Processes

53348OPB6Y



6

[Info](#)

[Add to planner](#)

Percolation: from Introduction to Frontiers of Current Research

5334PITF8Y



8

[Info](#)

[Add to planner](#)

Quantum Computing

5334QUCO8Y



8

[Info](#)

[Add to planner](#)

Quantum Information Theory

5334QUIT8Y



8

[Info](#)

[Add to planner](#)

Queueing Theory

53748QUT6Y



6

[Info](#)

[Add to planner](#)



## Studiegids - Course Catalogue 2020/2021

Queues and Levy Fluctuation Theory	5334QLFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Riemann Surfaces	53348RIS8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Scheduling	53748SCH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Selected Areas in Cryptology	5334SAIC8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Semidefinite Optimization	53348SEO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Seminar Algebra	53348SEA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistical Theory for High-and Infinite Dimensional Systems	53348STF6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistics for Stochastic Processes	5334SFSP8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Stochastic Integration	5374STIN8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Stochastic Processes	53748STP8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Symplectic Geometry	53248SYG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topological Data Analysis	5334TODA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topology in Physics	5354TOIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topology of Algebraic Varieties	5334TOAV6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topos Theory	5334TOTH8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Quantum Field Theory	5354AQFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
String Theory	5354STTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree)

#### Master's in Physics and Astronomy

##### Master's in Physics and Astronomy - Gebonden keuze - Jaar 1 (Academic skills)

##### Master's in Physics and Astronomy - Restricted-choice electives - Year 1 (Academic skills) (6 EC)

Vak/Course		Sem. 2	EC		
Academic Skills; Individual Project	5354ASIP3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Academic Skills; Individual Project 2	53542ASI3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Physics Education Project	5354PHEP3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Scientific Writing in English	55248SWE3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Science in Perspective	5354SCIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Project Academic Skills for Research	5354PASF6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Wetenschapscommunicatie voor Bèta-onderzoekers	55028WVB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum in Business and Society	5354QIBS3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Physics and Astronomy - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

##### Master's in Physics and Astronomy - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Academic Skills; Individual Project	5354ASIP3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Stochastics and Financial Mathematics

#### Master's in Stochastics and Financial Mathematics

##### Master's in Stochastics and Financial Mathematics - Gebonden keuze - Jaar 1 (Constrained choice)

##### Master's in Stochastics and Financial Mathematics - Restricted-choice electives - Year 1 (Constrained choice) (61 EC)

Vak/Course		Sem. 2	EC		
Reading Course	53342RCM6Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Reading course Mathematics	5334RECM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Applied Analysis: Financial Mathematics	53348AAF6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Complex Networks	5374CONE8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data-driven Decision Making in Operations Research	5334DDDM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Entrepreneurship in Data Science and Analytics	53348EID6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Nonparametric Statistics	5334NOST6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Optimisation of Business Processes	53348OPB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Percolation: from Introduction to Frontiers of Current Research	5334PITF8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Queues and Levy Fluctuation Theory	5334QLFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistics for Stochastic Processes	5334SFSP8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Stochastic Integration	5374STIN8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>





## Studiegids - Course Catalogue 2020/2021

Stochastic Processes	53748STP8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topological Data Analysis	5334TODA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Computational Finance	5284COFI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Performance of Networked Systems	52848PEN6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Internship Stochastics and Financial Mathematics	5374ISFM3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Stochastics and Financial Mathematics - Verplicht - Jaar 1 (Graduation project)

### Master's in Stochastics and Financial Mathematics - Compulsory - Year 1 (Graduation project) (36 EC)

Vak/Course		Sem. 2	EC		
Master Project Stochastics and Financial Mathematics	5374MPS36Y		36	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Mathematics: Algebra and Geometry

### Master's in Mathematics: Algebra and Geometry

### Master's in Mathematics - Specialisation Algebra and Geometry - Gebonden keuze - Jaar 1 (Basic)

### Master's in Mathematics - Specialisation Algebra and Geometry - Restricted-choice electives - Year 1 (Basic) (18 EC)

Vak/Course		Sem. 2	EC		
Additive Combinatorics	5334ADCO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Lie Algebras	5334LIAL8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Modular Forms	5334MOFO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Riemann Surfaces	53348RIS8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Algebra and Geometry - Gebonden keuze - Jaar 1 (Specialized)

### Master's in Mathematics - Specialisation Algebra and Geometry - Restricted-choice electives - Year 1 (Specialized) (12 EC)

Vak/Course		Sem. 2	EC		
Algebraic Geometry 2	53342ALG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Algebraic Topology 2	53342ALT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Blowing Ups and Deformations: an Introduction to the Theory of Singularities	5324BUDA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Elliptic Curves	53348ELC8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Selected Areas in Cryptology	5334SAIC8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Symplectic Geometry	53248SYG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topology of Algebraic Varieties	5334TOAV6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Algebra and Geometry - Verplicht - Jaar 1 (Verplichte vakken)

### Master's in Mathematics - Specialisation Algebra and Geometry - Compulsory - Year 1 (Compulsory courses) (6 EC)

Vak/Course		Sem. 2	EC		
Master Seminar in Algebra, Geometry and Mathematical Physics	5334MSIA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Mathematics: Analysis and Dynamical Systems

### Master's in Mathematics: Analysis and Dynamical Systems

### Master's in Mathematics - Specialisation Analysis and Dynamical Systems - Gebonden keuze - Jaar 1 (Basic)

### Master's in Mathematics - Specialisation Analysis and Dynamical Systems - Restricted-choice electives - Year 1 (Basic) (18 EC)

Vak/Course		Sem. 2	EC		
Complex Dynamical Systems	5334CODS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Analysis and Dynamical Systems - Gebonden keuze - Jaar 1 (Specialized)

### Master's in Mathematics - Specialisation Analysis and Dynamical Systems - Restricted-choice electives - Year 1 (Specialized) (12 EC)

Vak/Course		Sem. 2	EC		
Calculus of Variations	5334CAVA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Introduction to Numerical Bifurcation Analysis of ODEs and Maps	5334INBO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Inverse Problems in Imaging	5334IPII6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Operator Algebras	53348OPA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Symplectic Geometry	53248SYG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master's in Mathematics - Specialisation Analysis and Dynamical Systems - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Mathematics - Specialisation Analysis and Dynamical Systems - Compulsory - Year 1 (Compulsory courses) (6 EC)

Vak/Course		Sem. 2	EC		
Master Seminar in Analysis and Dynamical Systems	5334MSAD6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Mathematics: Mathematical Physics

#### Master's in Mathematics: Mathematical Physics

### Master's in Mathematics - Specialisation Mathematical Physics - Gebonden keuze - Jaar 1 (Basic)

#### Master's in Mathematics - Specialisation Mathematical Physics - Restricted-choice electives - Year 1 (Basic) (18 EC)

Vak/Course		Sem. 2	EC		
Lie Algebras	5334LIAL8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Riemann Surfaces	53348RIS8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topology in Physics	5354TOIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Mathematical Physics - Gebonden keuze - Jaar 1 (Physics and Astronomy)

#### Master's in Mathematics - Specialisation Mathematical Physics - Restricted-choice electives - Year 1 (Physics and Astronomy) (6 EC)

Vak/Course		Sem. 2	EC		
Advanced Quantum Field Theory	5354AQFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
String Theory	5354STTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Mathematical Physics - Gebonden keuze - Jaar 1 (Specialized)

#### Master's in Mathematics - Specialisation Mathematical Physics - Restricted-choice electives - Year 1 (Specialized) (12 EC)

Vak/Course		Sem. 2	EC		
Algebraic Geometry 2	53342ALG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Algebraic Topology 2	53342ALT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Blowing Ups and Deformations: an Introduction to the Theory of Singularities	5324BUDA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Operator Algebras	53348OPA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Percolation: from Introduction to Frontiers of Current Research	5334PITF8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Computing	5334QUCO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Information Theory	5334QUIT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Symplectic Geometry	53248SYG8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Mathematical Physics - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Mathematics - Specialisation Mathematical Physics - Compulsory - Year 1 (Compulsory courses) (6 EC)

Vak/Course		Sem. 2	EC		
Master Seminar in Algebra, Geometry and Mathematical Physics	5334MSIA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Mathematics: Stochastics

#### Master's in Mathematics: Stochastics

### Master's in Mathematics - Specialisation Stochastics - Gebonden keuze - Jaar 1 (Basic)

#### Master's in Mathematics - Specialisation Stochastics - Restricted-choice electives - Year 1 (Basic) (18 EC)

Vak/Course		Sem. 2	EC		
Stochastic Integration	5374STIN8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Mathematics - Specialisation Stochastics - Gebonden keuze - Jaar 1 (Specialized)

#### Master's in Mathematics - Specialisation Stochastics - Restricted-choice electives - Year 1 (Specialized) (12 EC)

Vak/Course		Sem. 2	EC		
Complex Networks	5374CONE8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Data-driven Decision Making in Operations Research	5334DDDM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Nonparametric Statistics	5334NOST6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Queues and Levy Fluctuation Theory	5334QLFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistics for Stochastic Processes	5334SFSP8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Stochastic Processes	53748STP8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topological Data Analysis	5334TODA8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

Master's in Mathematics - Specialisation Stochastics - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Mathematics - Specialisation Stochastics - Compulsory - Year 1 (Compulsory courses) (14 EC)

Vak/Course		Sem. 2	EC		
Master Seminar in Stochastics	5334MSIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Astronomy and Astrophysics: GRAPPA/Astro****Master's in Astronomy and Astrophysics: GRAPPA/Astro**

Master's in Astronomy and Astrophysics - Track GRAPPA/Astro - Gebonden keuze - Jaar 1 (Constrained choice)

Master's in Astronomy and Astrophysics - Track GRAPPA/Astro - Restricted-choice electives - Year 1 (Constrained choice) (24 EC)

Vak/Course		Sem. 2	EC		
Interstellar and Circumstellar Matter	5214INCM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Space Instrumentation for High-Energy Astrophysics	5214SIFH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Astronomy and Astrophysics - Track GRAPPA/Astro - Gebonden keuze - Jaar 1 (Grappa external electives)

Master's in Astronomy and Astrophysics - Track GRAPPA/Astro - Restricted-choice electives - Year 1 (Grappa external electives) (0 EC)

Vak/Course		Sem. 2	EC		
Beyond the Standard Model	5354BESM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Particle Detection B	5354PADB3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
GRAPPA Student Seminar	5354GRSS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Astronomy and Astrophysics - Track GRAPPA/Astro - Verplicht - Jaar 1

Master's in Astronomy and Astrophysics - Track GRAPPA/Astro - Compulsory - Year 1 (30 EC)

Vak/Course		Sem. 2	EC		
HEA: Radiative Processes and Relativistic Flows	5214HRPR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Chemistry (joint degree): Analytical Sciences****Master's in Chemistry (joint degree): Analytical Sciences**

Master's in Chemistry (joint degree) - Track Analytical Sciences - Gebonden keuze - Jaar 1 (Constrained choice)

Master's in Chemistry (joint degree) - Track Analytical Sciences - Restricted-choice electives - Year 1 (Constrained choice) (12 EC)

Vak/Course		Sem. 2	EC		
Analytical NMR spectroscopy	5254ANNS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Environmental Measuring Techniques	5264ENMT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
The Analytical Chemist in Industry	5254ANCI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Statistics for Analytical Chemistry	5254ASFA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Protein Analysis	52548PAN6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Spectroscopy	52548ADS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Chemistry (joint degree) - Track Analytical Sciences - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Chemistry (joint degree) - Track Analytical Sciences - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
Fundamentals of Analytical Sciences	5254FUAS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
(Bio) Molecular Spectroscopy	52548BMS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Chemistry (joint degree) - Track Analytical Sciences - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Chemistry (joint degree) - Track Analytical Sciences - Free-choice electives - Year 1 (Suggested elective courses) (30 EC)

Vak/Course		Sem. 2	EC		
Research Project Chemistry - minor	5254RPC18Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Concepts in Chemical Biology	5254CICB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Human and Environmental Toxicology	5254HUET6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master Chemistry (joint degree): ATOSIM****Master's in Chemistry (joint degree): ATOSIM**

Master's in Chemistry (joint degree) - Track ATOSIM - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Chemistry (joint degree) - Track ATOSIM - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Advanced Computational Chemistry	5254ADCC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master Chemistry (joint degree): Molecular Sciences

#### Master's in Chemistry (joint degree): Molecular Sciences

##### Master's in Chemistry (joint degree) - Track Molecular Sciences - Gebonden keuze - Jaar 1 (Constrained Choice)

##### Master's in Chemistry (joint degree) - Track Molecular Sciences - Restricted-choice electives - Year 1 (Constrained Choice) (30 EC)

Vak/Course		Sem. 2	EC		
Nuclear Magnetic Resonance	5254NUMR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Synthetic Organic Chemistry	5254SYOC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Homogeneous Catalysis	5254HOCA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Molecular Computational Chemistry	52548MOC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Synthetic Strategies	5254SYST6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Computational Chemistry	5254ADCC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Spectroscopic Techniques	5254ADST6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Chemistry (joint degree) - Track Molecular Sciences - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

##### Master's in Chemistry (joint degree) - Track Molecular Sciences - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Research Project Chemistry - minor	5254RPC18Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Numerical Techniques	5254NUTE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Relativistic Quantum Chemistry	5254REQC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Scientific Computing and Programming	52548SCP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Ab Initio Molecular Dynamics	5254AIMD6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Biomolecular Simulations	5254BISI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Concepts in Chemical Biology	5254CICB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Molecular Photochemistry	5254MOPH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Second Quantization Techniques in Quantum Chemistry	5254SQT16Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Chemistry (joint degree): Science for Energy and Sustainability

#### Master's in Chemistry (joint degree): Science for Energy and Sustainability

##### Master's in Chemistry (joint degree) - Track Science for Energy and Sustainability - Gebonden keuze - Jaar 1 (Gebonden keuze)

##### Master's in Chemistry (joint degree) - Track Science for Energy and Sustainability - Restricted-choice electives - Year 1 (Gebonden keuze) (24 EC)

Vak/Course		Sem. 2	EC		
Catalysis for Sustainable Energy	5254CFSE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Photovoltaics	5354PHVO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Homogeneous Catalysis	5254HOCA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Organic Photovoltaics	53548ORP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Photosynthesis and Energy	53548PHO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Chemistry (joint degree) - Track Science for Energy and Sustainability - Verplicht - Jaar 1 (Verplichte vakken)

##### Master's in Chemistry (joint degree) - Track Science for Energy and Sustainability - Compulsory - Year 1 (Compulsory courses) (12 EC)

Vak/Course		Sem. 2	EC		
Project Sustainable Future	52548PRS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Chemistry (joint degree) - Track Science for Energy and Sustainability - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

##### Master's in Chemistry (joint degree) - Track Science for Energy and Sustainability - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
Research Project Chemistry - minor	5254RPC18Y		12	<a href="#">Info</a>	<a href="#">Add to planner</a>
Concepts in Chemical Biology	5254CICB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Human and Environmental Toxicology	5254HUET6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree): Advanced Matter and Energy Physics

#### Master's in Physics and Astronomy: Advanced Matter and Energy Physics



## Studiegids - Course Catalogue 2020/2021

### Master's in Physics and Astronomy - Track Advanced Matter and Energy Physics - Gebonden keuze - Jaar 1 (Restricted choice electives 1)

#### Master's in Physics and Astronomy - Track Advanced Matter and Energy Physics - Restricted-choice electives - Year 1 (Restricted choice electives 1) (18 EC)

Vak/Course		Sem. 2	EC		
Photovoltaics	5354PHVO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Ultrafast Laser Physics	53548ULL6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Fermi Quantum Gases	5354FEQG6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Nanophotonics	5354NANO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Organic Photovoltaics	53548ORP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Photosynthesis and Energy	53548PHO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Soft and Porous Matter	5354SOPM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Surface and Interface Science	5354SUIS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
The Science and Technology of Nanolithography	5354NALI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Physics and Astronomy - Track Advanced Matter and Energy Physics - Gebonden keuze - Jaar 1 (Restricted choice electives 2)

#### Master's in Physics and Astronomy - Track Advanced Matter and Energy Physics - Restricted-choice electives - Year 1 (Restricted choice electives 2) (6 EC)

Vak/Course		Sem. 2	EC		
Statistical Physics of Soft and Living Matter	5354SPSL6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Physics and Astronomy - Track Advanced Matter and Energy Physics - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Physics and Astronomy - Track Advanced Matter and Energy Physics - Compulsory - Year 1 (Compulsory courses) (24 EC)

Vak/Course		Sem. 2	EC		
AMEP Lab Project	5354AML6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Hydrodynamics	5354HYDR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree): Astronomy and Astrophysics

#### Master's in Physics and Astronomy: Astronomy and Astrophysics

### Master's in Physics and Astronomy - Track Astronomy and Astrophysics - Gebonden keuze - Jaar 1 (Restricted choice electives 1)

#### Master's in Physics and Astronomy - Track Astronomy and Astrophysics - Restricted-choice electives - Year 1 (Restricted choice electives 1) (18 EC)

Vak/Course		Sem. 2	EC		
Extreme Astrophysics	5354EXAS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Physics and Astronomy - Track Astronomy and Astrophysics - Gebonden keuze - Jaar 1 (Restricted choice electives 2)

#### Master's in Physics and Astronomy - Track Astronomy and Astrophysics - Restricted-choice electives - Year 1 (Restricted choice electives 2) (18 EC)

Vak/Course		Sem. 2	EC		
Astrovaria	5214ASTR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Astroparticle Physics	5354ASPH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Planet Formation and Exoplanets	5214STPF6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Astronomical Interferometry	5354ASIN6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Fluid Dynamics	5214FLDY6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Gravitational Waves	5354GRWA3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
GRAPPA Student Seminar	5354GRSS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Observation Project	5214OBPR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Physics and Astronomy - Track Astronomy and Astrophysics - Verplicht - Jaar 1 (Verplichte vakken)

#### Master's in Physics and Astronomy - Track Astronomy and Astrophysics - Compulsory - Year 1 (Compulsory courses) (9 EC)

Vak/Course		Sem. 2	EC		
Astrophysics Colloquium	5214ASCO0Y		0	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree): Biophysics and Biophotonics

#### Master's in Physics and Astronomy: Biophysics and Biophotonics





## Studiegids - Course Catalogue 2020/2021

**Master's in Physics and Astronomy - Track Biophysics and Biophotonics - Gebonden keuze - Jaar 1 (Restricted choice electives)**  
**Master's in Physics and Astronomy - Track Biophysics and Biophotonics - Restricted-choice electives - Year 1 (Restricted choice electives) (24 EC)**

Vak/Course		Sem. 2	EC		
Dynamics of Biomolecules and Cells	53548DYB6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Hydrodynamics	5354HYDR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Parameter Estimation Applied to Medical & Biological Science	53548PEM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistical Physics of Soft and Living Matter	5354SPSL6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced 3D and 4D Medical Imaging	5354A34M6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Nanophotonics	5354NANO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Photosynthesis and Energy	53548PHO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Tracer Kinetic Modeling	53548TRK6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master's in Physics and Astronomy - Track Biophysics and Biophotonics - Gebonden keuze - Jaar 1 (Trackspecific compulsory)**  
**Master's in Physics and Astronomy - Track Biophysics and Biophotonics - Restricted-choice electives - Year 1 (Trackspecific compulsory) (6 EC)**

Vak/Course		Sem. 2	EC		
Advanced MRI	5354ADMR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Spectroscopy	52548ADS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Literature Review Biophysics and Biophotonics	5354LRBP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree): GRAPPA

#### Master's in Physics and Astronomy: GRAPPA

**Master's in Physics and Astronomy - Track GRAPPA - Gebonden keuze - Jaar 1 (Profile Astro)**

**Master's in Physics and Astronomy - Track GRAPPA - Restricted-choice electives - Year 1 (Profile Astro) (12 EC)**

Vak/Course		Sem. 2	EC		
Astroparticle Physics	5354ASPH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master's in Physics and Astronomy - Track GRAPPA - Gebonden keuze - Jaar 1 (Profile Particle)**

**Master's in Physics and Astronomy - Track GRAPPA - Restricted-choice electives - Year 1 (Profile Particle) (12 EC)**

Vak/Course		Sem. 2	EC		
Particle Physics II	53542PAP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

**Master's in Physics and Astronomy - Track GRAPPA - Gebonden keuze - Jaar 1 (Restricted choice electives)**

**Master's in Physics and Astronomy - Track GRAPPA - Restricted-choice electives - Year 1 (Restricted choice electives) (18 EC)**

Vak/Course		Sem. 2	EC		
Astrovaria	5214ASTR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Quantum Field Theory	5354AQFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Astroparticle Physics	5354ASPH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Flavour Physics and CP Violation	53548CPV3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Mathematical Methods in Theoretical Physics	5354MMIT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Particle Detection A	5354PADA3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Nikhef Project	5354NIPR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Beyond the Standard Model	5354BESM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Gravitational Waves	5354GRWA3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Particle Detection B	5354PADB3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
String Theory	5354STTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
GRAPPA Student Seminar	5354GRSS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree): Science for Energy and Sustainability

#### Master's in Physics and Astronomy: Science for Energy and Sustainability

**Master's in Physics and Astronomy - Track Science for Energy and Sustainability - Gebonden keuze - Jaar 1 (Restricted choice electives)**

**Master's in Physics and Astronomy - Track Science for Energy and Sustainability - Restricted-choice electives - Year 1 (Restricted choice electives) (24 EC)**

Vak/Course		Sem. 2	EC		
Catalysis for Sustainable Energy	5254CFSE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

Photovoltaics	5354PHVO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Homogeneous Catalysis	5254HOCA6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Organic Photovoltaics	53548ORP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Photosynthesis and Energy	53548PHO6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Physics and Astronomy - Track Science for Energy and Sustainability - Verplicht - Jaar 1 (Verplichte vakken)

### Master's in Physics and Astronomy - Track Science for Energy and Sustainability - Compulsory - Year 1 (Compulsory courses) (18 EC)

Vak/Course		Sem. 2	EC		
SfES Project	5354SFPR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Project Sustainable Future	52548PRS6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master Physics and Astronomy (joint degree): Theoretical Physics

### Master's in Physics and Astronomy: Theoretical Physics

### Master's in Physics and Astronomy - Track Theoretical Physics - Gebonden keuze - Jaar 1 (Advanced Topics)

### Master's in Physics and Astronomy - Track Theoretical Physics - Restricted-choice electives - Year 1 (Advanced Topics) (0 EC)

Vak/Course		Sem. 2	EC		
Advanced Topics in Theoretical Physics 2	53542ATT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

### Master's in Physics and Astronomy - Track Theoretical Physics - Gebonden keuze - Jaar 1 (Restricted choice electives)

### Master's in Physics and Astronomy - Track Theoretical Physics - Restricted-choice electives - Year 1 (Restricted choice electives) (21 EC)

Vak/Course		Sem. 2	EC		
Field Theory in Particle Physics	5354FTIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Computing	5334QUCO8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Quantum Information Theory	5334QUIT8Y		8	<a href="#">Info</a>	<a href="#">Add to planner</a>
Topology in Physics	5354TOIP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Quantum Field Theory	5354AQFT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Astroparticle Physics	5354ASPH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Flavour Physics and CP Violation	53548CPV3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Hydrodynamics	5354HYDR6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Mathematical Methods in Theoretical Physics	5354MMIT6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Particle Physics II	53542PAP6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistical Physics of Soft and Living Matter	5354SPSL6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Numerical Methods in Many Body Physics	5354ANMI6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Beyond the Standard Model	5354BESM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Fermi Quantum Gases	5354FEQG6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Gravitational Waves	5354GRWA3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Statistical Physics and Condensed Matter Theory II	53542SPC6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
String Theory	5354STTH6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Advanced Computational Condensed Matter	5354ACCM3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
Field Theory in Particle Physics; extension	5354FTIP3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>
String Theory, extension	5354STTE3Y		3	<a href="#">Info</a>	<a href="#">Add to planner</a>



### Instituut voor Interdisciplinaire Studies

#### Master Brain and Cognitive Sciences: Behavioural Neuroscience

##### Master's in Brain and Cognitive Sciences: Behavioural Neuroscience

Master's in Brain and Cognitive Sciences - Behavioural Neuroscience - Gebonden keuze - Jaar 1 (Gebonden research)

Master's in Brain and Cognitive Sciences - Behavioural Neuroscience - Restricted-choice electives - Year 1 (Gebonden research) (26 EC)

Vak/Course		Sem. 2	EC		
Research Project 1	52441RP00Y	<input checked="" type="checkbox"/>	26	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Brain and Cognitive Sciences - Behavioural Neuroscience - Gebonden keuze - Jaar 2 (Gebonden research)

Master's in Brain and Cognitive Sciences - Behavioural Neuroscience - Restricted-choice electives - Year 2 (Gebonden research) (36 EC)

Vak/Course		Sem. 2	EC		
Research Project 2	52442RP00Y	<input checked="" type="checkbox"/>	36	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Brain and Cognitive Sciences: Cognitive Neuroscience

##### Master's in Brain and Cognitive Sciences: Cognitive Neuroscience

Master's in Brain and Cognitive Sciences - Cognitive Neuroscience - Gebonden keuze - Jaar 1 (Gebonden research)

Master's in Brain and Cognitive Sciences - Cognitive Neuroscience - Restricted-choice electives - Year 1 (Gebonden research) (26 EC)

Vak/Course		Sem. 2	EC		
Research Project 1	52441RP00Y	<input checked="" type="checkbox"/>	26	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Brain and Cognitive Sciences - Cognitive Neuroscience - Gebonden keuze - Jaar 2 (Gebonden research)

Master's in Brain and Cognitive Sciences - Cognitive Neuroscience - Restricted-choice electives - Year 2 (Gebonden research) (36 EC)

Vak/Course		Sem. 2	EC		
Research Project 2	52442RP00Y	<input checked="" type="checkbox"/>	36	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Brain and Cognitive Sciences: Cognitive Science

##### Master's in Brain and Cognitive Sciences: Cognitive Science

Master's in Brain and Cognitive Sciences - Cognitive Science - Gebonden keuze - Jaar 1 (Gebonden research)

Master's in Brain and Cognitive Sciences - Cognitive Science - Restricted-choice electives - Year 1 (Gebonden research) (26 EC)

Vak/Course		Sem. 2	EC		
Research Project 1	52441RP00Y	<input checked="" type="checkbox"/>	26	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Brain and Cognitive Sciences - Cognitive Science - Gebonden keuze - Jaar 2 (Gebonden research)

Master's in Brain and Cognitive Sciences - Cognitive Science - Restricted-choice electives - Year 2 (Gebonden research) (36 EC)

Vak/Course		Sem. 2	EC		
Research Project 2	52442RP00Y	<input checked="" type="checkbox"/>	36	<a href="#">Info</a>	<a href="#">Add to planner</a>

#### Master Brain and Cognitive Sciences

##### Master's in Brain and Cognitive Sciences

Master's in Brain and Cognitive Sciences - Gebonden keuze - Jaar 1 (Specialization Courses)

Master's in Brain and Cognitive Sciences - Restricted-choice electives - Year 1 (Specialization Courses) (6 EC)

Vak/Course		Sem. 2	EC		
Foundations of Neural and Cognitive Modelling	5244FNCM6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Brain and Cognitive Sciences - Verplicht - Jaar 1 (Verplichte vakken)

Master's in Brain and Cognitive Sciences - Compulsory - Year 1 (Compulsory courses) (8 EC)

Vak/Course		Sem. 2	EC		
Special Topic in Cognitive Science	5244STIC6Y	<input checked="" type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Brain and Cognitive Sciences - Vrije keuze - Jaar 1 (Aangeraden keuzevakken)

Master's in Brain and Cognitive Sciences - Free-choice electives - Year 1 (Suggested elective courses) (0 EC)

Vak/Course		Sem. 2	EC		
How Music Works: Music Cognition	5244HMWM6Y	<input type="checkbox"/>	6	<a href="#">Info</a>	<a href="#">Add to planner</a>

Master's in Brain and Cognitive Sciences - Gebonden keuze - Jaar 2 (Graduation project)

Master's in Brain and Cognitive Sciences - Restricted-choice electives - Year 2 (Graduation project) (12 EC)

Vak/Course		Sem. 2	EC		
Literature Thesis Brain and Cognitive Sciences	5244LTB12Y	<input checked="" type="checkbox"/>	12	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

### Master Forensic Science

#### Master's in Forensic Science

##### Master's in Forensic Science - Verplicht - Jaar 1 (Verplichte vakken)

##### Master's in Forensic Science - Compulsory - Year 1 (Compulsory courses) (61 EC)

Vak/Course		Sem. 2	EC		
Professional Development	5274PRDE2Y		2	<a href="#">Info</a>	<a href="#">Add to planner</a>
Cybercrime, Digital Traces and Forensic Data Analysis	5274CDTF6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Forensic Statistics and DNA-evidence	5274FSDE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Chain of Evidence	5274CHEV6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Criminal Law and Expert Evidence	5274CLEE6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>
Policy, Ethics and Media	5274POEM6Y		6	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Forensic Science - Gebonden keuze - Jaar 2 (Graduation project)

##### Master's in Forensic Science - Restricted-choice electives - Year 2 (Graduation project) (41 EC)

Vak/Course		Sem. 2	EC		
Research Project Forensic Science	5274MTF36Y		36	<a href="#">Info</a>	<a href="#">Add to planner</a>

##### Master's in Forensic Science - Verplicht - Jaar 2 (Verplichte vakken)

##### Master's in Forensic Science - Compulsory - Year 2 (Compulsory courses) (2 EC)

Vak/Course		Sem. 2	EC		
Professional Development	5274PRDE2Y		2	<a href="#">Info</a>	<a href="#">Add to planner</a>



## Studiegids - Course Catalogue 2020/2021

Disclaimer studiegids - Course Catalogue 2020-2021

Aan de inhoud van de studiegids van de Universiteit van Amsterdam voor het academische jaar 2020-2021 is de grootst mogelijke zorg besteed. Tussentijds kunnen echter wijzigingen optreden, als gevolg van bijvoorbeeld wijzigingen in de wet, wijzigingen in UvA-regelingen, kabinetsmaatregelen samenhangend met de bestrijding van het coronavirus e.d. Deze wijzigingen prevaleren dan boven de teksten uit deze studiegids. Wanneer dit het geval is, zal dit op passende wijze bekend worden gemaakt via Canvas.

The contents of the Course Catalogue of the University of Amsterdam have been written with the greatest possible care. However, some changes may be made in the near future as a result of, for example, changes in the law, changes in UvA regulations, governmental measures to limit the coronavirus outbreak, etc. Text adaptations resulting from such changes take precedence over the texts in this Course Catalogue, and will be communicated as promptly as possible via Canvas.