Description of Module guest studies
105 Mathematics
PO-Version 2020

FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

Contents summary

Note : Please note that you can find the information on examinations, courses corresponding to the examinations, and examination dates in the portal Friedolin under the menu item ‘Browse module descriptions’. After logging in, please choose your degree, your study programme, and respective module. Any immediate changes made will be displayed promptly.

Modul **FMI-BI0048** Scripting languages and their applications	
Module code	FMI-BI0048
Module title (German)	Skriptsprachen und Anwendungen (ASQ)
Module title (English)	Scripting languages and their applications
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-BI0057** Introduction to LaTeX for scientists	
Module code	FMI-BI0057
Module title (German)	LaTeX Grundlagen für Naturwissenschaftler und Informatiker
Module title (English)	Introduction to LaTeX for scientists
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-BI0058** Scripting languages in applied bioinformatics	
Module code	FMI-BI0058
Module title (German)	Skriptsprachen in der Bioinformatik (ASQ)
Module title (English)	Scripting languages in applied bioinformatics
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-IN0001** Algorithms and Data Structures	
Module code	FMI-IN0001
Module title (German)	Algorithmen und Datenstrukturen
Module title (English)	Algorithms and Data Structures
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-IN0005** Automata and Computability	
Module code	FMI-IN0005
Module title (German)	Automaten und Berechenbarkeit
Module title (English)	Automata and Computability
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-IN0006** Computability and Complexity	
Module code	FMI-IN0006
Module title (German)	Berechenbarkeit und Komplexität
Module title (English)	Computability and Complexity
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0011** Database Systems Specialization	
Module code	FMI-IN0011
Module title (German)	Datenbanksysteme Spezialisierung
Module title (English)	Database Systems Specialization
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0013** Discrete Structures I	
Module code	FMI-IN0013
Module title (German)	Diskrete Strukturen I
Module title (English)	Discrete Structures I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0016** Introduction to Visual Computing	
Module code	FMI-IN0016
Module title (German)	Einführung in die Bildinformatik
Module title (English)	Introduction to Visual Computing
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0017** Introduction to Artificial Intelligence	
Module code	FMI-IN0017
Module title (German)	Einführung in die Künstliche Intelligenz
Module title (English)	Introduction to Artificial Intelligence
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0018** Introduction to Artificial Neural Networks	
Module code	FMI-IN0018
Module title (German)	Einführung in die Theorie künstlicher Neuronaler Netze
Module title (English)	Introduction to Artificial Neural Networks
Frequency of offer (how often is the module offered?)	Every second year (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0025** Foundations of Computational Problem Solving	
Module code	FMI-IN0025
Module title (German)	Grundlagen informatischer Problemlösung
Module title (English)	Foundations of Computational Problem Solving
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-IN0028** Computational Complexity - 6 CP	
Module code	FMI-IN0028
Module title (German)	Komplexitätstheorie - 6 LP
Module title (English)	Computational Complexity - 6 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 75 h 105 h

Modul **FMI-IN0030** Cryptology	
Module code	FMI-IN0030
Module title (German)	Kryptologie
Module title (English)	Cryptology
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0031** Computational Complexity	
Module code	FMI-IN0031
Module title (German)	Komplexitätstheorie - 3 LP
Module title (English)	Computational Complexity
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0032** Literature research and presentation	
Module code	FMI-IN0032
Module title (German)	Literaturarbeit und Präsentation (ASQ)
Module title (English)	Literature research and presentation
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0033** Logical Systems	
Module code	FMI-IN0033
Module title (German)	Logiksysteme
Module title (English)	Logical Systems
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0034** Machine Learning and Datamining	
Module code	FMI-IN0034
Module title (German)	Maschinelles Lernen und Datamining
Module title (English)	Machine Learning and Datamining
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0036** Pattern Recognition	
Module code	FMI-IN0036
Module title (German)	Mustererkennung
Module title (English)	Pattern Recognition
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0045** Project Management	
Module code	FMI-IN0045
Module title (German)	Projektmanagement (ASQ)
Module title (English)	Project Management
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0046** Computer Vision I	
Module code	FMI-IN0046
Module title (German)	Rechnersehen I
Module title (English)	Computer Vision I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0050** Seminar Algorithmics	
Module code	FMI-IN0050
Module title (German)	Seminar Theoretische Informatik/Algorithmik
Module title (English)	Seminar Algorithmics
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0052** Softwareengineering Specialization I	
Module code	FMI-IN0052
Module title (German)	Softwaretechnik Spezialisierung I
Module title (English)	Softwareengineering Specialization I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0055** System Software	
Module code	FMI-IN0055
Module title (German)	Systemsoftware
Module title (English)	System Software
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0058** Distributed Systems Specialization I	
Module code	FMI-IN0058
Module title (German)	Verteilte Systeme Spezialisierung I
Module title (English)	Distributed Systems Specialization I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0060** Distributed Systems and Web Development	
Module code	FMI-IN0060
Module title (German)	Verteilte Systeme
Module title (English)	Distributed Systems and Web Development
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0062** Motion Computation from Image Sequences	
Module code	FMI-IN0062
Module title (German)	Bewegungsberechnung aus Bildfolgen
Module title (English)	Motion Computation from Image Sequences
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0067** Mobile Code	
Module code	FMI-IN0067
Module title (German)	Mobiler Code
Module title (English)	Mobile Code
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0075** Object-oriented Programming	
Module code	FMI-IN0075
Module title (German)	Objektorientierte Programmierung
Module title (English)	Object-oriented Programming
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	5 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	150 h 60 h 90 h

Modul **FMI-IN0076** Declarative Programming	
Module code	FMI-IN0076
Module title (German)	Deklarative Programmierung
Module title (English)	Declarative Programming
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-IN0082** Logic and Provability	
Module code	FMI-IN0082
Module title (German)	Logik und Beweisbarkeit
Module title (English)	Logic and Provability
Frequency of offer (how often is the module offered?)	Every second year (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 75 h 105 h

Modul **FMI-IN0086** Tools for Pattern Recognition and Machine Learning	
Module code	FMI-IN0086
Module title (German)	Werkzeuge der Mustererkennung und des Maschinellen Lernens
Module title (English)	Tools for Pattern Recognition and Machine Learning
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0095** Computational Geometry I	
Module code	FMI-IN0095
Module title (German)	Algorithmische Geometrie I
Module title (English)	Computational Geometry I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 90 h 90 h

Modul **FMI-IN0096** Algorithmic Foundations of Machine Learning	
Module code	FMI-IN0096
Module title (German)	Algorithmische Grundlagen des maschinellen Lernens
Module title (English)	Algorithmic Foundations of Machine Learning
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 90 h 90 h

Modul **FMI-IN0104** Seminar Algorithmics	
Module code	FMI-IN0104
Module title (German)	Seminar Algorithmik
Module title (English)	Seminar Algorithmics
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0114** Programming in C++	
Module code	FMI-IN0114
Module title (German)	Programmieren in C++
Module title (English)	Programming in C++
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0121** IT Security	
Module code	FMI-IN0121
Module title (German)	IT-Sicherheit
Module title (English)	IT Security
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0125** Automatic Differentiation	
Module code	FMI-IN0125
Module title (German)	Automatisches Differenzieren
Module title (English)	Automatic Differentiation
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0126** High-Performance Computing	
Module code	FMI-IN0126
Module title (German)	Hochleistungsrechnen
Module title (English)	High-Performance Computing
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0134** Visual object recognition	
Module code	FMI-IN0134
Module title (German)	Visuelle Objekterkennung
Module title (English)	Visual object recognition
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0144** Advanced Labs for Computer Science	
Module code	FMI-IN0144
Module title (German)	Fortgeschrittenes Programmierpraktikum
Module title (English)	Advanced Labs for Computer Science
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0157** Statistical Learning Theory (Lab)	
Module code	FMI-IN0157
Module title (German)	Statistische Lerntheorie (Lab)
Module title (English)	Statistical Learning Theory (Lab)
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0158** Proof Complexity and Solving	
Module code	FMI-IN0158
Module title (German)	Algorithmisches Beweisen
Module title (English)	Proof Complexity and Solving
Frequency of offer (how often is the module offered?)	Every second semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 90 h 90 h

Modul **FMI-IN0159** Proof Complexity and Solving LAB	
Module code	FMI-IN0159
Module title (German)	Algorithmisches Beweisen LAB
Module title (English)	Proof Complexity and Solving LAB
Frequency of offer (how often is the module offered?)	Every second semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-IN0160** Computational Complexity LAB	
Module code	FMI-IN0160
Module title (German)	Komplexitätstheorie LAB
Module title (English)	Computational Complexity LAB
Frequency of offer (how often is the module offered?)	Every second semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-IN0162** Cryptology LAB	
Module code	FMI-IN0162
Module title (German)	Kryptologie LAB
Module title (English)	Cryptology LAB
Frequency of offer (how often is the module offered?)	Every second semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-IN0206** Companion Seminar for Computer Science Events	
Module code	FMI-IN0206
Module title (German)	Begleitseminar zu einer Veranstaltung der Informatik (ASQ)
Module title (English)	Companion Seminar for Computer Science Events
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0208** Essentials and Techniques of Network Analysis	
Module code	FMI-IN0208
Module title (German)	Grundlagen und Techniken der Netzwerkanalyse (ASQ)
Module title (English)	Essentials and Techniques of Network Analysis
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN0211** Teaching and Learning of Computer Science	
Module code	FMI-IN0211
Module title (German)	Lehren von Informatik - Lernen von Informatik
Module title (English)	Teaching and Learning of Computer Science
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN0212** Introduction to Business Process Modeling and Management	
Module code	FMI-IN0212
Module title (German)	Grundlagen der Prozessmodellierung und des Prozessmanagements
Module title (English)	Introduction to Business Process Modeling and Management
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN2000** Database and Information Systems	
Module code	FMI-IN2000
Module title (German)	Datenbanken und Informationssysteme
Module title (English)	Database and Information Systems
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN3008** Software and System Development	
Module code	FMI-IN3008
Module title (German)	Software- und Systementwicklung
Module title (English)	Software and System Development
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN3131** Master Module Theoretical Computer Science I - 3 CP	
Module code	FMI-IN3131
Module title (German)	Mastermodul Algorithmik/Theoretische Informatik I - 3 LP
Module title (English)	Master Module Theoretical Computer Science I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN3132** Master Module Theoretical Computer Science II - 3 CP	
Module code	FMI-IN3132
Module title (German)	Mastermodul Algorithmik/Theoretische Informatik II - 3 LP
Module title (English)	Master Module Theoretical Computer Science II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-IN3161** Master Module Theoretical Computer Science I - 6 CP	
Module code	FMI-IN3161
Module title (German)	Mastermodul Algorithmik/Theoretische Informatik I - 6 LP
Module title (English)	Master Module Theoretical Computer Science I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN3162** Master Module Theoretical Computer Science II - 6 CP	
Module code	FMI-IN3162
Module title (German)	Mastermodul Algorithmik/Theoretische Informatik II - 6 LP
Module title (English)	Master Module Theoretical Computer Science II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-IN3191** Master Module Theoretical Computer Science I - 9 CP	
Module code	FMI-IN3191
Module title (German)	Mastermodul Algorithmik/Theoretische Informatik I - 9 LP
Module title (English)	Master Module Theoretical Computer Science I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-IN3192** Master Module Theoretical Computer Science II - 9 CP	
Module code	FMI-IN3192
Module title (German)	Mastermodul Algorithmik/Theoretische Informatik II - 9 LP
Module title (English)	Master Module Theoretical Computer Science II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0101** Algebra 1	
Module code	FMI-MA0101
Module title (German)	Algebra 1
Module title (English)	Algebra 1
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0102** Algebra 2	
Module code	FMI-MA0102
Module title (German)	Algebra 2
Module title (English)	Algebra 2
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0104** Coding Theory with Exercises - 9 CP	
Module code	FMI-MA0104
Module title (German)	Codierungstheorie- 9 LP
Module title (English)	Coding Theory with Exercises - 9 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0106** Group Theory	
Module code	FMI-MA0106
Module title (German)	Gruppentheorie - 9 LP
Module title (English)	Group Theory
Frequency of offer (how often is the module offered?)	Every second year (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0111** Algebraic Topology	
Module code	FMI-MA0111
Module title (German)	Algebraische Topologie
Module title (English)	Algebraic Topology
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0112** Combinatorics	
Module code	FMI-MA0112
Module title (German)	Kombinatorik
Module title (English)	Combinatorics
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0113** Knots and low-dimensional Manifolds	
Module code	FMI-MA0113
Module title (German)	Knoten und niedrigdimensionale Mannigfaltigkeiten
Module title (English)	Knots and low-dimensional Manifolds
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0144** Coding Theory	
Module code	FMI-MA0144
Module title (German)	Codierungstheorie
Module title (English)	Coding Theory
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0149** Topology I	
Module code	FMI-MA0149
Module title (German)	Topologie
Module title (English)	Topology I
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0181** Proseminar Algebra	
Module code	FMI-MA0181
Module title (German)	Proseminar Algebra
Module title (English)	Proseminar Algebra
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0182** Seminar Algebra (Bachelor)	
Module code	FMI-MA0182
Module title (German)	Seminar Algebra - Bachelor
Module title (English)	Seminar Algebra (Bachelor)
Frequency of offer (how often is the module offered?)	Every second semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0201** Analysis I	
Module code	FMI-MA0201
Module title (German)	Analysis 1
Module title (English)	Analysis I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-MA0202** Analysis II	
Module code	FMI-MA0202
Module title (German)	Analysis 2
Module title (English)	Analysis II
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-MA0203** Analysis 3	
Module code	FMI-MA0203
Module title (German)	Analysis 3
Module title (English)	Analysis 3
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0204** Approximation Theory 1	
Module code	FMI-MA0204
Module title (German)	Approximationstheorie 1 - 9 LP
Module title (English)	Approximation Theory 1
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0207** Higher Analysis I	
Module code	FMI-MA0207
Module title (German)	Höhere Analysis 1
Module title (English)	Higher Analysis I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0242** Fourier Analysis 1	
Module code	FMI-MA0242
Module title (German)	Fourieranalysis 1
Module title (English)	Fourier Analysis 1
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0243** Complex Analysis 1	
Module code	FMI-MA0243
Module title (German)	Funktionentheorie 1
Module title (English)	Complex Analysis 1
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0244** Ordinary Differential Equations	
Module code	FMI-MA0244
Module title (German)	Gewöhnliche Differentialgleichungen
Module title (English)	Ordinary Differential Equations
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0270** Discrete Schrödingeroperators	
Module code	FMI-MA0270
Module title (German)	Diskrete Schrödingeroperatoren
Module title (English)	Discrete Schrödingeroperators
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0281** Proseminar Analysis	
Module code	FMI-MA0281
Module title (German)	Proseminar Analysis
Module title (English)	Proseminar Analysis
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0282** Seminar Analysis Bachelor	
Module code	FMI-MA0282
Module title (German)	Seminar Analysis - Bachelor
Module title (English)	Seminar Analysis Bachelor
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0289** Distributions	
Module code	FMI-MA0289
Module title (German)	Distributionen
Module title (English)	Distributions
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0301** Algebra/Geometry I	
Module code	FMI-MA0301
Module title (German)	Algebra/Geometrie 1
Module title (English)	Algebra/Geometry I
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-MA0302** Algebra/Geometry 2	
Module code	FMI-MA0302
Module title (German)	Algebra/Geometrie 2
Module title (English)	Algebra/Geometry 2
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-MA0402** Fractal Geometry	
Module code	FMI-MA0402
Module title (German)	Fraktale Geometrie
Module title (English)	Fractal Geometry
Frequency of offer (how often is the module offered?)	Every second year (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0404** Convec and Metric Geometry - 9 CP	
Module code	FMI-MA0404
Module title (German)	Konvexe und metrische Geometrie - 9 LP
Module title (English)	Convec and Metric Geometry - 9 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0405** Mathematical Methods of classical Mechanics - 9 CP	
Module code	FMI-MA0405
Module title (German)	Mathematische Methoden der klassischen Mechanik - 9 LP
Module title (English)	Mathematical Methods of classical Mechanics - 9 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0406** Classical Differential Geometry - 9 CP	
Module code	FMI-MA0406
Module title (German)	Klassische Differentialgeometrie - 9 LP
Module title (English)	Classical Differential Geometry - 9 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0408** Analysis on Manifolds - 6 CP	
Module code	FMI-MA0408
Module title (German)	Analysis auf Mannigfaltigkeiten - 6 LP
Module title (English)	Analysis on Manifolds - 6 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0409** Analysis on Manifolds - 9 CP	
Module code	FMI-MA0409
Module title (German)	Analysis auf Mannigfaltigkeiten - 9 LP
Module title (English)	Analysis on Manifolds - 9 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0442** Fractal Geometry	
Module code	FMI-MA0442
Module title (German)	Fraktale Geometrie
Module title (English)	Fractal Geometry
Frequency of offer (how often is the module offered?)	Every second year (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0444** Convex and Metric Geometry	
Module code	FMI-MA0444
Module title (German)	Konvexe und metrische Geometrie - 6 LP
Module title (English)	Convex and Metric Geometry
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0445** Mathematical methods of classical mechanics - 6 CP	
Module code	FMI-MA0445
Module title (German)	Mathematische Methoden der klassischen Mechanik - 6 LP
Module title (English)	Mathematical methods of classical mechanics - 6 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0446** Classical differential geometry	
Module code	FMI-MA0446
Module title (German)	Klassische Differentialgeometrie - 6 LP
Module title (English)	Classical differential geometry
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0450** Integral Geometry	
Module code	FMI-MA0450
Module title (German)	Integralgeometrie
Module title (English)	Integral Geometry
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0481** Proseminar Geometry	
Module code	FMI-MA0481
Module title (German)	Proseminar Geometrie
Module title (English)	Proseminar Geometry
Frequency of offer (how often is the module offered?)	In the winter, if necessary also in the summer
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0482** Seminar Geometry Bachelor	
Module code	FMI-MA0482
Module title (German)	Seminar Geometrie - Bachelor
Module title (English)	Seminar Geometry Bachelor
Frequency of offer (how often is the module offered?)	In the summer, if necessary also in the winter
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0500** Introduction to Numerical Analysis and Scientific Computing	
Module code	FMI-MA0500
Module title (German)	Einführung in die Numerische Mathematik und das Wissenschaftliche Rechnen
Module title (English)	Introduction to Numerical Analysis and Scientific Computing
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0501** Methods of Numerical Analysis and Scientific Computing in Practise	
Module code	FMI-MA0501
Module title (German)	Verfahren der Numerischen Mathematik und des Wissenschaftlichen Rechnens im Einsatz
Module title (English)	Methods of Numerical Analysis and Scientific Computing in Practise
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0510** Seminar Scientific Computing Bachelor	
Module code	FMI-MA0510
Module title (German)	Seminar Wissenschaftliches Rechnen -Bachelor
Module title (English)	Seminar Scientific Computing Bachelor
Frequency of offer (how often is the module offered?)	In the summer, if necessary also in the winter
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0520** Numerical Methods of Boundary Value Problems - 9 CP	
Module code	FMI-MA0520
Module title (German)	Numerik von Randwertproblemen - 9 LP
Module title (English)	Numerical Methods of Boundary Value Problems - 9 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0521** Numerical Methods of Boundary Value Problems - 6 CP	
Module code	FMI-MA0521
Module title (German)	Numerik von Randwertproblemen - 6 LP
Module title (English)	Numerical Methods of Boundary Value Problems - 6 CP
Frequency of offer (how often is the module offered?)	Every second year (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0552** Proseminar Numerical Analysis	
Module code	FMI-MA0552
Module title (German)	Proseminar Numerische Mathematik
Module title (English)	Proseminar Numerical Analysis
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0553** Seminar Numerical Analysis Bachelor	
Module code	FMI-MA0553
Module title (German)	Seminar Numerische Mathematik - Bachelor
Module title (English)	Seminar Numerical Analysis Bachelor
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0601** Linear Optimization	
Module code	FMI-MA0601
Module title (German)	Lineare Optimierung
Module title (English)	Linear Optimization
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0602** Discrete Optimization	
Module code	FMI-MA0602
Module title (German)	Diskrete Optimierung
Module title (English)	Discrete Optimization
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0605** Continuous Optimization	
Module code	FMI-MA0605
Module title (German)	Kontinuierliche Optimierung
Module title (English)	Continuous Optimization
Frequency of offer (how often is the module offered?)	Every second year (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA0642** Introduction to Discrete Optimization	
Module code	FMI-MA0642
Module title (German)	Einführung in die diskrete Optimierung
Module title (English)	Introduction to Discrete Optimization
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0644** Introduction to Continous Optimization	
Module code	FMI-MA0644
Module title (German)	Einführung in die kontinuierliche Optimierung
Module title (English)	Introduction to Continous Optimization
Frequency of offer (how often is the module offered?)	Every second year (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0681** Seminar Optimization	
Module code	FMI-MA0681
Module title (German)	Seminar Optimierung - Bachelor
Module title (English)	Seminar Optimization
Frequency of offer (how often is the module offered?)	In the winter, if necessary also in the summer
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0691** Practical Optimization	
Module code	FMI-MA0691
Module title (German)	Praktische Optimierung
Module title (English)	Practical Optimization
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0707** Insurance Mathematics	
Module code	FMI-MA0707
Module title (German)	Einführung in die Versicherungsmathematik
Module title (English)	Insurance Mathematics
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0708** Methods of Insurance and Financial Mathematics	
Module code	FMI-MA0708
Module title (German)	Verfahren der Versicherungs- und Finanzmathematik
Module title (English)	Methods of Insurance and Financial Mathematics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0710** Introduction into Probability Theory and Mathematical Statistics	
Module code	FMI-MA0710
Module title (German)	Einführung in Wahrscheinlichkeitstheorie und Mathematische Statistik
Module title (English)	Introduction into Probability Theory and Mathematical Statistics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0711** Measure Theory	
Module code	FMI-MA0711
Module title (German)	Maßtheorie
Module title (English)	Measure Theory
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0712** Stochastics	
Module code	FMI-MA0712
Module title (German)	Stochastik
Module title (English)	Stochastics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0741** Statistical Methods	
Module code	FMI-MA0741
Module title (German)	Statistische Verfahren
Module title (English)	Statistical Methods
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA0781** Seminar Statistics Bachelor	
Module code	FMI-MA0781
Module title (German)	Seminar Statistik - Bachelor
Module title (English)	Seminar Statistics Bachelor
Frequency of offer (how often is the module offered?)	In the winter, if necessary also in the summer
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0782** Seminar Probabilty Theory Bachelor	
Module code	FMI-MA0782
Module title (German)	Seminar Wahrscheinlichkeitstheorie - Bachelor
Module title (English)	Seminar Probabilty Theory Bachelor
Frequency of offer (how often is the module offered?)	In the winter, if necessary also in the summer
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0791** Proseminar Stochastics	
Module code	FMI-MA0791
Module title (German)	Proseminar Stochastik
Module title (English)	Proseminar Stochastics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0904** Business Skills A	
Module code	FMI-MA0904
Module title (German)	Wirtschaftskompetenz A (ASQ)
Module title (English)	Business Skills A
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA0905** Business Skills B	
Module code	FMI-MA0905
Module title (German)	Wirtschaftskompetenz B (ASQ)
Module title (English)	Business Skills B
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA1106** Algebraic Groups	
Module code	FMI-MA1106
Module title (German)	Algebraische Gruppen
Module title (English)	Algebraic Groups
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA1276** Aperiodic Order - 6 CP	
Module code	FMI-MA1276
Module title (German)	Aperiodische Ordnung
Module title (English)	Aperiodic Order - 6 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3004** Geometry	
Module code	FMI-MA3004
Module title (German)	Geometrie für Lehramtsstudierende
Module title (English)	Geometry
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	7 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	210 h 75 h 135 h

Modul **FMI-MA3005** Scientific Computing	
Module code	FMI-MA3005
Module title (German)	Praktische Mathematik und Modellierung: Wissenschaftliches Rechnen
Module title (English)	Scientific Computing
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3006** Optimization	
Module code	FMI-MA3006
Module title (German)	Praktische Mathematik und Modellierung: Optimierung
Module title (English)	Optimization
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3007** Elementary Methods of Numerics	
Module code	FMI-MA3007
Module title (German)	Elementare Methoden der Numerischen Mathematik
Module title (English)	Elementary Methods of Numerics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3009** Analysis 1	
Module code	FMI-MA3009
Module title (German)	Analysis 1
Module title (English)	Analysis 1
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 90 h 90 h

Modul **FMI-MA3010** Analysis 2	
Module code	FMI-MA3010
Module title (German)	Analysis 2
Module title (English)	Analysis 2
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-MA3011** Analysis 3	
Module code	FMI-MA3011
Module title (German)	Analysis 3
Module title (English)	Analysis 3
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 90 h 90 h

Modul **FMI-MA3015** Elementary Geometry	
Module code	FMI-MA3015
Module title (German)	Elementare Geometrie
Module title (English)	Elementary Geometry
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	7 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	210 h 60 h 150 h

Modul **FMI-MA3023** Linear Algebra and Analytic Geometry 1	
Module code	FMI-MA3023
Module title (German)	Lineare Algebra und Analytische Geometrie 1
Module title (English)	Linear Algebra and Analytic Geometry 1
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	260 h 120 h 150 h

Modul **FMI-MA3027** Probability and Statistics for Trainee Teachers	
Module code	FMI-MA3027
Module title (German)	Wahrscheinlichkeitstheorie und Statistik für Lehramtsstudierende
Module title (English)	Probability and Statistics for Trainee Teachers
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3028** Markov Chains and Stochastic Simulation	
Module code	FMI-MA3028
Module title (German)	Markov-Ketten und stochastische Simulation
Module title (English)	Markov Chains and Stochastic Simulation
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3029** Elementary Probability Theory and Statistics	
Module code	FMI-MA3029
Module title (German)	Elementare Wahrscheinlichkeitstheorie und Statistik
Module title (English)	Elementary Probability Theory and Statistics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 120 h 150 h

Modul **FMI-MA3030** Linear Algebra and Analytical Geometry 2	
Module code	FMI-MA3030
Module title (German)	Lineare Algebra und Analytische Geometrie 2
Module title (English)	Linear Algebra and Analytical Geometry 2
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 90 h 90 h

Modul **FMI-MA3035** Seminar 1	
Module code	FMI-MA3035
Module title (German)	Seminar 1 (Proseminar)
Module title (English)	Seminar 1
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	2 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3036** Seminar 2	
Module code	FMI-MA3036
Module title (German)	Seminar 2
Module title (English)	Seminar 2
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3050** Algebra for Trainee Teachers	
Module code	FMI-MA3050
Module title (German)	Algebra für Lehramtsstudierende
Module title (English)	Algebra for Trainee Teachers
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3052** Advanced Analysis for Trainee Teachers	
Module code	FMI-MA3052
Module title (German)	Fortgeschrittene Analysis für Lehramtsstudierende
Module title (English)	Advanced Analysis for Trainee Teachers
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3053** Algebra/Number Theory for Trainee Teachers	
Module code	FMI-MA3053
Module title (German)	Algebra/Zahlentheorie für Lehramtsstudierende
Module title (English)	Algebra/Number Theory for Trainee Teachers
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3055** Simplical Homology for Trainee Teachers	
Module code	FMI-MA3055
Module title (German)	Simpliziale Homologie für Lehramtsstudierende
Module title (English)	Simplical Homology for Trainee Teachers
Frequency of offer (how often is the module offered?)	Every second year (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3131** Master Module Algebra /Number Theory I - 3 CP	
Module code	FMI-MA3131
Module title (German)	Mastermodul Algebra/Zahlentheorie I - 3 LP
Module title (English)	Master Module Algebra /Number Theory I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3132** Master Module Algebra /Number Theory II - 3 CP	
Module code	FMI-MA3132
Module title (German)	Mastermodul Algebra/Zahlentheorie II - 3 LP
Module title (English)	Master Module Algebra /Number Theory II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3161** Master Module Algebra /Number Theory I - 6 CP	
Module code	FMI-MA3161
Module title (German)	Mastermodul Algebra/Zahlentheorie I - 6 LP
Module title (English)	Master Module Algebra /Number Theory I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3162** Master Module Algebra /Number Theory II - 6 CP	
Module code	FMI-MA3162
Module title (German)	Mastermodul Algebra/Zahlentheorie II - 6 LP
Module title (English)	Master Module Algebra /Number Theory II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3191** Master Module Algebra /Number Theory I - 9 CP	
Module code	FMI-MA3191
Module title (German)	Mastermodul Algebra/Zahlentheorie I - 9 LP
Module title (English)	Master Module Algebra /Number Theory I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3192** Master Module Algebra /Number Theory II - 9 CP	
Module code	FMI-MA3192
Module title (German)	Mastermodul Algebra/Zahlentheorie II - 9 LP
Module title (English)	Master Module Algebra /Number Theory II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3231** Master Module Analysis I - 3 CP	
Module code	FMI-MA3231
Module title (German)	Mastermodul Analysis I - 3 LP
Module title (English)	Master Module Analysis I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3232** Master Module Analysis II - 3 CP	
Module code	FMI-MA3232
Module title (German)	Mastermodul Analysis II - 3 LP
Module title (English)	Master Module Analysis II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3261** Master Module Analysis I - 6 CP	
Module code	FMI-MA3261
Module title (German)	Mastermodul Analysis I - 6 LP
Module title (English)	Master Module Analysis I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3262** Master Module Analysis II - 6 CP	
Module code	FMI-MA3262
Module title (German)	Mastermodul Analysis II - 6 LP
Module title (English)	Master Module Analysis II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3291** Master Module Analysis I - 9 CP	
Module code	FMI-MA3291
Module title (German)	Mastermodul Analysis I - 9 LP
Module title (English)	Master Module Analysis I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3292** Master Module Analysis II - 9 CP	
Module code	FMI-MA3292
Module title (German)	Mastermodul Analysis II - 9 LP
Module title (English)	Master Module Analysis II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3331** Master Module Geometry I - 3 CP	
Module code	FMI-MA3331
Module title (German)	Mastermodul Geometrie I - 3 LP
Module title (English)	Master Module Geometry I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3332** Master Module Geometry II - 3 CP	
Module code	FMI-MA3332
Module title (German)	Mastermodul Geometrie II - 3 LP
Module title (English)	Master Module Geometry II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3361** Master Module Geometry I - 6 CP	
Module code	FMI-MA3361
Module title (German)	Mastermodul Geometrie I - 6 LP
Module title (English)	Master Module Geometry I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3362** Master Module Geometry II - 6 CP	
Module code	FMI-MA3362
Module title (German)	Mastermodul Geometrie II - 6 LP
Module title (English)	Master Module Geometry II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3391** Master Module Geometry I - 9 CP	
Module code	FMI-MA3391
Module title (German)	Mastermodul Geometrie I - 9 LP
Module title (English)	Master Module Geometry I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3392** Master Module Geometry II - 9 CP	
Module code	FMI-MA3392
Module title (German)	Mastermodul Geometrie II - 9 LP
Module title (English)	Master Module Geometry II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3431** Master Module Numerical Analysis / Scientific Computing I - 3 CP	
Module code	FMI-MA3431
Module title (German)	Mastermodul Numerische Mathematik/Wissenschaftliches Rechnen I - 3 LP
Module title (English)	Master Module Numerical Analysis / Scientific Computing I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3432** Master Module Numerical Analysis / Scientific Computing II - 3 CP	
Module code	FMI-MA3432
Module title (German)	Mastermodul Numerische Mathematik/Wissenschaftliches Rechnen II - 3 LP
Module title (English)	Master Module Numerical Analysis / Scientific Computing II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3461** Master Module Numerical Analysis / Scientific Computing I - 6 CP	
Module code	FMI-MA3461
Module title (German)	Mastermodul Numerische Mathematik/Wissenschaftliches Rechnen I - 6 LP
Module title (English)	Master Module Numerical Analysis / Scientific Computing I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3462** Master Module Numerical Analysis / Scientific Computing II - 6 CP	
Module code	FMI-MA3462
Module title (German)	Mastermodul Numerische Mathematik/Wissenschaftliches Rechnen II - 6 LP
Module title (English)	Master Module Numerical Analysis / Scientific Computing II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3491** Master Module Numerical Analysis / Scientific Computing I - 9 CP	
Module code	FMI-MA3491
Module title (German)	Mastermodul Numerische Mathematik/Wissenschaftliches Rechnen I - 9 LP
Module title (English)	Master Module Numerical Analysis / Scientific Computing I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3492** Master Module Numerical Analysis / Scientific Computing II - 9 CP	
Module code	FMI-MA3492
Module title (German)	Mastermodul Numerische Mathematik/Wissenschaftliches Rechnen II - 9 LP
Module title (English)	Master Module Numerical Analysis / Scientific Computing II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3531** Master Module Optimization I - 3 CP	
Module code	FMI-MA3531
Module title (German)	Mastermodul Optimierung I - 3 LP
Module title (English)	Master Module Optimization I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3532** Master Module Optimization II - 3 CP	
Module code	FMI-MA3532
Module title (German)	Mastermodul Optimierung II - 3 LP
Module title (English)	Master Module Optimization II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3561** Master Module Optimization I - 6 CP	
Module code	FMI-MA3561
Module title (German)	Mastermodul Optimierung I - 6 LP
Module title (English)	Master Module Optimization I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3562** Master Module Optimization II - 6 CP	
Module code	FMI-MA3562
Module title (German)	Mastermodul Optimierung II - 6 LP
Module title (English)	Master Module Optimization II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3591** Master Module Optimization I - 9 CP	
Module code	FMI-MA3591
Module title (German)	Mastermodul Optimierung I - 9 LP
Module title (English)	Master Module Optimization I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3592** Master Module Optimization II - 9 CP	
Module code	FMI-MA3592
Module title (German)	Mastermodul Optimierung II - 9 LP
Module title (English)	Master Module Optimization II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3631** Master Module Stochastics I - 3 CP	
Module code	FMI-MA3631
Module title (German)	Mastermodul Stochastik I - 3 LP
Module title (English)	Master Module Stochastics I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3632** Master Module Stochastics II - 3 CP	
Module code	FMI-MA3632
Module title (German)	Mastermodul Stochastik II - 3 LP
Module title (English)	Master Module Stochastics II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3661** Master Module Stochastics I - 6 CP	
Module code	FMI-MA3661
Module title (German)	Mastermodul Stochastik I - 6 LP
Module title (English)	Master Module Stochastics I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3662** Master Module Stochastics II - 6 CP	
Module code	FMI-MA3662
Module title (German)	Mastermodul Stochastik II - 6 LP
Module title (English)	Master Module Stochastics II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-MA3691** Master Module Stochastics I - 9 CP	
Module code	FMI-MA3691
Module title (German)	Mastermodul Stochastik I - 9 LP
Module title (English)	Master Module Stochastics I - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3692** Master Module Stochastics II - 9 CP	
Module code	FMI-MA3692
Module title (German)	Mastermodul Stochastik II - 9 LP
Module title (English)	Master Module Stochastics II - 9 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	9 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	270 h 90 h 180 h

Modul **FMI-MA3801** Master Module Seminar I	
Module code	FMI-MA3801
Module title (German)	Mastermodul Seminar 1
Module title (English)	Master Module Seminar I
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3802** Master Module Seminar II	
Module code	FMI-MA3802
Module title (German)	Mastermodul Seminar 2
Module title (English)	Master Module Seminar II
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-MA3811** Master Module Project	
Module code	FMI-MA3811
Module title (German)	Mastermodul Projekt
Module title (English)	Master Module Project
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	6 week(s)
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h - h - h

Modul **FMI-MA4003** Mathematics Education A	
Module code	FMI-MA4003
Module title (German)	Didaktik der Mathematik A-Gy
Module title (English)	Mathematics Education A
Frequency of offer (how often is the module offered?)	Every second semester (beginning in summer semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	150 h 60 h 90 h

Modul **FMI-SQ0101** ASQ Module Programming Languages and Programming I - 3 CP	
Module code	FMI-SQ0101
Module title (German)	ASQ-Modul Programmiersprachen und Programmierung I - 3 LP
Module title (English)	ASQ Module Programming Languages and Programming I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 60 h 30 h

Modul **FMI-SQ0102** ASQ Module Programming Languages and Programming II - 3 CP	
Module code	FMI-SQ0102
Module title (German)	ASQ-Modul Programmiersprachen und Programmierung II - 3 LP
Module title (English)	ASQ Module Programming Languages and Programming II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 60 h 30 h

Modul **FMI-SQ0105** ASQ Module Programming Languages and Programming I - 6 CP	
Module code	FMI-SQ0105
Module title (German)	ASQ-Modul Programmiersprachen und Programmierung I - 6 LP
Module title (English)	ASQ Module Programming Languages and Programming I - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-SQ0106** ASQ Module Programming Languages and Programming II - 6 CP	
Module code	FMI-SQ0106
Module title (German)	ASQ-Modul Programmiersprachen und Programmierung II - 6 LP
Module title (English)	ASQ Module Programming Languages and Programming II - 6 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-SQ0121** ASQ Module Scripting Languages I - 4 CP	
Module code	FMI-SQ0121
Module title (German)	ASQ-Modul Skriptsprachen I - 4 LP
Module title (English)	ASQ Module Scripting Languages I - 4 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-SQ0122** ASQ Module Scripting Languages II - 4 CP	
Module code	FMI-SQ0122
Module title (German)	ASQ-Modul Skriptsprachen II - 4 LP
Module title (English)	ASQ Module Scripting Languages II - 4 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-SQ0125** ASQ Module Introduction to LaTeX for Scientists	
Module code	FMI-SQ0125
Module title (German)	ASQ-Modul LaTeX Grundlagen für Naturwissenschaftler und Informatiker - 4 LP
Module title (English)	ASQ Module Introduction to LaTeX for Scientists
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	4 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	120 h 60 h 60 h

Modul **FMI-SQ0130** Data Analysis with R	
Module code	FMI-SQ0130
Module title (German)	Datenanalyse mit R
Module title (English)	Data Analysis with R
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-SQ0131** ASQ Module Functional Programming	
Module code	FMI-SQ0131
Module title (German)	Funktionale Programmierung
Module title (English)	ASQ Module Functional Programming
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-SQ0201** ASQ Module Business Skills I - 3 CP	
Module code	FMI-SQ0201
Module title (German)	ASQ-Modul Wirtschaftskompetenz I - 3 LP
Module title (English)	ASQ Module Business Skills I - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-SQ0202** ASQ Module Business Skills II - 3 CP	
Module code	FMI-SQ0202
Module title (German)	ASQ-Modul Wirtschaftskompetenz II - 3 LP
Module title (English)	ASQ Module Business Skills II - 3 CP
Frequency of offer (how often is the module offered?)	Every semester
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-SQ0211** ASQ Module Project Management	
Module code	FMI-SQ0211
Module title (German)	ASQ-Modul Projektmanagement
Module title (English)	ASQ Module Project Management
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-SQ0301** ASQ Module Number Feeling and Structure Feeling - 3 CP	
Module code	FMI-SQ0301
Module title (German)	ASQ-Modul Zahlengefühl und Strukturgefühl - 3 LP
Module title (English)	ASQ Module Number Feeling and Structure Feeling - 3 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **FMI-SQ0302** ASQ Module Number Feeling and Structure Feeling - 6 CP	
Module code	FMI-SQ0302
Module title (German)	ASQ-Modul Zahlengefühl und Strukturgefühl - 6 LP
Module title (English)	ASQ Module Number Feeling and Structure Feeling - 6 CP
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-SQ0303** Go - a mathematical strategic board game	
Module code	FMI-SQ0303
Module title (German)	Go - Ein mathematisches Strategiespiel
Module title (English)	Go - a mathematical strategic board game
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	1 semester
ECTS credits	6 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	180 h 60 h 120 h

Modul **FMI-SQ0501** ASQ Module Informatics and Society	
Module code	FMI-SQ0501
Module title (German)	ASQ-Modul Informatik und Gesellschaft
Module title (English)	ASQ Module Informatics and Society
Frequency of offer (how often is the module offered?)	At irregular intervals
Duration of module	1 semester
ECTS credits	3 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	90 h 30 h 60 h

Modul **MED-MDS002** Analysis of Medical Data and Signals	
Module code	MED-MDS002
Module title (German)	Analyse medizinischer Daten und Signale
Module title (English)	Analysis of Medical Data and Signals
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	2 semester
ECTS credits	12 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	360 h 120 h 240 h

Modul **MED-MDS003** Medical Imaging Systems and Image Processing	
Module code	MED-MDS003
Module title (German)	Bildgebende Verfahren und Bildverarbeitung in der Medizin
Module title (English)	Medical Imaging Systems and Image Processing
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	2 semester
ECTS credits	12 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	360 h 120 h 240 h

Modul **MED-MDS004** Applied Medical Statistics	
Module code	MED-MDS004
Module title (German)	Angewandte Statistik in der Medizin
Module title (English)	Applied Medical Statistics
Frequency of offer (how often is the module offered?)	Every second semester (beginning in winter semester)
Duration of module	2 semester
ECTS credits	12 CP
Work load: - In-class studying - Independent studying (incl. preparations for examination)	360 h 120 h 240 h

Abbrevations:

Abbrevations of lectures

IL....	Inaugural lecture
WG....	Working group
AM....	Advanced module
Exh....	Exhibition
BM....	Basic module
BzPS....	Begleitveranstaltung zum Praxissemester
C....	Consulting
To....	Tour
M....	Meeting
Blo....	Blockage
BC....	Block course
DV....	Slide show
IN....	Introductory session
RS....	Registrations
EC....	Exam course
EX....	Excursion
Exp....	Experiment/survey
FE....	Celebration/festivity
MS....	Movie screening
FEx....	Field exercise
BC....	Basic course
MaS....	Main seminar
MS/ BC....	Main seminar/block course
MaS/ Ex....	Main seminar/exercise
Inf....	Information session
IDS/E....	Interdisciplinary main seminar/ exercise
E....	Exam
E/T....	Exam/test
C....	Colloquium
C/I....	Colloquium/practical work
CS....	Conference/symposium
kV....	Kulturelle Veranstaltung
Cu....	Course

Abbrevations of lectures

Co....	Course
Lag....	Lagerung
TRP....	Training research project
RC....	Reading course
M....	Module
ME....	Musical event
AS....	Advanced seminar
OnS....	Online seminar
OnL....	Online lecture
P....	Practical work
I/S....	Practical work/seminar
PM....	Practice module
Sa....	Sample
PJ....	Project
PPD....	Propaedeutic
PS....	Proseminar
EPr....	Exam preparation
CSA....	Cross-sectional area
RE....	Revision course
LS....	Lecture Series
TC....	Training course
S....	Seminar
S/E....	Seminar/Excursion
S/E....	Seminar/Exercise
ST....	Service time
SI....	Conference
SuSch....	Summer school
MISC....	Miscellaneous
OE....	Other event
LC....	Language course
Con....	Convention
TT....	Teleteaching
MN....	Meeting
Tu....	Tutorial
T....	Tutorial
E....	Exercise
E/BC....	Exercise/block course
E....	Exercises
E/I....	Exercise/interdisciplinary
E/I....	Exercise/practical work

Abbrevations of lectures

E/T....	Exercise/tutorial
Conf....	Conference
ViCo....	Video conference
L....	Lecture
L/C....	Lecture with colloquium
L/I....	Lecture/practical work
L/S....	Lecture/seminar
L/E....	Lecture/exercise
Sp....	Speech
TK....	Talk
OS....	Optional seminar
OL....	Optional lecture
Tr....	Training
Wo....	Workshop
WOS....	Workshop
CAC....	Certificate award ceremony

Other Abbrevations

Anm.....	Anmerkung
ASQ....	Allgemeine Schlüsselqualifikationen
AT....	Altes Testament
E....	Essay
FSQ....	Fachspezifische Schlüsselqualifikationen
FSV....	Fakultät für Sozial- und Verhaltenswissenschaften
GK....	Grundkurs
IAW....	Institut für Altertumswissenschaften
LP....	Leistungspunkte
NT....	Neues Testament
SQ....	Schlüsselqualifikationen
SS....	Sommersemester
SWS....	Semesterwochenstunden
TE....	Teilnahme
TP....	Thesenpublikation
ThULB....	Thüringer Universitäts- und Landesbibliothek
VVZ....	Vorlesungsverzeichnis
WS....	Wintersemester