

Student ID Number

Degree Programm Number

<b>UK</b>	<b>066</b>	<b>404</b>	
-----------	------------	------------	--

## EXAMINATION RASTER MASTER'S PROGRAM COMPUTATIONAL MATHEMATICS

(1.10.2023)

### Data of the Student

First name and Family name	
Phone number	
E-Mail	

### Core Subjects

 Three of the following **Core Subjects** with an extent of **12 ECTS each** have to be completed

#### Algebra [5-1]

Course	Code	Type	ECTS	Date	Grade
Algebra	404ALBRALGV23	VL	6		
Algebraic Combinatorics	404ALBRALVC23	VL	3		
Discrete Mathematics	404ALBRDEM23	VL	3		
<b>12</b>					

#### Analysis [5-2]

Course	Code	Type	ECTS	Date	Grade
Complex Analysis	404ANACCANV23	VL	4,5		
Dynamical Systems and Chaos	404ANACDSCV23	VL	3		
Spectral theory and distributions	404ANACSTDV23	VL	4,5		
<b>12</b>					

#### Computer Algebra and Number Theory [5-3]

Course	Code	Type	ECTS	Date	Grade
Advanced Computer Algebra	404CANCACAV23	VL	3		
Number Theory	404CANCNUTV23	VL	4,5		
Symbolic Summation and Integration	404CANCSSIV23	VL	4,5		
<b>12</b>					

#### Geometry [5-4]

Course	Code	Type	ECTS	Date	Grade
Computational Geometry	404GEOCCOGV23	VL	3		
Computer-aided geometric design	404GEOCCGDV23	VL	3		

Differential Geometry	404GEOCDGEV23	VL	3		
Commutative Algebra and Algebraic Geometry	404GEOCCAIV23	VL	3		
12					

### Mathematical Methods in Modeling and Data Analysis [5-5]

Course	Code	Type	ECTS	Date	Grade
Statistical Methods	404MMMCSTMV23	VL	3		
Wavelets - Functional Analytical Basics	404MMMCWFAV23	VL	3		
Integral Equations and Boundary Value Problems	403MAMOIEBV22	VL	6		
12					

### Mathematical Models [5-6]

Course	Code	Type	ECTS	Date	Grade
Computational Modeling in Medicine and Life Science	404MAMCCMMV23	VL	3		
Non-Life Insurance Mathematics	404MAMCNLIV23	VL	3		
Mathematical Methods in Continuum Mechanics	403MAMOMMCV22	VL	6		
12					

### Numerical Methods [5-7]

Course	Code	Type	ECTS	Date	Grade
Inverse Problems	403MAMOINPV22	VL	3		
Numerical Methods for Elliptic Equations	403NUSINMEV22	VL	6		
Numerical Methods in Continuum Mechanics	403NUSINMCV22	VL	3		
12					

### Stochastics [5-8]

Course	Code	Type	ECTS	Date	Grade
Stochastic Differential Equations	404STCCSDEV23	VL	4,5		
Financial Mathematics	403MAMOFIMV22	VL	4,5		
Stochastic Processes	403MAMOSTPV22	VL	3		
12					

### Symbolic Logic [5-9]

Course	Code	Type	ECTS	Date	Grade
Automated Reasoning	404SLOCAURV23	VL	4,5		
Mathematical Logic	404SLOCMALV23	VL	3		
Formal Methods in Software Development	921SOENFMSK13	VL	4,5		
12					

**Electives [10]**

Course	Code	Type	ECTS	Date	Grade
<b>31,5</b>					

**Master's Thesis Seminars [15]**

Course	Code	Type	ECTS	Date	Grade
Master's Thesis Seminar I	403MATSM1S22	SE	8		
Master's Thesis Seminar II	403MATSM2S22	SE	8		
<b>16</b>					

**Free electives [20]**

Course	Code	Type	ECTS	Date	Grade
<b>12</b>					

Linz, \_\_\_\_\_

Student Signature	
-------------------	--

Der\*Die Vizerektor\*in für Lehre und Studierende