

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject MINT Teacher Education PLUS, Elite Network Bavaria (ENB) with the degree "LA Master Gymnasium" (120 ECTS credits)

Responsible: Faculty of Biology

Responsible: Faculty of Chemistry and Pharmacy

Responsible: Faculty of Mathematics and Computer Science

Responsible: Faculty of Physics and Astronomy

Examination regulations version: 2020

Examination regulations version: 2020

Examination regulations version: 2020

Examination regulations version: 2020

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB: Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures: Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

18-Dec-2019 (2019-59)

12-Jun-2024 (2024-78)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

| | | | | | | | |
|--------------|---------------------------------------|--|--|----------------|-------------------|--|--------------|
| Abbreviation | Module title | | | | | | |
| | ECTS | | Duration | (in semesters) | Method of grading | | Module level |
| | Courses | | To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y | | | | |
| | Method of assessment | | | | | | |
| | Only after successful completion of | | if applicable | | | | |
| | Other prerequisites | | if applicable | | | | |
| | Participants and allocation of places | | if applicable | | | | |
| | Additional information | | if applicable | | | | |
| | Referred to in LPO I | | if applicable (examination regulations for teaching-degree programmes) | | | | |

| Module Area A: Focus Subject (6o ECTS credits) | | | | | | | | |
|--|--------------------------------------|--|----------|------------|-------------------|------------------------------|-------------|---------------|
| Focus Subject Biology (6o ECTS credits) | | | | | | | | |
| 07-GY-BFM-152-m01 | Research Methods in Biology | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | S (3) | | | | | | |
| | Method of assessment | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) or g) term paper (approx. 10 to 30 pages) or h) project (approx. 10 to 30 pages) or i) portfolio. Students will be informed about the method and length of the assessment prior to the course. creditable for bonus | | | | | | |
| | Referred to in LPO I | § 61 I Nr. 7 | | | | | | |
| 07-GY-FOP-152-m01 | Research-oriented working in Biology | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | Ü (4) | | | | | | |
| | Method of assessment | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) or g) term paper (approx. 10 to 30 pages) or h) project (approx. 10 to 30 pages) or i) portfolio. Students will be informed about the method and length of the assessment prior to the course. creditable for bonus | | | | | | |
| | Referred to in LPO I | § 61 I Nr. 7 | | | | | | |
| 07-LA-HU-BIO-1-152-m01 | Basic Human Biology I - GY | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (3) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 90 minutes) creditable for bonus | | | | | | |
| | Referred to in LPO I | § 61 I Nr. 5 | | | | | | |

| | | | | | | | | |
|------------------------|--|--|----------|------------|-------------------|------------------------------|-------------|---------------|
| 07-LA-HU-BIO-2-152-m01 | Basic Human Biology II | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | Ü (3) | | | | | | |
| | Method of assessment | Logs (approx. 30 hours) and 10 to 15 drawings creditable for bonus | | | | | | |
| | Modules successfully completed | 07-LA-HUBIO-1 or 07-GMR-HUBIO-1 | | | | | | |
| | Referred to in LPO I | § 41 I Nr. 5 § 61 I Nr. 5 | | | | | | |
| 07-GY-MI-BI-152-m01 | Advanced Microbiology - GY | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | Ü (3) | | | | | | |
| | Method of assessment | written examination (approx. 60 minutes) creditable for bonus | | | | | | |
| | other prerequisites | Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment. | | | | | | |
| | Referred to in LPO I | § 61 I Nr. 3 | | | | | | |
| 07-MS1-152-m01 | Neurobiology, Behavioural Physiology and Animal Ecology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MS1CB-152-m01 | Endogenous Clocks | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|---------------------|---|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MS1NMN-D-152-m01 | Neuromodulation and Neuronal Development | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (1) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | |
| 07-MS1N-F1-152-m01 | Neurobiology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | P (14) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS1N-F2-152-m01 | Neurobiology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (29) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS1TÖ-152-m01 | Animal Ecology and Tropical Biology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|--------------------|---|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS1TÖ2-152-mo1 | Animal Ecology and Tropical Biology 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MS1TÖF1-152-mo1 | Animal Ecology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS1TÖF2-152-mo1 | Animal Ecology and Tropical Biology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS1K-152-mo1 | Animal Communication | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|--------------------|---|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MS1ES-152-mo1 | Experimental Sociobiology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (1) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS1N-B-152-mo1 | Neurogenetics of Behaviour | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (1) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | |
| 07-MS1V-F1-152-mo1 | Behavioural Physiology and Sociobiology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | P (14) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS1V-F2-152-mo1 | Behavioural Physiology and Sociobiology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (29) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|---------------------|--|----|--|------------|-------------------|-----------------|-------------|----------|
| 07-MS2-152-m01 | Molecular Biology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS2ZE1-152-m01 | Cell and Developmental Biology Master 1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (1) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS2ZE2-152-m01 | Cell and Developmental Biology Master 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (1) + S (2) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | |
| 07-MS2ZE-F1-152-m01 | Cell and Developmental Biology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | P (14) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|---------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS2ZE-F2-152-m01 | Cell and Developmental Biology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS2IN-F-152-m01 | Infection Biology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS2PA-152-m01 | Pathogenicity of Microorganisms | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS2M-F1-152-m01 | Microbiology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | Additional Information | The internship must be completed full-time within a period of 5 to 6 weeks. | | | | | | |

| | | | | | | | | |
|---------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS2M-F2-152-m01 | Microbiology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | Additional Information | The internship must be completed full-time within a period of 10 to 12 weeks. | | | | | | |
| 07-MS2B-T-152-m01 | Biophysics and Molecular Biotechnology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MS2BT-F1-152-m01 | Biophysics and Molecular Biotechnology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS2BT-F2-152-m01 | Biophysics and Molecular Biotechnology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|--------------------|-----------------------------------|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MS2BI-152-m01 | Bioinformatics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS2BIF1-152-m01 | Bioinformatics F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | P (14) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS2BIF2-152-m01 | Bioinformatics F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (29) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS31-152-m01 | Current Methods in Biology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|-----------------------|---|--|----------|------------|-------------------|-----------------|-------------|----------|
| 07-MS31POEK-152-m01 | Plant Ecology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS31PIP-152-m01 | Plant Immunobiology and Pharmaceutical Biology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3B-B-152-m01 | Biophysics and Biochemistry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MS31MPP-F1-152-m01 | Molecular Plant Physiology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|-----------------------|---|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS31MPP-F2-152-mo1 | Molecular Plant Physiology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3BSBF1-152-mo1 | Biochemistry and Structural Biology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3BSBF2-152-mo1 | Biochemistry and Structural Biology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3B-PF1-152-mo1 | Biophysics of Plant Membrane Proteins F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|--------------------------|---|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS3B- PF2-152-m01 | Biophysics of Plant Membrane Proteins F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3S- PF1-152-m01 | Plant Signalling F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3S- PF2-152-m01 | Plant Signalling F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3PBM- F1-152-m01 | Pharmaceutical Biology and Metabolomics F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|-----------------------|--|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MS3PBM-F2-152-m01 | Pharmaceutical Biology and Metabolomics F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (29) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS3PPE-F1-152-m01 | Physiological Plant Ecology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | P (14) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS3PPE-F2-152-m01 | Physiological Plant Ecology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (29) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS3MCPE-F1-152-m01 | Molecular and Chemical Plant Ecology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | P (14) + S (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|-----------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS3MCPE-F2-152-m01 | Molecular and Chemical Plant Ecology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3S-152-m01 | Systems Biology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3SYF1-152-m01 | Systems Biology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3SYF2-152-m01 | Systems Biology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|----------------------|--------------------------|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS3COB-F1-152-m01 | Computational Biology F1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (14) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3COB-F2-152-m01 | Computational Biology F2 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (29) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MSL1-152-m01 | Laboratory Course 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (5) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |

| | | | | | | | | |
|-----------------|-----------------------|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MSL2-152-m01 | Laboratory Course 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (15) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Please consult with course advisory service in advance. | | | | | |
| | | | | | | | | |
| 07-MSL3-152-m01 | Laboratory Course 3 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (30) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Please consult with course advisory service in advance. | | | | | |
| | | | | | | | | |
| 07-MSA1-152-m01 | External Internship 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (10) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Please consult with course advisory service in advance. | | | | | |
| | | | | | | | | |

| | | | | | | | | |
|------------------|----------------------------|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MSA2-152-m01 | External Internship 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (15) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 30 to 60 minutes, including multiple choice questions) or b) log (approx. 15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (approx. 20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Please consult with course advisory service in advance. | | | | | |
| 07-MSA3-152-m01 | External Internship 3 | | | | | | | |
| | ECTS | 15 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (30) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Please consult with course advisory service in advance. | | | | | |
| 07-ML-152-m01 | Linux and Perl | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | S (3) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MLS1B-152-m01 | Methods in Life Sciences B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (3) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English | | | | | |

| | | | | | | | | |
|------------------|---|----|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MLS1-152-m01 | Methods in Life Sciences | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English | | | | | |
| 07-MLS2B-152-m01 | Topics and Concepts in Life Sciences B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (3) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: English | | | | | |
| 07-MLS2-152-m01 | Topics and Concepts in Life Sciences | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English | | | | | |
| 07-MS31B-152-m01 | Current Methods in Biology B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (3) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|-----------------------|---|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS31POEK-B-152-m01 | Plant Ecology B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS31PIP-B-152-m01 | Plant Immunobiology and Pharmaceutical Biology B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MS3BB-B-152-m01 | Biophysics and Biochemistry B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MS2BT-B-152-m01 | Biophysics and Molecular Biotechnology B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|---------------------|---|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MS1B-152-m01 | Neurobiology, Behavioural Physiology and Animal Ecology B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (3) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MNBB-152-m01 | Neurogenetics of Behaviour B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (3) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MEN-MNDB-152-m01 | Neuromodulation and Neuronal Development B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (3) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MECB-152-m01 | Endogenous Clocks B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MTÖB-152-mo1 | Animal Ecology and Tropical Biology B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MTÖ2B-152-mo1 | Animal Ecology and Tropical Biology 2 B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | | |
| 07-MKB-152-mo1 | Animal Communication B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| 07-MESB-152-mo1 | Experimental Sociobiology B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) + S (1) Module taught in: English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|---------------------|--|---|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MS2B-152-m01 | Molecular Biology B | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (3) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English | | | | | |
| 07-MS2INF-B-152-m01 | Infection Biology B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MS2PA-B-152-m01 | Pathogenicity of Microorganisms B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (2) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MBI-B-152-m01 | Bioinformatics B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|-----------------------|--|---|--|------------|-------------------|------------------------------|-------------|----------|
| 07-MS-B-152-m01 | Systems Biology B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MKE- WO-152-m01 | Nucleus Workshop | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | Ü (5) + V (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | |
| 07-MTROP-152- m01 | Tropical Ecology | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | Ü (3) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |
| 07-MPWD-152-m01 | Presentation of Scientific Data | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|----------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 07-MGLN-152-mo1 | Quality Assurance, Good Practice, Biosafety and Biosecurity | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (1) + S (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) Language of assessment: German and/or English | | | | | | |
| 07-MV-MINT4-152-mo1 | Special Subject Studies Biology and Natural Sciences 4 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |
| 07-MV-MINT4B-152-mo1 | Special Subject Studies Biology and Natural Sciences 4B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |
| 07-MV-MINT5-152-mo1 | Special Subject Studies Biology and Natural Sciences 5 | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | S (3) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format | | | | | | |
| | Method of assessment | Successful completion as certified by the lecturer Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |

| | | | | | | | | |
|--|--|--|----------|------------|-------------------|------------------------------|-------------|---------------|
| 07-MV4-152-m01 | Special Subject Studies outside Natural Sciences 4 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |
| 07-MV4B-152-m01 | Special Subject Studies outside Natural Sciences 4B | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | S (2) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format | | | | | | |
| | Method of assessment | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |
| 07-DR4-152-m01 | Teaching 4 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | S (3) Module taught in: German and/or English Course type: might also be offered in V, Ü, P, R or E format | | | | | | |
| | Method of assessment | Successful completion as certified by the lecturer Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Please consult with course advisory service in advance. | | | | | | |
| Focus Subject Chemistry (60 ECTS credits) | | | | | | | | |
| 08-SCM3-152-m01 | Bioorganic Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (3) | | | | | | |
| | Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|-------------------|--|---|--|------------|-------------------|-----------------|-------------|---------------|
| o8-FU-NT-152-mo1 | Chemically and bio-inspired Nanotechnology for Material Synthesis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (4) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-AC-ELO-152-mo1 | Elemental Organic Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f) | | | | | |
| o8-AC-FK-152-mo1 | Solid State Chemistry | | | | | | | |
| | ECTS | 3 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 62 I Nr. 1 | | | | | |

| | | | | | | | | |
|------------------------|---|---|----------|------------|-------------------|------------------------------|-------------|---------------|
| o8-ACM3-161-m01 | Solid state chemistry and inorganic materials | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (3) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-Forsch-LAGY-152-m01 | Practical Research Course for Grammar School Teachers | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | P (16) | | | | | | |
| | Method of assessment | Log (approx. 20 pages) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Depending on their choice of topic, students who are writing their Hausarbeit (thesis) pursuant to Section 29 LPO I (examination regulations for teaching-degree programmes) in the vertieft studiertes Fach (subject studied with a focus on the scientific discipline) Chemie (Chemistry) are highly recommended to complete module o8-Forsch-LAGY directly before completing module o8-Ch-HA-GY. | | | | | | |
| | Additional Information | Additional information on module duration: block placement / block taught practical course with a duration of 30 days. | | | | | | |
| | Referred to in LPO I | § 62 I Nr. 4 | | | | | | |
| o8-OCM-AKP1-161-m01 | Advanced Research Project Organic Chemistry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (20) Module taught in: German or English | | | | | | |
| | Method of assessment | Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| o8-PCM6-161-m01 | Physical Chemistry (Advanced Lab) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (4) Module taught in: German or English | | | | | | |
| | Method of assessment | presentation (approx. 20 minutes) Language of assessment: German and/or English | | | | | | |
| | Additional Information | Additional information on module duration: block taught lab course with approx. 20 working days. | | | | | | |

| | | | | | | | | |
|-------------------|--|----|--|------------|-------------------|------------------------------|-------------|----------|
| o8-ACM1-161-mo1 | Advanced Inorganic Chemistry | | | | | | | |
| | ECTS | 10 | Duration | 2 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (3) + S (3) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-ACPM-161-mo1 | Inorganic Chemistry practical course for advanced | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (24) Module taught in: German or English | | | | | |
| | Method of assessment | | report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | |
| | Additional Information | | Additional information on module duration: block taught lab course with approx. 40 working days. | | | | | |
| o8-PH-KAC-152-mo1 | Clinical-analytical Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) | | | | | |
| | Method of assessment | | written examination (approx. 120 minutes) Language of assessment: German and/or English | | | | | |
| o8-PCM1a-161-mo1 | Laser Spectroscopy | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English | | | | | |
| o8-PCM1b-161-mo1 | Advanced Physical Chemistry (Lab) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (4) Module taught in: German or English | | | | | |
| | Method of assessment | | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | |
| | Additional Information | | Additional information on module duration: block taught lab course with approx. 20 working days. | | | | | |

| | | | | | | | | |
|--------------------------|---|---|--|------------|-------------------|------------------------------|-------------|---------------|
| o8-FU-Ma- Wi1-152-mo1 | Material Science 1 (Basic introduction) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (3) + Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-FU-Ma- Wi2-152-mo1 | Material Science 2 (The Material Groups) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (3) + Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-FMM-MP-161- mo1 | Lab Course Material Science | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (8) | | | | | |
| | Method of assessment | | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | |
| o8-OCM-SYNT-161- mo1 | Modern Synthetic Methods | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|----------------------|---|---|---|------------|-------------------|-----------------|-------------|---------------|
| o8-BC-MOLMC-161-mo1 | Molecular Biology for Advanced Students | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-FU-Mo-MaV-152-mo1 | Molecular Materials (Lecture) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (3) + S (1) | | | | | |
| | Method of assessment | | [a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English | | | | | |
| o8-PC-MBS-152-mo1 | Molecular structure and spectroscopy | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 62 I Nr. 1 | | | | | |
| | | | | | | | | |
| o8-PCM3-161-mo1 | Nanoscale Materials | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |

| | | | | | | | | |
|-------------------|--|--|----------|------------|-------------------|-----------------|-------------|---------------|
| o8-OC3-152-mo1 | Organic Chemistry 3 | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f) | | | | | | |
| o8-OC4-152-mo1 | Organic Chemistry 4 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 62 I Nr. 2 | | | | | | |
| o8-OCM-FM-161-mo1 | Organic Functional Materials | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (3) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-PCM5-161-mo1 | Physical Chemistry of Supramolecular Assemblies | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) + Ü (1) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|--------------------|---|---|--|------------|-------------------|------------------------------|-------------|---------------|
| o8-PH-KACP-152-mo1 | Practical course of clinical-analytical Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | | P (5) | | | | | |
| | Method of assessment | | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | |
| o8-FMM-PA-161-mo1 | Project Work | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (10) | | | | | |
| | Method of assessment | | Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | |
| o8-TC-152-mo1 | Quantum Chemistry | | | | | | | |
| | ECTS | 3 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f) | | | | | |
| o8-PCM2-161-mo1 | Statistical Mechanics and Reaction Dynamics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|--------------------|--|--|----------|------------|-------------------|-----------------|-------------|---------------|
| o8-PC-SBL1-152-mo1 | Symmetry, chemical bonding and light - Part 1 | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (3) + Ü (2) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f) | | | | | | |
| o8-PCM4-161-mo1 | Ultrafast spectroscopy and quantum-control | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) + Ü (1) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Prior completion of modules o8-PCM1a and o8-PCM1b recommended. | | | | | | |
| o8-BC-VPMM-161-mo1 | Practical course "Molecular Machines" for advanced students | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (10) | | | | | | |
| | Method of assessment | Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| | Modules successfully completed | o8-BC-MOLP | | | | | | |
| o8-BC-VPPD-161-mo1 | Practical course "Protein Degradation in Eukaryotes" for advanced students | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (10) | | | | | | |
| | Method of assessment | Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| | Modules successfully completed | o8-BC-MOLP | | | | | | |
| | Additional Information | | | | | | | |
| | Additional information on module duration: block taught lab course with approx. 40 working days. | | | | | | | |

| | | | | | | | | |
|--------------------|--|--|----------|------------|-------------------|-----------------|-------------|----------|
| o8-BC-VPRB-161-mo1 | Practical course "RNA Biochemistry" for advanced students | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (10) | | | | | | |
| | Method of assessment | Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| | Modules successfully completed | o8-BC-MOLP | | | | | | |
| | Additional Information | Additional information on module duration: block taught lab course with approx. 40 working days. | | | | | | |
| o8-BC-VPSB-161-mo1 | Practical course "Structural Biology" for advanced students | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (10) | | | | | | |
| | Method of assessment | Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| | Modules successfully completed | o8-BC-MOLP | | | | | | |
| | Additional Information | Additional information on module duration: block taught lab course with approx. 40 working days. | | | | | | |
| o8-TCM1-161-mo1 | Selected Topics in Theoretical Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) + Ü (2) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| | | | | | | | | |
| o8-ACM2-161-mo1 | Bioinorganic Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (3) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English | | | | | | |

| | | | | | | | | |
|-----------------|---|----|--|------------|-------------------|------------------------------|-------------|----------|
| o8-SCM4-161-m01 | Supramolecular Chemistry (Advanced Lab) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (6) Module taught in: German or English | | | | | |
| | Method of assessment | | presentation (approx. 20 minutes) Language of assessment: German and/or English | | | | | |
| | Modules successfully completed | | o8-SCM2 | | | | | |
| | Additional Information | | Additional information on module duration: block taught lab course with approx. 20 working days. | | | | | |
| o8-SCM1-152-m01 | Supramolecular Chemistry (Basics) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (3) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English | | | | | |
| o8-TCM2-161-m01 | Basics and Applications of Quantum Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-MCM1-161-m01 | Practical course medicinal chemistry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | P (10) Module taught in: German or English | | | | | |
| | Method of assessment | | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) as well as report (30 to 50 pages) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|--------------------|--|---|----------|------------|-------------------|-----------------|-------------|---------------|
| o8-OCM-NAT-172-mo1 | Modern Aspects of Natural Product Chemistry and Biological Chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S /Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English | | | | | | |
| | Participants and allocation of places | Master's degree programme Chemie (Chemistry): no limitation. Master's degree programme Biochemie (Biochemistry): 20 places. Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot A waiting list will be maintained and places re-allocated as they become available. | | | | | | |
| o8-BC-MOLP-172-mo1 | Molecular Biology laboratory course | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | P (5) | | | | | | |
| | Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester | | | | | | |
| | Participants and allocation of places | Biochemie (Biochemistry) 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Chemie (Chemistry), Master's and MINT-Lehramt PLUS Master's: 6 places. Selection process: 1. Applications of Master's degree programme Chemie (Chemistry) (120 ECTS credits) will be considered first: Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. 2. In case that there are places left after procedure 1 is finished completely, theses places will be distributed among the students in the Master's degree programme MINT-Lehramt PLUS as follows: Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. | | | | | | |

| | | | | | | | | |
|------------------|--------------------------------------|---|--|------------|-------------------|-----------------|-------------|----------|
| o8-TCM3-161-m01 | Numerical Methods and Programming | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-HKM1-152-m01 | Organo- and Biocatalysis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (3) | | | | | |
| | Method of assessment | | a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English | | | | | |
| o8-MCM2a-161-m01 | Pharmaceutical/Medicinal Chemistry 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |
| o8-MCM2b-161-m01 | Pharmaceutical/Medicinal Chemistry 2 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|-------------------|---|--|----------|------------|-------------------|------------------------------|-------------|---------------|
| o3-FU-PM1-152-mo1 | Polymer Chemistry 1 (Lecture and Practical Course) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (2) + P (2) | | | | | | |
| | Method of assessment | a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus | | | | | | |
| o3-FU-PM2-161-mo1 | Polymers II | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) + Ü (1) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-HKM3AC-161-mo1 | Practical course "Homogeneous catalysis in Inorganic Chemistry" | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (6) Module taught in: German or English | | | | | | |
| | Method of assessment | report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| o8-HKM3OC-161-mo1 | Practical course "Homogeneous catalysis in Organic Chemistry" | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (6) Module taught in: German or English | | | | | | |
| | Method of assessment | report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English | | | | | | |
| o8-SCM2-161-mo1 | Supramolecular Chemistry (Practical Course) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (6) Module taught in: German or English | | | | | | |
| | Method of assessment | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | | |
| | Modules successfully completed | o8-SCM1 | | | | | | |

| | | | | | | | | |
|------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| o8-TCM4-161-mo1 | Quantum Dynamics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) + Ü (2) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-HKM2-161-mo1 | Advanced organometallic chemistry and its application in homogeneous catalysis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (3) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-HKM4-161-mo1 | Advanced transition metal chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (3) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-TCAP1-161-mo1 | Theoretical Chemistry - Project course quantum chemistry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (5) | | | | | | |
| | Method of assessment | presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-TCAP2-161-mo1 | Theoretical Chemistry - Project course quantum dynamics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (5) | | | | | | |
| | Method of assessment | presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | |
| o8-TCAP2-161-mo1 | Additional Information | | | | | | | |
| | Additional information on module duration: block taught lab course with approx. 20 working days. | | | | | | | |

| | | | | | | | | |
|---|---|---|---|------------|-------------------|-----------------|-------------|----------|
| o8-MCM3-172-mo1 | Drug design | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) + Ü (1) Module taught in: German or English | | | | | |
| | Method of assessment | | presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English | | | | | |
| | Participants and allocation of places | | 22 places. 16 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration. 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot. 2 places for students of the Master's degree programme MINT-Lehramt PLUS: Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot ; a waiting list will be maintained and places re-allocated by lot as they become available. | | | | | |
| Focus Subject Computer Science (6o ECTS credits) | | | | | | | | |
| 10-HCI=3DUI-161-mo1 | 3D User Interfaces | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | presentation of project results (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 12o ECTS credits): HCI,GE. | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=HCI-161-mo1 | Introduction into Human-Computer Interaction | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + Ü (1) | | | | | |
| | Method of assessment | | presentation of project results (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 12o ECTS credits): HCI. | | | | | |

| | | | | | | | | |
|--------------------|---|---|--|------------|-------------------|------------------------------|-------------|---------------|
| 10-HCI=RIS-182-m01 | Real-Time Interactive Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI. Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions). | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I-REP-152-m01 | Exam Tutorial for the German Staatsexamen | | | | | | | |
| | ECTS | 4 | Duration | 2 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | | Ü (2) | | | | | |
| | Method of assessment | | One exercise per area covered in the state examination | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 2 f) § 22 II Nr. 3 b) | | | | | |
| 10-I-3D-152-m01 | 3D Point Cloud Processing | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=AA-152-m01 | Advanced Automation | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes) creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|-------------------|---|---|--|------------|-------------------|-----------------|-------------|---------------|
| 10-I=AGIS-161-m01 | Algorithms for Geographic Information Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IS,HCI | | | | | |
| 10-I=AG-161-m01 | Computational Geometry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,HCI,GE | | | | | |
| 10-I-AGT-152-m01 | Algorithmic Graph Theory | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|------------------|--------------------------|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=APA-161-m01 | Approximation Algorithms | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=AUT-161-m01 | Automata Theory | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IT, ES, HCI, GE | | | | | |
| | | | | | | | | |
| 10-I=AVS-161-m01 | Avionics Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES,LR | | | | | |
| | | | | | | | | |

| | | | | | | | | |
|---|------------------------------|---|--|------------|---|-----------------|-------------|---------------|
| 10-I=BER-161-m01 | Computability Theory | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IT,IS,GE | | | | | |
| 07-BI-161-m01 | Bioinformatics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | | | | | | |
| 10-I=CB-161-m01 | Compiler Construction | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,GE | | | | | |
| 10-I-DM-152-m01 | Data Mining | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| | | | | | | | | |
| MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) | | | | | JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 64 i22 - - H 2020 | | | page 46 / 112 |

| | | | | | | | | |
|------------------|------------------------|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=DB2-161-m01 | Databases 2 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, HCI. | | | | | |
| 10-I=DDB-172-m01 | Deductive Databases | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS. | | | | | |
| 10-I=ES-161-m01 | Embedded Systems | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,ES,LR,GE | | | | | |

| | | | | | | | | |
|------------------|--|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=EL-161-m01 | E-Learning | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,HCI,GE | | | | | |
| 10-I=PA-161-m01 | Analysis and Design of Programs | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,ES,GE | | | | | |
| 10-I=APR-161-m01 | Advanced Programming | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IS,LR, HCI, ES,GE | | | | | |

| | | | | | | | | |
|------------------|--------------------------------------|----|--|------------|-------------------|------------------------------|-------------|---------------|
| 10-I-APR-172-m01 | Advanced Programming | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I-HWP-152-m01 | Practical course in hardware | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | | P (6) | | | | | |
| | Method of assessment | | portfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10 minutes per project) | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=IR-161-m01 | Information Retrieval | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,HCI,GE | | | | | |
| 10-I-ICG-152-m01 | Interactive Computer Graphics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|------------------|---------------------------------------|---|--|------------|-------------------|-----------------|-------------|---------------|
| 10-I-KT-191-m01 | Computational Complexity | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=KT2-161-m01 | Computational Complexity II | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, ES | | | | | |
| 10-I-KD-191-m01 | Cryptography and Data Security | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|------------------|--------------------------|----|--|------------|-------------------|-----------------|-------------|---------------|
| 10-I-LOG-152-m01 | Logic for informatics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I-PV-152-m01 | Project Presentation | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | S (5) | | | | | |
| | Method of assessment | | presentation of a project developed by the candidate analogous to a presentation for laypersons with a knowledge of computer science at a trade fair as well as discussion (approx. 10 to 15 minutes total) Language of assessment: German and/or English | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I-RAL-152-m01 | Digital computer systems | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (4) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | |
| | | | | | | | | |
| 10-I-RAK-152-m01 | Computer Architecture | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur | | | | | |

| | | | | | | | | |
|-------------------|--|---|----------|------------|-------------------|-----------------|-------------|---------------|
| 10-I-RIÜ-191-mo1 | Computer Networks and Information Transmission | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (4) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 3 b), § 69 I Nr. 1 c) | | | | | | |
| 10-I=RK-161-mo1 | Computer Networks and Communication Systems | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, ES, LR. | | | | | | |
| 10-I-SEM1-152-mo1 | Seminar - Selected Topics in Computer Science 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | S (2) | | | | | | |
| | Method of assessment | written elaboration (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion on a topic from the field of computer science Language of assessment: German and/or English | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 3 b) | | | | | | |
| 10-I-TIV-152-mo1 | Theoretical Informatics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (4) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). | | | | | | |
| | Referred to in LPO I | § 49 I Nr. 1 a) § 69 I Nr. 1 a) | | | | | | |

| | | | | | | | | |
|--------------------|-------------------------------------|--|----------|------------|-------------------|------------------------------|-------------|---------------|
| 10-I-TIT-191-m01 | Tutorial Theoretical Informatics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | Ü (2) | | | | | | |
| | Method of assessment | a) exercises (consisting in completion of approx. 11 home work exercise sheets, presentation of own solutions in the exercise groups as well as approx. 5 short assessments written in the exercise group) or b) written examination (approx. 180 to 240 minutes) Die Prüfungsart ist vom Prüfling festzulegen | | | | | | |
| 10-I-WBS-152-m01 | Knowledge-based Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 3 b) | | | | | | |
| 10-I=AKA-161-m01 | Selected Topics in Algorithms | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT | | | | | | |
| 10-I=A-KES-161-m01 | Selected Topics in Embedded Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES. | | | | | | |

| | | | | | | | | |
|-------------------------|---|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=AKH- CI-182-m01 | Selected Topics in HCI | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü/S (2) | | | | | |
| | Method of assessment | | written examination (60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI. | | | | | |
| 10-I=AKII-182-m01 | Selected Topics in Computer Science | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü/S (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS. | | | | | |
| 10-I=AKIS-161-m01 | Selected Topics in Intelligent Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS. | | | | | |
| 10-I=AKIT-161-m01 | Selected Topics in Internet Technologies | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT. | | | | | |

| | | | | | | | | |
|---------------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 10-I=A-KITS-172-m01 | Selected Topics in IT Security | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) Module taught in: English | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES. | | | | | |
| 10-I=AKL-R-161-m01 | Selected Topics in Aerospace Engineering | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR. | | | | | |
| 10-I=AKT-161-m01 | Selected Topics in Theory | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT | | | | | |

| | | | | | | | | |
|--------------------|---|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=AK-SE-161-m01 | Selected Topics in Software Engineering | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE. | | | | | |
| 10-I=KI1-161-m01 | Artificial Intelligence 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI | | | | | |
| 10-I=KI2-161-m01 | Artificial Intelligence 2 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,HCI,GE | | | | | |

| | | | | | | | | |
|----------------------|--|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=LVS-161-m01 | Performance Evaluation of Distributed Systems | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE | | | | | |
| 10-I=LP-172-m01 | Logic Programming | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS. | | | | | |
| 10-I=NLP-182-m01 | Machine Learning for Natural Language Processing | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IS, HCI. | | | | | |
| 10-HCI=M-LUI-161-m01 | Machine Learning (for User Interfaces) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI,GE. | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|----------------------|-----------------------------------|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=ML-161-m01 | Mathematical Logic | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,IS,ES | | | | | |
| 10-I=MI-161-m01 | Medical Informatics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,IS,HCI,GE | | | | | |
| 10-HCI=M-MUI-161-m01 | Multimodal User Interfaces | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI,GE. | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|-------------------|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| 10-I=PEB-161-m01 | Performance Engineering & Benchmarking of Computer Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES,HCI,GE | | | | | | |
| 10-I=PRAK-161-m01 | Practical course - Current Topics in Computer Science | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | P (6) | | | | | | |
| | Method of assessment | term paper (5 to 15 pages) Language of assessment: German and/or English | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE | | | | | | |
| 10-I=PM-182-m01 | Professional Project Management | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | other prerequisites | We recommend completing module 10-I=PRJAK in parallel. | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, IS, ES, LR, HCI, GE. | | | | | | |
| 10-I=PNN-182-m01 | Programming with neural nets | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IT, IS, HCI, GE | | | | | | |

| | | | | | | | | |
|--------------------|--|--|----------|------------|-------------------|-----------------|-------------|----------|
| 10-I=PRJAK-162-m01 | Project - Current Topics in Computer Science | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | P (4) | | | | | | |
| | Method of assessment | project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Each project is offered one time only. The project will not be repeated; there will not be another project with the same topic. Assessment can, therefore, only be offered for the project offered in the respective semester. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE. | | | | | | |
| 10-I=RAM-161-m01 | Computer Arithmetic | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,ES | | | | | | |
| 10-I=RO1-182-m01 | Robotics 1 | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: English | | | | | | |
| | Method of assessment | written examination (approx. 60 to 90 minutes) Separate written examination for Master's students. Language of assessment: English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS, ES, LR, HCI, GE. | | | | | | |
| 10-I=RO2-152-m01 | Robotics 2 | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 90 minutes) creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, ES, LR | | | | | | |
| | Referred to in LPO I | § 22 II Nr. 3 b) | | | | | | |

| | | | | | | | | |
|-------------------|--|--|----------|------------|-------------------|-----------------|-------------|----------|
| 10-I=SEM3-161-m01 | Seminar 1 - Current Topics in Computer Science | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) | | | | | | |
| | Method of assessment | term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of computer science Language of assessment: German and/or English | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE. | | | | | | |
| 10-I=SEM4-161-m01 | Seminar 2 - Current Topics in Computer Science | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | S (2) | | | | | | |
| | Method of assessment | term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE | | | | | | |
| 10-I=SSS-172-m01 | Security of Software Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (2) + Ü (2) Module taught in: English | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES. Basic programming knowledge in C is required. | | | | | | |
| 10-I=ST-161-m01 | Discrete Event Simulation | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) | | | | | | |
| | Method of assessment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Additional Information | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,GE | | | | | | |

| | | | | | | | | |
|------------------|--------------------------|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-I=SAR-161-m01 | Software Architecture | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=SSD-152-m01 | Spacecraft System Design | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes) creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES, LR | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| 10-I=STM-162-m01 | NLP and Text Mining | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IT, HCI. | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |

| | | | | | | | | |
|--|-------------------------|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-I=VG-161-m01 | Visualization of Graphs | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) | | | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | |
| | Additional Information | | Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,HCI,GE | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 b) | | | | | |
| Focus Subject Computer Mathematics (60 ECTS credits) | | | | | | | | |
| 10-M=VAT-P-161-m01 | Algebraic Topology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=AAAN-161-m01 | Applied Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

| | | | | | | | | |
|------------------------|--|---|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=AAL- G-161-mo1 | Topics in Algebra | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V- GEO-161-mo1 | Aspects of Geometry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VA- NA-161-mo1 | Selected Topics in Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VFN- M-161-mo1 | Selected Topics in Financial Mathematics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|--------------------|---------------------------------|---|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=VOP-T-161-m01 | Selected Topics in Optimization | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=ADG-M-161-m01 | Differential Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V-DIM-161-m01 | Discrete Mathematics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VD-SY-161-m01 | Dynamical Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|--------------------|---|----|--|------------|-------------------|-----------------|-------------|---------------|
| 10-M=AFT-H-161-m01 | Complex Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V-GEM-161-m01 | Geometrical Mechanics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=AGMS-161-m01 | Geometric Structures | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M-HAG-Ü-162-m01 | Overview Algebra and Geometry (Differential Geometry or Projective Geometry) for Teaching Degree (German Gymnasium) | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (4) + Ü (2) | | | | | |
| | Method of assessment | | oral examination of one candidate each (20 to 40 minutes) Language of assessment: German and/or English | | | | | |

| | | | | | | | | |
|--------------------|--|--|----------|------------|-------------------|-----------------|-------------|---------------|
| 10-M-HHA-Ü-162-m01 | Overview Higher Analysis for Teaching Degree (German Gymnasium) (Differential Equations and Complex Analysis, or Advanced Analysis and Complex Analysis) | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (4) + Ü (2) | | | | | | |
| | Method of assessment | oral examination of one candidate each (20 to 40 minutes) Language of assessment: German and/or English | | | | | | |
| 10-M-HSA-Ü-162-m01 | Overview Stochastics and Applied Mathematics (Numerical Mathematics 1 or Discrete Mathematics) for Teaching Degree (German Gymnasium) | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (4) + Ü (2) | | | | | | |
| | Method of assessment | oral examination of one candidate each (20 to 40 minutes) Language of assessment: German and/or English | | | | | | |
| 10-M=AGP-C-161-m01 | Giovanni Prodi Lecture (Master) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AOP-T-161-m01 | Basics in Optimization | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|--------------------|---|--|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=VGDS-161-mo1 | Groups and their Representations | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AIST-161-mo1 | Industrial Statistics 1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VIST-161-mo1 | Industrial Statistics 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V-KAR-161-mo1 | Field Arithmetics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|--------------------|--|----|--|------------|-------------------|-----------------|-------------|----------|
| 10-M=ALTH-161-mo1 | Lie Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=ANG-G-161-mo1 | Numeric of Large Systems of Equations | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=VN-PE-161-mo1 | Numeric of Partial Differential Equations | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=ARTH-161-mo1 | Control Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

| | | | | | | | | |
|------------------------|---|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-M=V- STA-161-m01 | Statistical Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=ASM- R-161-m01 | Stochastic Models of Risk Management | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=AST- P-161-m01 | Stochastic Processes | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=A- TOP-161-m01 | Topology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

| | | | | | | | | |
|--------------------|-------------------------|--|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=AVS-M-161-m01 | Insurance Mathematics 1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VVS-M-161-m01 | Insurance Mathematics 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AZTH-161-m01 | Number Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AZ-RA-161-m01 | Time Series Analysis 1 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|------------------------|---|---|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=VZ- RA-161-m01 | Time Series Analysis 2 | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=MP2-161- m01 | Algebra and Dynamics of Quantum Systems | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English creditable for bonus | | | | | | |
| 10-M=MP1-161- m01 | Analysis and Geometry of Classical Systems | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English creditable for bonus | | | | | | |
| 10-M=VAD- G-161-m01 | Applied Differential Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|--------------------|---|----|--|------------|-------------------|-----------------|-------------|----------|
| 10-M=GAL-G-161-m01 | Research in Groups - Algebra | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GDF-Q-161-m01 | Research in Groups - Deformation Quantization | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GD-GE-161-m01 | Research in Groups - Differential Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=G-DIM-161-m01 | Research in Groups - Discrete Mathematics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GD-SC-161-m01 | Research in Groups - Dynamical Systems and Control Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|------------------------|--|----|--|------------|-------------------|-----------------|-------------|----------|
| 10-M=G- COA-161-m01 | Research in Groups - Complex Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GGM- T-161-m01 | Research in Groups - Geometry and Topology | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GC- QS-161-m01 | Research in Groups - Control Theory of Quantum Mechanical Systems | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=G- MAI-161-m01 | Research in Groups - Measure and Integral | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GM- CX-161-m01 | Research in Groups - Mathematics in Context | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|--------------------|---|----|--|------------|-------------------|-----------------|-------------|----------|
| 10-M=GM-SC-161-m01 | Research in Groups - Mathematics in the Sciences | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GN-MA-161-m01 | Research in Groups - Numerical Mathematics and Applied Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GROC-161-m01 | Research in Groups - Robotics, Optimization and Control Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=G-STA-161-m01 | Research in Groups - Statistics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GNTH-161-m01 | Research in Groups - Number Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|--------------------|---|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-M=GT-SA-161-m01 | Research in Groups - Time Series Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=VMPH-161-m01 | Selected Topics in Mathematical Physics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V-TRT-161-m01 | Selected Topics in Control Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=AF-AN-161-m01 | Functional Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

| | | | | | | | | |
|--------------------|---|---|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=VG-PA-161-m01 | Giovanni Prodi Lecture Advanced Topics (Master) | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VGPM-161-m01 | Giovanni Prodi Lecture Modern Topics (Master) | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VG-PS-161-m01 | Giovanni Prodi Lecture Selected Topics (Master) | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VI-PR-161-m01 | Inverse Problems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|------------------------|---|--|----------|------------|-------------------|-----------------|-------------|----------|
| 10-M=VK- GE-161-m01 | Complex Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VMB- V-161-m01 | Mathematical Imaging | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V- KOM-161-m01 | Mathematical Continuum Mechanics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VMT- H-161-m01 | Module Theory | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Method of assessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

| | | | | | | | | |
|------------------------|---|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-M=V- NAN-161-mo1 | Non-linear Analysis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + Ü (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=VOST-161- mo1 | Optimal Control | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + Ü (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=VPD- P-161-mo1 | Partial Differential Equations of Mathematical Physics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V- PRG-161-mo1 | Pseudo Riemannian and Riemannian Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

| | | | | | | | | |
|------------------------|--|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-M=VV- SY-161-m01 | Networked Systems | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + Ü (1) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=GN- LA-161-m01 | Research in Groups - Non-linear Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=GO- PA-161-m01 | Research in Groups - Operator Algebras | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SGP- C-161-m01 | Giovanni Prodi Seminar (Master) | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SID- C-161-m01 | Interdisciplinary Seminar | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|--------------------|---|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-M=SAL-G-161-m01 | Seminar in Algebra | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SAD-G-161-m01 | Seminar in Applied Differential Geometry | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SD-SC-161-m01 | Seminar in Dynamical Systems and Control | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=S-FIM-161-m01 | Seminar in Financial and Insurance Mathematics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=S-COA-161-m01 | Seminar in Complex Analysis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|------------------------|--|---|--|------------|-------------------|-----------------|-------------|----------|
| 10-M=S- GTO-161-mo1 | Seminar in Geometry and Topology | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SM- SC-161-mo1 | Seminar Mathematics in the Sciences | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SN- LA-161-mo1 | Seminar in Non-linear Analysis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SN- MA-161-mo1 | Seminar in Numerical Mathematics and Applied Analysis | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=SOP- T-161-mo1 | Seminar in Optimization | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|------------------------|---|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-M=S- STA-161-m01 | Seminar in Statistics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=VA- GE-192-m01 | Algebraic Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=VAZ- T-192-m01 | Algorithmic Number Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=GAD- G-192-m01 | Research in Groups - Applied Differential Geometry | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|--------------------|---|----|---|------------|-------------------|-----------------|-------------|----------|
| 10-M=GLIE-192-m01 | Research in Groups - Lie Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=G-MAP-192-m01 | Research in Groups - Mathematical Physics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=V-NAM-192-m01 | Selected Topics in Numerical and Applied Mathematics | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V-CAL-192-m01 | Computer Algebra | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

| | | | | | | | | |
|---|---|----|---|------------|---|-----------------|---------------|----------|
| 10-M=VGFT-192-m01 | Geometric Complex Analysis | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V-KRY-192-m01 | Cryptography/Coding Theory | | | | | | | |
| | ECTS | 10 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=SA-MA-192-m01 | Seminar Applied Mathematics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | S (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | |
| Focus Subject Computer Physics (60 ECTS credits) | | | | | | | | |
| 11-EXE5-161-m01 | Current Topics in Experimental Physics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + R (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) | | | | | JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 64 i22 - - H 2020 | | page 85 / 112 | |

| | | | | | | | | |
|-----------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-EXE6-161-m01 | Current Topics in Experimental Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXE7-161-m01 | Current Topics in Experimental Physics | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXE8-161-m01 | Current Topics in Experimental Physics | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |

| | | | | | | | | |
|------------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-EXE6A-161-mo1 | Current Topics in Experimental Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXP6-161-mo1 | Current Topics in Physik | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXP6A-161-mo1 | Current Topics in Physik | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |

| | | | | | | | | |
|-----------------|---------------------------------------|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-EXT5-161-m01 | Current Topics of Theoretical Physics | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + R (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXT6-161-m01 | Current Topics of Theoretical Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXT7-161-m01 | Current Topics of Theoretical Physics | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |

| | | | | | | | | |
|------------------|---------------------------------------|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-EXT8-161-m01 | Current Topics of Theoretical Physics | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-EXT6A-161-m01 | Current Topics of Theoretical Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-ASM-161-m01 | Methods of Observational Astronomy | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| | other prerequisites | | | | | | | |

| | | | | | | | | |
|-----------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-ATTP-161-m01 | Selected Topics of Theoretical Elementary Particle Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-BSV-161-m01 | Image and Signal Processing in Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-BMT-161-m01 | Biophysical Measurement Technology in Medical Science | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|----------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-BWW-161-m01 | Bosonisation and Interactions in One Dimension | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-CMS-161-m01 | Computational Materials Science (DFT) | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-ASP-161-m01 | Introduction to Space Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|--|----|--|------------|-------------------|-----------------|-------------|----------|
| 11-FKS-161-mo1 | Solid State Spectroscopy | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-FPA-161-mo1 | Visiting Research | | | | | | | |
| | ECTS | 10 | Duration | | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | R (0) | | | | | |
| | Method of assessment | | project report (10 to 20 pages) Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-CSAM-161-mo1 | Advanced Topics in Astrophysics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |

| | | | | | | | | |
|------------------|--|---|----------|------------|-------------------|-----------------|-------------|---------------|
| 11-CSFM-161-m01 | Advanced Topics in Solid State Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + R (1) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Approval from examination committee required. | | | | | | |
| 11-L-GKP-152-m01 | General Concepts of Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (2) + Ü (1) + S (2) Module taught in: Ü: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English | | | | | | |
| | Referred to in LPO I | § 77 I Nr. 1 b) | | | | | | |
| 11-APL-161-m01 | High Energy Astrophysics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + R (1) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |

| | | | | | | | | |
|-----------------|--|---|---|------------|-------------------|-----------------|-------------|---------------|
| 11-AKM-161-mo1 | Cosmology | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-BSM-161-mo1 | Models Beyond the Standard Model of Elementary Particle Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-L-M3-152-mo1 | Modern Physics 3 (Nuclear, Particle and Astrophysics) | | | | | | | |
| | ECTS | 6 | Duration | 2 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (3) + Ü (1) Module taught in: Ü: German or English | | | | | |
| | Method of assessment | | written examination (approx. 90 to 120 minutes) Language of assessment: German and/or English | | | | | |
| | Referred to in LPO I | | § 77 I Nr. 1 b) | | | | | |

| | | | | | | | | |
|-----------------|--|--|----------|------------|-------------------|-----------------|-------------|---------------|
| 11-CRP-161-m01 | Renormalization Group and Critical Phenomena | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (3) + R (1) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 11-L-T1-161-m01 | Theoretical Physics 1 for Pre Service Teachers | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | V (4) + Ü (2) Module taught in: Ü: German or English | | | | | | |
| | Method of assessment | written examination (approx. 120 minutes) Language of assessment: German and/or English | | | | | | |
| | other prerequisites | Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester. | | | | | | |
| | Additional Information | Registration: If a student registers for the exercises or the seminar and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered. | | | | | | |

| | | | | | | | | |
|-----------------|---|---|--|------------|-------------------|-----------------|-------------|---------------|
| 11-L-T2-161-m01 | Theoretical Physics 2 for Pre Service Teachers - Exercises | | | | | | | |
| | ECTS | 7 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (4) + Ü (2) Module taught in: Ü: German or English | | | | | |
| | Method of assessment | | oral examination of one candidate each (approx. 30 minutes) Assessment will have reference to the contents of modules 11-L-T1 and 11-L-T2. Language of assessment: German and/or English | | | | | |
| | other prerequisites | | Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester. | | | | | |
| | Additional Information | | Registration: If a student registers for the exercises or the seminar and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered. | | | | | |
| 11-NMA-161-m01 | Computational Astrophysics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|----------------|---------------------------------------|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-GGD-161-mo1 | Introduction to Gauge/Gravity Duality | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-TPE-161-mo1 | Experimental Particle Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-KFT-161-mo1 | Conformal Field Theory | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|----------------------------|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-KFT2-161-mo1 | Conformal Field Theory 2 | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-MAG-161-mo1 | Magnetism | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-MAS-161-mo1 | Multi-wavelength Astronomy | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|----------------|---|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-NOP-161-mo1 | Nano-Optics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-HNS-161-mo1 | Optical Properties of Semiconductor Nanostructures | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-OHL-161-mo1 | Organic Semiconductors | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|-------------------------------|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-PKS-161-mo1 | Physics of Complex Systems | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-PMM-161-mo1 | Physics of Advanced Materials | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-QFT2-161-mo1 | Quantum Field Theory II | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|---|---|---|------------|-------------------|-----------------|-------------|---------------|
| 11-QM2-161-m01 | Quantum Mechanics II | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-RTT-161-m01 | Theory of Relativity | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-RMFT-161-m01 | Renormalization Group Methods in Field Theory | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|----------------|---|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-SPI-161-m01 | Spintronics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-TEP-161-m01 | Theoretical Elementary Particle Physics | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-TFK-161-m01 | Theoretical Solid State Physics | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-TFK2-161-mo1 | Theoretical Solid State Physics 2 | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-MRI-171-mo1 | Advanced Magnetic Resonance Imaging | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-EPP-161-mo1 | Introduction to Plasma Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|------------------|----------------------|---|--|------------|-------------------|-----------------|-------------|----------|
| 11-SSC-172-m01 | Surface Science | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-STRG1-171-m01 | String Theory 1 | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-STRG2-171-m01 | String Theory 2 | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-SLQ-232-m01 | Black Holes | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-AST-161-m01 | Theoretical Astrophysics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-AKTF-201-m01 | Selected Topics of Theoretical Solid State Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|----------------|-------------------------------------|---|----------|------------|-------------------|-----------------|-------------|----------|
| 11-FFK-201-m01 | Field Theory in Solid State Physics | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + R (2) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 11-FK2-201-m01 | Solid State Physics 2 | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | V (4) + R (2) Module taught in: German or English | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| | other prerequisites | Approval from examination committee required. | | | | | | |

| | | | | | | | | |
|-----------------|--|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-QIC-201-m01 | Advanced Theory of Quantum Computing and Quantum Information | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-GRTM-201-m01 | Group Theory | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |

| | | | | | | | | |
|----------------|---|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-HPH-201-m01 | Semiconductor Physics | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 11-PTS-201-m01 | Phenomenology and Theory of Superconductivity | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |

| | | | | | | | | |
|-----------------|------------------------|---|---|------------|-------------------|-----------------|-------------|----------|
| 11-QFT1-201-m01 | Quantum Field Theory I | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (2) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-QTR-201-m01 | Quantum Transport | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| | | | | | | | | |

| | | | | | | | | |
|---|--|---|---|------------|---|-----------------|----------------|----------|
| 11-TPSM-201-m01 | Particle Physics (Standard Model) | | | | | | | |
| | ECTS | 6 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (3) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| | other prerequisites | | Approval from examination committee required. | | | | | |
| 11-TEFK-201-m01 | Topological Effects in Solid State Physics | | | | | | | |
| | ECTS | 8 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (4) + R (1) Module taught in: German or English | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| | | | | | | | | |
| Module Area B: Focus Subject-based Didactics (10 ECTS credits) | | | | | | | | |
| MINT-B1-162-m01 | Advanced Subject Didactics 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus | | | | | |
| | | | | | | | | |
| MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) | | | | | JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 64 i22 - - H 2020 | | page 110 / 112 | |

| | | | | | | | | |
|--|------------------------------|---|--|------------|-------------------|------------------------------|-------------|----------|
| MINT-B2-162-mo1 | Advanced Subject Didactics 2 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | | V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus | | | | | |
| Module Area C: International, interdisciplinary research (10 ECTS credits) | | | | | | | | |
| MINT-C1-162-mo1 | Research in Groups | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus | | | | | |
| MINT-C2-162-mo1 | Scientific Internship | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | | V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1) | | | | | |
| | Method of assessment | | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus | | | | | |

| Module Area D: Subject specific key skills (10 ECTS credits) | | | | | | | | |
|--|--|--|----------|------------|-------------------|------------------------------|-------------|----------|
| MINT-D1-162-mo1 | Key Competences for Teaching Professions 1 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus | | | | | | |
| MINT-D2-162-mo1 | Key Competences for Teaching Professions 2 | | | | | | | |
| | ECTS | 5 | Duration | 1 semester | Method of grading | (not) successfully completed | Modul level | graduate |
| | Courses | V (2) + Ü (1) Module taught in: German and/or English Course type: alternatively S (2) or P (2) instead of Ü (1) | | | | | | |
| | Method of assessment | a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (20 to 40 minutes) or c) talk (30 to 60 minutes) or d) practical assignment including report (approx. 10 to 20 pages) and talk (approx. 15 minutes) or e) term paper (approx. 15 to 25 pages, usually chosen) Language of assessment: German and/or English creditable for bonus | | | | | | |
| Module Area E: Master Thesis (30 ECTS credits) | | | | | | | | |
| MINT-MA-162-mo1 | Master-Thesis | | | | | | | |
| | ECTS | 30 | Duration | 1 semester | Method of grading | numerical grade | Modul level | graduate |
| | Courses | No courses assigned to module | | | | | | |
| | Method of assessment | Master's thesis (approx. 60 pages) Language of assessment: German and/or English | | | | | | |
| | Additional Information | Time to complete: 6 months. | | | | | | |