



## **Annex SFB**

# Studienfachbeschreibung (subject description, SFB) for the subject Computational Mathematics as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

## Responsible: Institute of Mathematics

Examination regulations version: 2012

| Course types: <b>E</b> = field trip, <b>K</b> = colloquium, <b>O</b> = conversatorium, <b>P</b> = placement/lab course, <b>R</b> = project, <b>S</b> = seminar, <b>T</b> = tutorial, <b>Ü</b> = exercise, <b>V</b> = lecture  |
|---|
| Term: <b>SS</b> = summer semester, <b>WS</b> = winter semester  |
| Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully completed  |
| Regulations: <b>(L)ASPO</b> = general academic and examination regulations (for teaching-degree programmes), <b>FSB</b> = subject-specific provisions, <b>SFB</b> = list of modules   |
| Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>VL</b> = prerequisite(s)   |
| Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-<br>ditable for bonus.  |
| Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-<br>thod 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:

#### ASP02009

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

#### 24-Oct-2012 (2012-168)

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                         | Dura      | ation        | (in semesters)  | Method of grading       |                      | Module level |  |  |  |  |
|              | Courses                      |           | To be sp     | o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y |                         |                      |              |  |  |  |  |
|              | Method of as                 | ssessment |              |   |                         |                      |              |  |  |  |  |
|              | Only after su completion of  |           | if applica   | ble   |                         |                      |              |  |  |  |  |
|              | Other prereq                 | uisites   | if applica   | if applicable   |                         |                      |              |  |  |  |  |
|              | Participants<br>on of places |           | - if applica | ble   |                         |                      |              |  |  |  |  |
|              | Additional in                | formation | if applica   | ıble  |                         |                      |              |  |  |  |  |
|              | Referred to in               | n LPO I   | if applica   | ble (examination r  | egulations for teaching | g-degree programmes) |              |  |  |  |  |

| 10-M-ANA-122-          | Analysis                           | lysis  |  |   |  |  |  |  |  |  |
|------------------------|------------------------------------|--|--|---|--|--|--|--|--|--|
| m01                    | ECTS 20 Duration                   | on 2 semester  | Method of grading numerical grade  | Modul level   | undergraduate  |  |  |  |  |  |
|                        | Courses                            | • 10-M-ANA-1-122<br>• 10-M-ANA-2-122   | s 3 module components. Information on courses<br>:: V + Ü (no information on SWS (weekly contact h<br>2: V + Ü (no information on SWS (weekly contact l<br>2: M (no information on SWS (weekly contact hou   | iours) and course lai<br>nours) and course la   | nguage available)<br>nguage available)   |  |  |  |  |  |
|                        | Method of assessment               |  | odule comprises the assessments in the individu<br>cessful completion of the module will require suc   |   |  |  |  |  |  |  |
|                        |                                    | <ul> <li>8 ECTS, Method</li> <li>written examination by an oral examination approx. 30 minitias subject of the (Prüfungsteilmod)</li> <li>Language of assess tudents about a declaration of assessment over dents who meet assessment at a subject of the (Prüfungsteilmod)</li> <li>8 ECTS, Method</li> <li>written examination of assessment in module</li> <li>8 ECTS, Method</li> <li>written examination of assessment and approx. 30 minitian as subject of the (Prüfungsteilmod)</li> <li>Language of assessment and approx. 30 minitian as subject of the (Prüfungsteilmod)</li> <li>Language of assessment over dents who meet assessment at a declaration of assessment over dents who meet assessment at a declaration of assessment at a subject of the module of the subject of the subject of the (Prüfungsteilmod)</li> <li>Assessment in module</li> </ul> | <b>a component 10-M-ANA-1-122:</b> Analysis 1 Analysis<br>of grading: (not) successfully completed<br>ation (approx. 90 to 180 minutes); if announced by<br>ination of one candidate each (approx. 20 minu-<br>utes). Module will also be considered successful<br>e oral examination covering several modules (se<br>odul)) and this examination was passed.<br>Sessment: German, English if agreed upon with the<br>ites: Certain prerequisites must be met to qualify<br>the respective details at the beginning of the co-<br>f will to seek admission to assessment. If studer<br>er the course of the semester, the lecturer will p<br>t all prerequisites will be admitted to assessme<br>a later date, students will have to obtain the qual<br><b>component 10-M-ANA-2-122:</b> Analysis 2 Analysis<br>of grading: (not) successfully completed<br>ation (approx. 90 to 180 minutes); if announced by<br>innation of one candidate each (approx. 20 minu-<br>utes). Module will also be considered successfull<br>e oral examination covering several modules (se<br>odul)) and this examination was passed.<br>sessment: German, English if agreed upon with the<br>ites: Certain prerequisites must be met to qualify<br>the respective details at the beginning of the co-<br>f will to seek admission to assessment. If student<br>e the course of the semester, the lecturer will p<br>t all prerequisites will be admitted to assessme<br>a later date, students will have to obtain the qual<br><b>e component 10-M-ANA-P-122:</b> Examination in Ar<br>of grading: numerical grade<br>on of one candidate each (approx. 30 minutes);<br>ANA-1 and 10-M-ANA-2<br>sessment: German, English if agreed upon with the to<br>a sessment: German, English if agreed upon with the to<br>a sessment to a successfulle at the polynomic to a successfulle<br>a sessment to a successfulle at the polynomic to a successfulle<br>a sessment to a successfulle at the polynomic to a successfulle<br>a sessment to a successfulle at the polynomic to a successfulle<br>a successfulle at the poly | the lecturer, the writ<br>utes) or an oral exam<br>ly completed if the m<br>parate module comp<br>ne examiner<br>for admission to ass<br>purse. Registration for<br>the have obtained th<br>ut their registration<br>nt in the current or i<br>ification for admissi<br>is 2<br>the lecturer, the writ<br>utes) or an oral exam<br>ly completed if the m<br>parate module comp<br>ne examiner<br>for admission to ass<br>purse. Registration for<br>the have obtained th<br>ut their registration<br>nt in the current or i<br>ification for admissi<br>allysis<br>assessment will ha | nination in groups (groups of 2,<br>nodule component was selected<br>bonent for assessment purposes<br>essment. The lecturer will inform<br>or the course will be considered<br>be qualification for admission to<br>for assessment into effect. Stu-<br>n the subsequent semester. For<br>on to assessment anew.<br>ten examination can be replaced<br>nination in groups (groups of 2,<br>nodule component was selected<br>bonent for assessment purposes<br>essment. The lecturer will inform<br>or the course will be considered<br>the qualification for admission to<br>for assessment into effect. Stu-<br>n the subsequent semester. For<br>on to assessment anew. |  |  |  |  |  |
| Pacholor's with a main | or Computational Mathematics (2012 | Only after succone of the other  | essful completion of module components: Succ<br>r two module components is a prerequisite for pa<br>JMU Würzburg • generated 2   | essful completion of<br>rticipation in modul  | e component 10-M-ANA-P.  |  |  |  |  |  |
| Indice                 | other prerequisites                | by way or exception, a   | autional prerequisites are instea in the section of  | n assessments.  |  |  |  |  |  |  |

| ECTS         20         Duration         2 semester         Method of grading   numerical grade         Module event induces a module components. Information on courses will be listed separately for each module component           Courses         In on-UNA-1:2: V - 10 (in information on SWS (weekly contact hours) and course language available)         In o-UNA-1:2: V - 10 (in information on SWS (weekly contact hours) and course language available)           Method of assessment in this module component is on-WIS (weekly contact hours) and course language available)         In o-WINA-1:2: V - 10 (in information on SWS (weekly contact hours) and course language available)           BetCIS, Method of grading: (no information on SWS (weekly contact hours) and course language available)         In o-WINA-1:2: V - 10 (in information on SWS (weekly contact hours) and course language available)           BetCIS, Method of grading: (no information on SWS (weekly contact hours) and course language available)         In o-WINA-1:2: V - 10 (in information on SWS (weekly contact hours) and course language available)           BetCIS, Method of grading: (no on joursessfully completed)         Is ECTS, Method of grading: (no is successfully completed)           BetCIS, Method of grading: (no information covering several modules (separate module component torse selected a subject of he oral examination are parked.         Is language fassessment is the information on the sessingent in the current or in the subsequent sensester. For assessment is a later date, students will have the current or in the subsequent sensester. For assessment is a later date, students will have a parked auplify oradamission to assessment anexv.   | o-M-LNA-122-m01        |       | <u> </u>   | -        |                 | r   |   |   |   | n   |
|--|------------------------|-------|--|----------|-----------------|---|---|---|---|---|
| <ul> <li>10:M-LNA-1:22: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10:M-LNA-2:22: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10:M-LNA-2:22: M (no information on SWS (weekly contact hours) and course language available)</li> <li>Method of assessment in this module compotent to-M-LNA-1:22: Linear Algebra 1 Linear Algebra 1</li> <li>&amp; SECTS, Method of grading: (nol) successfull completion of the module will require successful completion of all individual assessments.</li> <li>Assessment in module component 10:M-LNA-1:22: Linear Algebra 1 Linear Algebra 1</li> <li>&amp; SECTS, Method of grading: (nol) successfull y completed in the module component was selected by an oral examination of one candidate each (approx, x) on inutes) on an oral examination in groups (groups of z, approx, 30 minutes). Modules (separate module component for assessment purposes (Prifungstellmodul)) and this examination was passed.</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other preequisites: Certain suck be metto qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for assessment anew.</li> <li>Assessment at a later date, students will have to obtained the qualification for admission to assessment anew.</li> <li>Assessment in adule component vas passed.</li> <li>&amp; &amp; &amp; ECTS, Method of grading; (nol) successfully completed</li> <li>written examination (approx, 30 to 80 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination or one candidate each (approx, 20 minutes). Modules (separate module component was selected as subject of the oral eak edmission to assessment. If students have obtained the qualification for admission to assessment anew.</li> <li>Assessment in module component on a subject in the course reg</li></ul> |                        | ECTS  | 20   | Duration | · · · · · ·     | 2 semester  |   |   | Modul level   | undergraduate   |
| <ul> <li>stated otherwise, successful completion of the module will require successful completion of all individual assessments.</li> <li>Assessment in module component 10-M-UAA-1222: Linear Algebra 1</li> <li>8 ECTS, Method of grading: (not) successfully completed</li> <li>written examination of one candidate each (approx. 20 in oral examination in groups (groups of 2, approx. 30 minutes), or an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes), or an oral examination in discover all modules (separate module component for assessment purposes (Prüfungstellmodul)) and this examination as passed.</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: circuit prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for admission to assessment and examination (approx. 90 to 180 minutes); If announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes). How most all prerequisites will be admitted to assessment in effect. Students have obtain the qualification for admission to assessment anew.</li> </ul> Assessment in module component to-M-UA>-122: Linear Algebra 2. <ul> <li>8 ECTS, Method of grading: (not) successfully completed if the module component was selected as subject of the oral examination covering several modules (separate module component was selected as subject of the oral examination or passed. Language of assessment: German, English if agreed upon with the examination cappes (groups of 2, approx. 30 minutes), if announced by the lecturer, the written examination cappes (priuges of 2, approx. 30 minutes). Matten examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes). Ma</li></ul>                 |                        |       | <ul> <li>10-M-LNA-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-LNA-2-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-LNA-P-122: M (no information on SWS (weekly contact hours) and course language available)</li> </ul> |          |                 |   |   |   |   |   |
| <ul> <li>8 ECTS, Method of gräding: (not) successfully completed</li> <li>written examination approx. yo to iso minutes); if announced by the lecturer, the written examination is a speaked by an oral examination or overing several modules (separate module component for assessment purposes (Prüfungsteilmodul)) and this examination was passed.</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will put their registration for assessment into effect. Students about the respective details at the beginning of the course. Registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment anew.</li> <li>Assessment in module component to M-MLAx-122: Literar Algebra 2</li> <li>8 ECTS, Method of grading: (not) successfully completed</li> <li>written examination of approx. yo to 180 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination on overing several monuced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 on inutes). Or an oral examination in groups (groups of 2, approx. 30 minutes). Module will also be considered successfully completed if the module component was selected as subject of the oral examination covering several modules (separate module component was selected as subject of the oral examination in several modules (separate module component to assessment purposes (Prüfungsteilmodul) and this examination was passed.</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites will be admitted to assessment. The lecturer will inform students about</li></ul> |                        | Wetho |  | ,cooment |                 |   |   |   |   |   |
| other prerequisites By way of exception, additional prerequisites are listed in the section on assessments.  |                        |       |  |          | Asses<br>•<br>• | 8 ECTS, Method of<br>written examinati<br>by an oral examin<br>approx. 30 minut<br>as subject of the<br>(Prüfungsteilmod<br>Language of asse<br>Other prerequisit<br>students about th<br>a declaration of w<br>assessment over<br>dents who meet<br>assessment at a l<br>sment in module of<br>8 ECTS, Method of<br>written examinati<br>by an oral examin<br>approx. 30 minut<br>as subject of the<br>(Prüfungsteilmod<br>Language of asse<br>Other prerequisit<br>students about th<br>a declaration of w<br>assessment over<br>dents who meet<br>assessment at a l<br>sment in module of<br>assessment at a l<br>sment in module of<br>assessment at a l<br>sment in module of<br>assessment at a l<br>assessment at a l<br>assessment at a l<br>assessment at a l<br>sment in module of<br>a fector, Method of<br>oral examination<br>modules 10-M-LN<br>Language of asse<br>Only after succes | of grading: (not) succes<br>on (approx. 90 to 180 r<br>nation of one candida<br>es). Module will also b<br>oral examination cover<br>ul)) and this examinat<br>essment: German, Eng<br>es: Certain prerequisit<br>he respective details a<br>will to seek admission<br>the course of the sen<br>all prerequisites will b<br>later date, students wi<br><b>component 10-M-LNA-</b><br>of grading: (not) succes<br>on (approx. 90 to 180 r<br>nation of one candida<br>es). Module will also b<br>oral examination cover<br>ul)) and this examinat<br>essment: German, Eng<br>es: Certain prerequisit<br>he respective details a<br>will to seek admission<br>the course of the sen<br>all prerequisites will b<br>later date, students wi<br>component 10-M-LNA-<br>of grading: numerical g<br>of one candidate eac<br>lA-1 and 10-M-LNA-2<br>essment: German, Eng<br>estul completion of mo | ssfully completed<br>ninutes); if announced by the<br>te each (approx. 20 minutes)<br>oring several modules (sepa-<br>ion was passed.<br>ish if agreed upon with the<br>es must be met to qualify for<br>it the beginning of the cour<br>to assessment. If students<br>nester, the lecturer will put<br>e admitted to assessment<br>Il have to obtain the qualifie<br><b>2-122:</b> Linear Algebra 2 Linear<br>Sifully completed<br>ninutes); if announced by the<br>te each (approx. 20 minutes)<br>es must be met to qualify for<br>it the beginning of the cour<br>to assessment. If students<br>ish if agreed upon with the<br>es must be met to qualify for<br>it the beginning of the cour<br>to assessment. If students<br>nester, the lecturer will put<br>e admitted to assessment<br>Il have to obtain the qualify<br><b>P-122:</b> Examination in Linear<br>rade<br>th (approx. 30 minutes); as<br>ish if agreed upon with the<br>bodule components: Success | e lecturer, the writte<br>es) or an oral exami<br>completed if the mo-<br>rate module compo-<br>examiner<br>radmission to asses<br>readmission to asses<br>readmission to asses<br>readmission to asses<br>readmission for admission<br>ear Algebra 2<br>e lecturer, the written<br>es) or an oral exami<br>completed if the mo-<br>rate module compo-<br>examiner<br>radmission to asses<br>readmission to | nation in groups (groups of 2,<br>odule component was selected<br>nent for assessment purposes<br>assessment. The lecturer will inform<br>the course will be considered<br>qualification for admission to<br>or assessment into effect. Stu-<br>the subsequent semester. For<br>n to assessment anew.<br>In examination can be replaced<br>nation in groups (groups of 2,<br>odule component was selected<br>nent for assessment purposes<br>assent. The lecturer will inform<br>the course will be considered<br>qualification for admission to<br>or assessment into effect. Stu-<br>the subsequent semester. For<br>n to assessment anew.<br>e reference to the contents of<br>he written examination in any |
|  |                        |       |  |          |                 |   |   |   |   | component 10-M-LNA-P.   |
|  | Deskala da u 'il i i i |       |  |          | By wa           | y of exception, ad  | ditional prerequisites  |   |   |   |

| 10-M-VAN-122-        | Advanced Analysis                   |                 |          |  |  |   |   |   |   |  |  |  |  |
|----------------------|-------------------------------------|-----------------|----------|--|--|---|---|---|---|--|--|--|--|
| m01                  | ECTS                                | ECTS 9 Duration |          |  | 1 semester   | Method of grading   | numerical grade   | Modul level   | undergraduate   |  |  |  |  |
|                      | Course                              | es              |          | V + Ü  | V + Ü (no information on SWS (weekly contact hours) and course language available)   |   |   |   |   |  |  |  |  |
|                      | Methoo                              | d of ass        |          | if ann<br>20 mi  | written examination (approx. 90 to 180 minutes)<br>if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx.<br>20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes)<br>Language of assessment: German, English if agreed upon with the examiner |   |   |   |   |  |  |  |  |
|                      |                                     | orerequi        |          | tive d<br>on to<br>the le<br>sessn<br>ficatio                                      | etails at the beginn<br>assessment. If stuc<br>cturer will put their<br>nent in the current o<br>on for admission to   | ing of the course. Reg<br>lents have obtained t<br>registration for asses                           | sistration for the course will be on<br>the qualification for admission to<br>sment into effect. Students who | considered a de<br>o assessment o<br>o meet all prere | form students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>quisites will be admitted to as-<br>ents will have to obtain the quali- |  |  |  |  |
| 10-M-MWR-122-<br>m01 | Modelling and Computational Science |                 |          |  |  |   |   |   |   |  |  |  |  |
|                      | ECTS                                | 10              | Duration |  | 1 semester   | Method of grading   | =   | Modul level   | undergraduate   |  |  |  |  |
|                      | Course                              | -               |          | V + Ü (no information on SWS (weekly contact hours) and course language available) |  |   |   |   |   |  |  |  |  |
|                      | Metho                               | d of ass        |          | if ann<br>20 mi  | ounced by the lecturnutes) or an oral ex   | amination in groups   |   |   | n of one candidate each (approx.  |  |  |  |  |
|                      | other p                             | prerequi        | sites    | tive d<br>on to<br>the le<br>sessn   | etails at the beginn<br>assessment. If stuc<br>cturer will put their   | ing of the course. Reg<br>lents have obtained t<br>registration for asses<br>or in the subsequent s | sistration for the course will be on<br>the qualification for admission to<br>sment into effect. Students who | considered a de<br>o assessment o<br>o meet all prere | form students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>quisites will be admitted to as-<br>ents will have to obtain the quali- |  |  |  |  |

| 10-M-NUM-122-           | Numer  | ical Ma   | athematics    |  |  |   |  |   |   |
|-------------------------|--------|-----------|---------------|--|--|---|--|---|---|
| m01                     | ECTS   | 20        | Duratio       | n 2 semester   | Method of grading nume   | erical grade  | Modul level  | undergraduate   |   |
|                         | Course |           |               | <ul> <li>10-M-NUM-1-122</li> <li>10-M-NUM-2-122</li> <li>10-M-NUM-P-122</li> </ul>   | 3 module components. Inform<br>V + Ü (no information on SW<br>V + Ü (no information on SW<br>M (no information on SWS (  | 'S (weekly contact hours)<br>/S (weekly contact hours)<br>weekly contact hours) an  | and course lan<br>and course lan<br>d course langua  | guage available)<br>guage available)<br>age available)  | ·   |
|                         | Metho  | d of ass  | sessment      |  | lule comprises the assessme<br>ssful completion of the modu  |   |  |   |   |
|                         |        |           |               | <ul> <li>8 ECTS, Method of</li> <li>written examinat<br/>by an oral exami<br/>approx. 30 minut<br/>as subject of the<br/>(Prüfungsteilmood</li> <li>Language of asse</li> <li>Other prerequisit<br/>students about t<br/>a declaration of<br/>assessment over<br/>dents who meet<br/>assessment at a</li> <li>Assessment in module</li> <li>8 ECTS, Method of</li> <li>written examinat<br/>by an oral exami<br/>approx. 30 minut<br/>as subject of the<br/>(Prüfungsteilmood</li> <li>Language of asse</li> <li>Other prerequisit<br/>students about t<br/>a declaration of<br/>assessment over<br/>dents who meet<br/>assessment over<br/>dents who meet<br/>assessment at a</li> <li>Assessment in module</li> <li>4 ECTS, Method of<br/>oral examinatior<br/>modules 10-M-NI</li> <li>Language of asses</li> </ul> | component 10-M-NUM-1-122<br>of grading: (not) successfully<br>ion (approx. 90 to 180 minutes<br>nation of one candidate each<br>ces). Module will also be cons-<br>oral examination covering se-<br>lul)) and this examination was<br>essment: German, English if a<br>es: Certain prerequisites mus-<br>he respective details at the b-<br>will to seek admission to ass-<br>the course of the semester,<br>all prerequisites will be adm<br>later date, students will have<br>component 10-M-NUM-2-122<br>of grading: (not) successfully<br>ion (approx. 90 to 180 minutes<br>nation of one candidate each<br>ces). Module will also be cons-<br>oral examination covering se-<br>lul)) and this examination was<br>essment: German, English if a<br>es: Certain prerequisites mus-<br>he respective details at the b-<br>will to seek admission to ass-<br>the course of the semester,<br>all prerequisites will be adm<br>aest certain prerequisites mus-<br>he respective details at the b-<br>will to seek admission to ass-<br>the course of the semester,<br>all prerequisites will be adm<br>later date, students will have<br>component 10-M-NUM-P-122<br>of grading: numerical grade<br>of one candidate each (app<br>JM-1 and 10-M-NUM-2<br>essment: German, English if a<br>soful completion of module of | completed<br>s); if announced by the lea<br>h (approx. 20 minutes) of<br>sidered successfully com<br>everal modules (separate<br>is passed.<br>agreed upon with the exa<br>to be met to qualify for adr<br>beginning of the course.<br>sessment. If students have<br>the lecturer will put the<br>itted to assessment in the<br>to obtain the qualification<br>: Numerical Mathematics<br>completed<br>s); if announced by the lea<br>h (approx. 20 minutes) of<br>sidered successfully com<br>everal modules (separate<br>is passed.<br>agreed upon with the exa<br>the lecturer will put the<br>itted to assessment in the<br>considered successfully com<br>everal modules (separate<br>is passed.<br>agreed upon with the exa<br>the lecturer will put the<br>itted to assessment in the<br>cobtain the qualification<br>: Examination in Numerice<br>prox. 30 minutes); assess<br>agreed upon with the exa | cturer, the writter<br>or an oral exami-<br>pleted if the mo-<br>module compo-<br>miner<br>mission to assess<br>Registration for<br>ve obtained the<br>ir registration for<br>on for admission<br>is 2 Numerical M<br>cturer, the writter<br>or an oral exami-<br>pleted if the mo-<br>module compo-<br>miner<br>mission to assess<br>Registration for<br>ve obtained the<br>ir registration for<br>he current or in<br>on for admission<br>cal Mathematics<br>issment will hav<br>miner | en examination can be<br>ination in groups (g<br>podule component was<br>sement for assessment<br>the course will be<br>qualification for ad<br>or assessment into<br>the subsequent sem<br>athematics 2<br>en examination can be<br>ination in groups (g<br>podule component was<br>sement. The lecturer<br>the course will be<br>qualification for ad<br>or assessment into<br>the subsequent sem<br>in to assessment and<br>sement for assessment and<br>for assessment into<br>the subsequent sem<br>in to assessment and<br>sement to the sement and<br>sement and sement and<br>sement to the sement and<br>sement to the sement and<br>sement to the sement and<br>sement and sement and sement and<br>sement and sement and sement and<br>sement and sement and<br>sement and sement and sement and sement and sement and<br>sement and sement and sement and<br>sement and sement and se | roups of 2,<br>as selected<br>it purposes<br>will inform<br>considered<br>lmission to<br>effect. Stu-<br>mester. For<br>ew.<br>be replaced<br>roups of 2,<br>as selected<br>it purposes<br>will inform<br>considered<br>lmission to<br>effect. Stu-<br>mester. For<br>ew. |
|                         | - 41   |           |               | one of the other   | wo module components is a  | prerequisite for participa  | ation in module  |   |   |
| Pachalar's with a main  |        | orerequ   |               | By way of exception, ad  | ditional prerequisites are list  |   |  | acord Polfo ( Lulance   | nage ( ) is   |
| Bachelor's with 1 major |        | nai Mathe | matics (2012) |  |  |   | mesters.   | ecora 82 124 - - H 2012   | page 6 / 43   |

| 10-M-VTC-122-m01 | Advanc  | ed Com   | putationa | l Math   | ematics  |  |   |  |   |
|------------------|---------|----------|-----------|--|--|--|---|--|---|
|                  | ECTS    | 20       | Duration  |  | 2 semester   | Method of grading  | numerical grade   | Modul level  | undergraduate   |
|                  | Course  | S        |           | •  | 10-M-STO-1-122, 10 guage and number  | -M-DGL-1-122, 10-M-<br>of weekly contact ho  |   | nd 10-M-FAN-1-12   | 2: V + Ü (no information on lan-  |
|                  | Methoo  | d of ass |           |  |  |  | components. To pass this mod<br>below and the assessment co   |  |   |
|                  |         |          |           | wöhnl<br>Funkti<br>metric<br>Analys<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | iche Differentialglei<br>ionentheorie (Introd<br>Analysis), and <b>in m</b><br>sis) :<br>8 ECTS credits, pas<br>written examinatio<br>ced by an oral exar<br>dates (approx. 30 f<br>as subject of the or<br>(Prüfungsteilmodu<br>Language of asses<br>Additional prerequ<br>turer will inform stu<br>be considered a de<br>admission to asses<br>effect. Students wh<br>ster. For assessment<br><b>sment in module co</b><br>omputational Mather<br>4 ECTS credits, nur<br>oral examination o<br>in the two module<br>Language of asses<br>Only after successi | ichungen (Ordinary D<br>iuction to Complex An<br>iodule component 10<br>is / fail<br>n (approx. 90 to 180<br>mination of one cand<br>minutes). The modul<br>ral examination cove<br>l)) and this examinat<br>sment: German; Engl<br>isites: To qualify for<br>udents about the res<br>claration of will to se<br>sector the cour<br>no meet all prerequis<br>nt at a later date, stu-<br>mponent 10-M-VTC-I<br>ematics)<br>nerical grading<br>f one candidate each<br>components selected<br>sment: German; Engl<br>ful completion of mo | offerential Equations), in mod<br>nalysis), in module componen<br>o-M-FAN-1-122: Einführung in o<br>lidate each (approx. 20 minut<br>e component will also be con<br>ring several modules (separat<br>ion is passed.<br>lish if agreed upon with exami<br>admission to assessment, stu<br>pective details at the beginnin<br>eek admission to assessment<br>se of the semester, the lectur<br>ites will be admitted to assess<br>dents will have to obtain the o<br>P-122: Prüfung in Vertiefung C<br>n (approx. 30 minutes). Asses<br>d by students.<br>lish if agreed upon with exami | ule component 10<br>It 10-M-GAN-1-12<br>die Funktionaland<br>e lecturer, the write<br>es) or an oral exa<br>sidered successive<br>module component<br>inter(s)<br>idents must meet<br>ner(s)<br>idents must meet<br>ner(s)<br>inter the curred<br>publication for a<br>omputational Material<br>sment will have to<br>ner(s)<br>mponent 10-M-V | component 10-M-DGL-1-122: Ge-<br>o-M-FTH-1-122: Einführung in die<br>2: Geometrische Analysis (Geo-<br>alysis (Introduction to Functional<br>tten examination may be repla-<br>amination in groups of 2 candi-<br>fully completed if it is selected<br>onent for assessment purposes<br>t certain prerequisites. The lec-<br>Registration for the course will<br>e obtained the qualification for<br>egistration for assessment into<br>ent or in the subsequent seme-<br>dmission to assessment anew.<br>athematics (Assessment in Advan-<br>reference to the topics covered |
|                  | other p | rerequi  | sites     | By wa  |  |  | are listed in the section on as   |  |   |
|                  |         |          |           | <u> </u>   | <u>, , , , , , , , , , , , , , , , , , , </u>  | module duration: 1   |   |  |   |

| Computational Mathematics         10-M-MKG-122-<br>mo1       Mathematics in Culture and Society         ECTS       8       Duration       2 semester       Method of grading       (not) successfully completed       Modul level       undergraduate         Courses       This module has 4 components; information on courses listed separately for each component.       •       10-M-GES-1-122, 10-M-MSC-1-122, and 10-M-SCH-1-122: V + Ü (no information on language and number of we tact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)       •       10-M-PRO-1-122: S (no information on language and number of  |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| mo1       ECTS       8       Duration       2 semester       Method of grading       (not) successfully completed       Modul level       undergraduate         Courses       This module has 4 components; information on courses listed separately for each component.       10-M-GES-1-122, 10-M-MSC-1-122, and 10-M-SCH-1-122: V + Ü (no information on language and number of we tact hours available)         Method of assessment       This module has the following 4 assessment components. To pass the module as a whole students must pass two assessment components.         Assessment in module component 10-M-GES-1-122: Ausgewählte Kapitel aus der Geschichte der Mathematik (Sele from the History of Mathematics), in module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematica and in module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from   |   |  |  |  |  |  |  |
| Courses       This module has 4 components; information on courses listed separately for each component.         • 10-M-GES-1-122, 10-M-MSC-1-122, and 10-M-SCH-1-122: V + Ü (no information on language and number of we tact hours available)         • 10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)         • Method of assessment         This module has the following 4 assessment components. To pass the module as a whole students must pass two assessment components.         Assessment in module component 10-M-GES-1-122: Ausgewählte Kapitel aus der Geschichte der Mathematik (Selef from the History of Mathematics), in module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematic from the History of Mathematics), is module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematic from the History of Mathematics), is module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematics from the History of Mathematics), is module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematics from the History of Mathematics), is module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematics from the History of Mathematics), is module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematics from the History of Mathematics), is module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematics from tand in module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from tand in Module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from tand in Module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from tand in Module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from tand in Module component 10-M-SCH-1-122: Schulmathematik vom höheren  |   |  |  |  |  |  |  |
| <ul> <li>10-M-GES-1-122, 10-M-MSC-1-122, and 10-M-SCH-1-122: V + Ü (no information on language and number of we tact hours available)</li> <li>10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)</li> <li>Method of assessment</li> <li>This module has the following 4 assessment components. To pass the module as a whole students must pass two assessment components.</li> <li>Assessment in module component 10-M-GES-1-122: Ausgewählte Kapitel aus der Geschichte der Mathematik (Sele from the History of Mathematics), in module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematic and in module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from</li> </ul>   |   |  |  |  |  |  |  |
| assessment components.  Assessment in module component 10-M-GES-1-122: Ausgewählte Kapitel aus der Geschichte der Mathematik (Sele<br>from the History of Mathematics), in module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematic<br>and in module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from  | of the four 1   |  |  |  |  |  |  |
| <ul> <li>Perspective):</li> <li>4 ECTS credits, pass / fail</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the cou</li> <li>Assessment will be offered in the semester in which the course is offered and in the subsequent semester.</li> <li>Language of assessment: German; English if agreed upon with examiner(s)</li> <li>Additional prerequisites: To qualify for admission to assessment, students must meet certain prerequisites turer will inform students about the respective details at the beginning of the course. Registration for the course of the semester, the lecturer will put their registration for assessment or a declaration of will to seek admission to assessment in the current or in the subseque ster. For assessment at a later date, students will have to obtain the qualification for admission to assessment in module component 10-M-PRO-1-122: Proseminar Mathematik (Proseminar Mathematics)</li> <li>4 ECTS credits, pass / fail</li> <li>talk (approx. 6o to 18 minutes)</li> <li>Assessment will be offered in the semester in which the course is offered and in the subsequent semester.</li> <li>Language of assessment: German; English if agreed upon with examiner(s)</li> <li>Additional prerequisites: To qualify for admission to assessment, students must meet certain prerequisites turer will inform students about the respective details at the beginning of the course. Registration for the course is offered and in the subsequent semester.</li> <li>Language of assessment: German; English if agreed upon with examiner(s)</li> <li>Additional prerequisites: To qualify for admission to assessment, students must meet certain prerequisites turer will inform students about the respective details at the beginning of the course. Registration for the course is offered and in the subsequent semester.</li> <li>Language of assessment or will be offered in the semester in which the course is offered and in the subsequent semester.</li> <li>Additional prerequisites: To qualif</li></ul> | ected Topics<br>cal Writing),<br>n a Higher<br>urse)<br>The lec-<br>ourse will<br>cation for<br>nent into<br>nt seme-<br>nt anew. |  |  |  |  |  |  |
| other prerequisites By way of exception, additional prerequisites are listed in the section on assessments.  |   |  |  |  |  |  |  |
| Additional Information Additional information on module duration: 1 to 2 semesters.  |   |  |  |  |  |  |  |

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|--|---|-------------|

| 10-M-SE2-122-m01 | Additio | nal Sem   | inar in M | lathem                                 | atics   | ,  |  | 18   |  |
|------------------|---------|-----------|-----------|--|---|--|--|--|--|
|                  | ECTS    | 5         | Duration  | 1 I                                    | 1 semester  | Method of grading  | (not) successfully completed   | Modul level  | undergraduate  |
|                  | Course  | S         |           | S (no                                  | nformation on SWS   | (weekly contact hou  | rs) and course language availa   | ble)   |  |
|                  | Methoo  | d of asse | essment   |  | pprox. 60 to 180 mi<br>age of assessment:                                 |  | greed upon with the examiner   |  |  |
|                  | other p | rerequis  |           | tive de<br>on to a<br>the lee<br>sessm | etails at the beginnin<br>assessment. If stude<br>cturer will put their r | ng of the course. Reg<br>ents have obtained th<br>registration for assess<br>r in the subsequent s | istration for the course will be<br>ne qualification for admission t<br>sment into effect. Students wh | considered a de<br>to assessment o<br>o meet all prere | form students about the respec-<br>claration of will to seek admissi-<br>ver the course of the semester,<br>quisites will be admitted to as-<br>nts will have to obtain the quali- |

|     |          |         |          | mputational Mathema  |   |   |   |  |  |  |  |
|-----|----------|---------|----------|--|---|---|---|--|--|--|--|
| ECT | 'S   1   | 10      | Duration |  | Method of grading numerical grad  |   | Modul level   | undergraduate  |  |  |  |
|     | irses    | of ass  | essment  | <ul> <li>This module has 13 components; information on courses listed separately for each component.</li> <li>10-M-STO-1-122, 10-M-ALG-1-12, 10-M-DGE-1-122, 10-M-DGL-1-122, 10-M-FTH-1-122, 10-M-GAN-1-122, 10-M-PGE-1-122, 10-M-DIM-1-122, 10-M-FAN-1-122, 10-M-ORS-1-122, 10-M-ZTH-1-122, and 10-M-MMP-2-122: V + Ü (no information on language and number of weekly contact hours available)</li> <li>10-M-ERC-P-122: M (no information on language and number of weekly contact hours available)</li> <li>This module has the following 13 assessment components. To pass this module, students must pass one out of the 12 as-</li> </ul>  |   |   |   |  |  |  |  |
|     |          |         |          | <ul> <li>sessment componen</li> <li>Assessment in modu<br/>führung in die Algebr<br/>trie (Introduction to E<br/>dinary Differential Eq<br/>Complex Analysis), ir<br/>nent 10-M-PGE-1-122<br/>10-M-DIM-1-122: Einf<br/>FAN-1-122: Einführun<br/>Operations Research<br/>ry), and in module co<br/>Physics 2) :</li> <li>8 ECTS credits</li> <li>written examir<br/>ced by an oral<br/>dates (approx.<br/>as subject of t<br/>(Prüfungsteilm)</li> <li>Language of a:</li> <li>Additional pre<br/>turer will infort<br/>be considered<br/>admission to a<br/>effect. Studen<br/>ster. For asses</li> <li>Assessment in modu<br/>ted Topics from Comp</li> <li>2 ECTS credits</li> <li>oral examinati<br/>in the module</li> </ul> | nts that are first in the list below and the<br>ale component 10-M-STO-1-122: Stochas<br>ra (Introduction to Algebra) in module co<br>Differential Geometry), in module component<br>quations), in module component 10-M-FT<br>n module component 10-M-GAN-1-122: G<br>2: Einführung in die Projektive Geometrie<br>führung in die Diskrete Mathematik (Intro<br>ng in die Funktionalanalysis (Introductior<br>n, in module component 10-M-ZTH-1-122:<br>component 10-M-MMP-2-122: Mathematik | assessment com<br>stik 1 (Stochastics<br>omponent 10-M-DG<br>onent 10-M-DGL-1-<br>FH-1-122: Einführu<br>Geometrische Ana<br>e (Introduction to Discre<br>n to Functional An<br>: Einführung in die<br>k in der Mathema<br>nounced by the le<br>oprox. 20 minutes<br>will also be considered<br>odules (separate<br>pon with examine<br>issessment, stude<br>at the beginning<br>to assessment. If<br>ester, the lecturer<br>nitted to assessment. If<br>ester, the lecturer<br>nitted to assessment<br>in Ergänzung Cor | a), <b>in module</b><br><b>GE-1-122:</b> Einfü<br><b>GE-1-122:</b> Einfü<br><b>GE-1-122:</b> Gewöhnli<br>ung in die Funk<br>lysis (Geometri<br>Projective Geo<br>ete Mathemati<br>alysis), <b>in moo</b><br>e Zahlentheori<br>tischen Physik<br>ecturer, the wri<br>) or an oral exa<br>dered success<br>module compo<br>er(s)<br>ents must mee<br>of the course.<br>f students have<br>will put their ment in the curr<br>alification for a<br>nputational Man<br>hent will have | last in the list below.<br><b>component 10-M-ALG-1-122:</b> Ein-<br>ihrung in die Differentialgeome-<br>iche Differentialgleichungen (Or-<br>tionentheorie (Introduction to<br>ric Analysis), <b>in module compo-</b><br>metry), <b>in module component 10-M-</b><br><b>dule component 10-M-ORS-1-122:</b><br>e (Introduction to Number Theo-<br>2 (Mathematics in Mathematical<br>tten examination may be repla-<br>amination in groups of 2 candi-<br>fully completed if it is selected<br>onent for assessment purposes<br>t certain prerequisites. The lec-<br>Registration for the course will<br>e obtained the qualification for<br>egistration to assessment into<br>ent or in the subsequent seme-<br>dmission to assessment in Select- |  |  |  |
|     |          |         |          | <ul> <li>Only after succession</li> </ul>  | cessful completion of module compone  | nts: Module com   | ponent 10-M-E   |  |  |  |  |
| 41  |          | •       | -:+      |  | ssed the written examination in one of th   |   | •   |  |  |  |  |
|     | <u> </u> | erequi  | _        |  | additional prerequisites are listed in the  |   | ssments.  |  |  |  |  |
| Add | lition   | al Info | ormation | Additional informatio  | on on module duration: 1 to 2 semesters.  | •   |   |  |  |  |  |

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### Application-oriented Subject

Students must take one of the following application-oriented subjects, each with the specified mandatory courses and/or mandatory electives: Biologie (Biology), Chemie (Chemistry), Informatik (Computer Science), Physik (Physics).

### **Application-oriented Subject Biology**

#### Application-oriented Subject Biology Compulsory Electives 1

|                        | _ |
|------------------------|---|
| 07-2A2GN-<br>V-072-m01 |   |
| V-072-m01              |   |

| 07-2A2GN-      | Genetics, Neurobiology, Behaviour                                 |                       |           |  |  |   |  |  |                     |  |  |  |  |
|----------------|---|-----------------------|-----------|--|--|---|--|--|---------------------|--|--|--|--|
| V-072-m01      |   | 6                     | Duratio   |  | 1 semester   | Method of grading                                   | numerical grade  | Modul level  | undergraduate       |  |  |  |  |
|                | Course  | S                     |           | •  | 07-2A2GNV-1G-072<br>07-2A2GNV-2N-072   | : V + Ü (no information<br>2: V + Ü (no information | . Information on course<br>on on SWS (weekly cont<br>on on SWS (weekly con<br>on on SWS (weekly cont | tact hours) and course l<br>tact hours) and course | language available) |  |  |  |  |
|                | Method of assessment  |                       |           | Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.   |  |   |  |  |                     |  |  |  |  |
|                |   |                       |           | <ul> <li>Assessment in module component o7-2A2GNV-1G-072: Basic Genetics Basic Genetics</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> <li>Assessment in module component o7-2A2GNV-2N-072: Basic Neurobiology Basic Neurobiology</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> <li>Assessment in module component o7-2A2GNV-3V-072: Behavioural Biology Behavioural Biology</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> <li>Assessment in module component o7-2A2GNV-3V-072: Behavioural Biology Behavioural Biology</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes, word problems and/or multiple choice questions)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful comple-</li> </ul> |  |   |  |  |                     |  |  |  |  |
|                | other p   | rerequis              | ites      | By way of exception, additional prerequisites are listed in the section on assessments.  |  |   |  |  |                     |  |  |  |  |
|                | cation  | oants an<br>of places | S         | Only as part of "spezielles Studienangebot": 10 places.  |  |   |  |  |                     |  |  |  |  |
| 07-2BM-072-m01 |   | matical E             | Biology a | nd Bio   | statistics   |   |  |  |                     |  |  |  |  |
|                | ECTS  | 4                     | Duratio   |  | 1 semester   | Method of grading                                   |  | Modul level  | undergraduate       |  |  |  |  |
|                | Course  | S                     |           |  | `  | . ,   | hours) and course lang   | <u> </u>   |                     |  |  |  |  |
|                | Method of assessment  |                       |           |  | written examination (approx. 45 minutes) including multiple choice questions   |   |  |  |                     |  |  |  |  |
|                | other prerequisites<br>Participants and allo-<br>cation of places |                       |           |  | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. |   |  |  |                     |  |  |  |  |
|                |   |                       |           | Only a   | is part of "spezielles   | s Studienangebot": 3                                | o places.  |  |                     |  |  |  |  |

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| 07-2A2TP-NF-082- | Basic F  | Physiol             | ogy of Ani | mals f         | or minor field of  | study   |  |   |  |  |  |  |  |
|------------------|--|---------------------|------------|----------------|--|---|--|---|--|--|--|--|--|
| n01              | ECTS   | 3                   | Duratio    | n              | 1 semester   | Method of grading   | numerical grade  | Modul level   | undergraduate  |  |  |  |  |
|                  | Course   | es                  |            | V + Ü          | (no information  | on SWS (weekly contac   | t hours) and course lang   | guage available)  |  |  |  |  |  |
|                  | Metho  | d of ass            | essment    | writte         | written examination (approx. 60 minutes, word problems and/or multiple choice questions)   |   |  |   |  |  |  |  |  |
|                  | other p  | orerequi            | isites     | Adm<br>as sp   | dmission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises s specified at the beginning of the course.   |   |  |   |  |  |  |  |  |
| 07-2A2PPR-       | Basic Physiology of Prokaryotes for minor field of study |                     |            |                |  |   |  |   |  |  |  |  |  |
| NF-082-m01       | ECTS   | 3                   | Duratio    | n              | 1 semester   | Method of grading   | numerical grade  | Modul level   | undergraduate  |  |  |  |  |
|                  | Course   | es                  |            | V + Ü          | (no information  | on SWS (weekly contac   | t hours) and course lang   | guage available)  |  |  |  |  |  |
|                  | Metho  | d of ass            | essment    | writte         | en examination (   | approx. 60 minutes) inc   | luding multiple choice of  | questions   |  |  |  |  |  |
| 07-2A2PPF-       | Basic F  | Physiol             | ogy of Pla | nts fo         | r minor field of st  | tudy  |  |   |  |  |  |  |  |
| NF-082-m01       | ECTS   | 3                   | Duratio    | n              | 1 semester   | Method of grading   | numerical grade  | Modul level   | undergraduate  |  |  |  |  |
|                  | Course   | es                  |            | V + Ü          | (no information  | on SWS (weekly contac   | t hours) and course lang   | guage available)  | ÷  |  |  |  |  |
|                  | Metho  | d of ass            | essment    | writte         | written examination (approx. 45 minutes)   |   |  |   |  |  |  |  |  |
|                  | other p  | orerequi            | isites     |                | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.   |   |  |   |  |  |  |  |  |
| 07-3A30E-102-    | Plant a  | and Anii            | mal Ecolog | sy             |  |   |  |   |  |  |  |  |  |
| m01              | ECTS   | 6                   | Duratio    | n              | 1 semester   | Method of grading   | numerical grade  | Modul level   | undergraduate  |  |  |  |  |
|                  | Course   | 25                  |            | •              | <ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o7-3A3OE-1-102: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>o7-3A3OE-2-102: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul> |   |  |   |  |  |  |  |  |
|                  | Metho  | d of ass            | sessment   | Asse           | ssment in this m   | odule comprises the as  | sessments in the individ   | dual module componen  | ts as specified below. Unless<br>f all individual assessments.   |  |  |  |  |
|                  |  |                     |            | •<br>•<br>Asse | 3 ECTS, Methor<br>written examin<br>Other prerequi<br>tion of the resp<br>ssment in modul<br>3 ECTS, Methor<br>written examin<br>Other prerequi  | bective exercises as spe<br>le component o7-3A3OE<br>d of grading: numerical<br>ation (approx. 45 minut | grade<br>es)<br>uisite to assessment: re<br>cified at the beginning of<br>- <b>2-102:</b> Plant Ecology Pl<br>grade<br>es)<br>uisite to assessment: re | egular attendance of ex<br>of the course.<br>lant Ecology<br>egular attendance of exe | ercises and successful comple-<br>ercises and successful comple- |  |  |  |  |
|                  | other p  | orerequ             | isites     |                |  | additional prerequisites  |  |   |  |  |  |  |  |
|                  |  | pants a<br>of place |            | Only           | as part of pool o  | f general key skills (ASC   | )): 15 places. Places will   | be allocated by lot.  |  |  |  |  |  |

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|--|---|--------------|
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|  |   |              |

| 07-3A3GM-        | Genes   | , Molec  | ules, Tech | nologies   |  |   |   |  |  |  |  |
|------------------|---------|----------|------------|--|--|---|---|--|--|--|--|
| T-102-m01        | ECTS    | 6        | Duratio    | n 1 semester   | Method of grading numerical grad   | e Modul level   | undergraduate   |  |  |  |  |
|                  | Course  | 25       |            | • 07-3A3GMT-1-1  | <ul> <li>This module has 4 components; information on courses listed separately for each component.</li> <li>o7-3A3GMT-1-102, 07-3A3GMT-2-102, 07-3A3GMT-3-102, and 07-3A3GMT-4-102: V (no information on language and number of weekly contact hours available)</li> </ul>  |   |   |  |  |  |  |
|                  | Metho   | d of ass | sessment   |  | following 4 assessment components. Unl<br>ts to pass the module as a whole.  | ess stated otherwise, studer  | nts must pass all of these as-  |  |  |  |  |
|                  |         |          |            | <ul> <li>Assessment in module component o7-3A3GMT-1-102: Genetik (Genetics), in module component o7-3A3GMT-2-102: Bioinformatik (Bioinformatics), in module component o7-3A3GMT-3-102: Biotechnologie (Biotechnology), and in module component o7-3A3GMT-4-102: Pharmakokinetik (Pharmacokinetics) :         <ul> <li>1.5 ECTS credits, numerical grading</li> <li>written examination (approx. 30 minutes, including multiple choice questions)</li> </ul> </li> </ul>  |  |   |   |  |  |  |  |
| 07-1A1ZO-NF-102- |         | ells to  | Organism   | s for minor field of stu   | dy   |   |   |  |  |  |  |
| m01              | ECTS    | 10       | Duratio    |  | Method of grading numerical grad   |   |   |  |  |  |  |
|                  | Courses |          |            | <ul> <li>o7-1A1ZO-3P-o<br/>contact hours</li> <li>o7-1A1ZO-NF-1</li> </ul>   | <ul> <li>This module has 4 components; information on courses listed separately for each component.</li> <li>o7-1A1ZO-3P-072, 07-1A1ZO-4T-072, and 07-1A1ZO-2E-102: V + Ü (no information on language and number of weekly contact hours available)</li> <li>o7-1A1ZO-NF-1Z-082: V (no information on language and number of weekly contact hours available)</li> <li>This module has the following 4 assessment components. Unless stated otherwise, students must pass all of these as-</li> </ul>   |   |   |  |  |  |  |
|                  |         |          |            | <ul> <li>sessment component</li> <li>Assessment in modul <ul> <li>4 ECTS credits,</li> <li>written examin</li> <li>Additional prercompletion of the sessment in modul</li> <li>4 ECTS credits,</li> <li>written examin</li> <li>Additional preras well as succe</li> </ul> </li> <li>Assessment in modul <ul> <li>1 ECTS credit, r</li> <li>written examin</li> </ul> </li> <li>Assessment in modul</li> <ul> <li>1 ECTS credit, r</li> <li>written examin</li> <li>Assessment in modul</li> <li>1 ECTS credit, r</li> <li>written examin</li> </ul> </ul> | ts to pass the module as a whole.<br>Ile component 07-1A1ZO-3P-072: Das Pfla<br>, numerical grading<br>nation (approx. 60 minutes)<br>requisites: admission prerequisite to asse<br>the respective exercises.<br>Ile component 07-1A1ZO-4T-072: Das Tierr<br>, numerical grading<br>nation (approx. 60 minutes)<br>requisites: admission prerequisite to asse<br>cessful completion of the respective exerci-<br>Ile component 07-1A1ZO-NF-1Z-082: Die Z<br>numerical grading<br>nation (approx. 60 minutes) including mul-<br>lation (approx. 60 minutes) including mul-<br>nation (approx. 60 minutes) including mul-<br>nation (approx. 60 minutes) including mul-<br>le component 07-1A1ZO-2E-102: Evolution | nzenreich (The Plant Kingdo<br>ssment: regular attendance<br>reich (The Animal Kingdom)<br>essment: regular attendance<br>tises as specified at the beg<br>elle für das Nebenfach Biolo<br>tiple choice questions | m)<br>of exercises as well as successful<br>of and participation in exercises<br>inning of the course.<br>gie (The Cell for Biology Minors) |  |  |  |  |
|                  | other r | orerequ  | isites     |  | additional prerequisites are listed in the   | <u> </u>  |   |  |  |  |  |

|  |   | 7            |
|--|---|--------------|
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| 07-3A3EBI-   | Develo   | pmental  | Biology  | of Anir  | of Animals   |                   |                 |             |               |  |
|--------------|--|----------|----------|--|--|-------------------|-----------------|-------------|---------------|--|
| OT-102-m01   | ECTS   | 4        | Duration | า  | 1 semester   | Method of grading | numerical grade | Modul level | undergraduate |  |
|              | Course   | S        |          | V + Ü  | V + Ü (no information on SWS (weekly contact hours) and course language available) |                   |                 |             |               |  |
|              | Method of assessment                                     |          |          | writte   | written examination (approx. 30 to 60 minutes) including multiple choice questions |                   |                 |             |               |  |
|              | other p  | rerequis | ites     | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. |  |                   |                 |             |               |  |
| 07-3A3E-     | Developmental Biology of Plants for minor field of study |          |          |  |  |                   |                 |             |               |  |
| BIOP-102-m01 | ECTS   | 4        | Duration | า  | 1 semester   | Method of grading | numerical grade | Modul level | undergraduate |  |
|              | Course   | S        |          | V + Ü (no information on SWS (weekly contact hours) and course language available)   |  |                   |                 |             |               |  |
|              | Method of assessment                                     |          |          | written examination (approx. 30 to 60 minutes) including multiple choice questions   |  |                   |                 |             |               |  |
|              | other p  | rerequis | ites     | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. |  |                   |                 |             |               |  |

Application-oriented Subject Biology Compulsory Electives 2 When taking up their studies, students are highly recommended to consult with the course advisory service Biology that will help them choose appropriate modules from the list below. Modules from the areas "Spezielle Biowissenschaften I / II" ("Specific Biosciences I / II") may only be used by students who achieved no less than 32 ECTS credits in the area of mandatory electives 1 beforehand.

| 07-4S1N-                  | Functional                 | Morphology            | of arth  | ropods  |   |  |   |   |  |  |
|---------------------------|----------------------------|-----------------------|--|---|---|--|---|---|--|--|
| V03-092-m01               | ECTS 5                     | Duratio               |  | 1 semester  | Method of grading   | _  | Modul level   | undergraduate   |  |  |
|                           | Courses                    |                       | V + Ü  | (no information on S  | SWS (weekly contact   | hours) and course language av  | vailable)   |   |  |  |
|                           | Method of                  | assessment            | · · · · ·  | oaper (approx. 5 to 1   | , -   |  |   |   |  |  |
|                           | other prere                | equisites             | as sp  | dmission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises s specified at the beginning of the course.  |   |  |   |   |  |  |
|                           | Participant<br>cation of p | ts and allo-<br>laces | follow<br>dits. S<br>Bache<br>will b<br>Bache<br>of the<br>ber of<br>from t<br>re will<br>ponen<br>cessfi<br>waitir<br>prima<br>ked a<br>studie<br>thema<br>ding t<br>to the<br>lated<br>the sa<br>(5%):<br>achie<br>achie | vs: Places will prima<br>Should the module be<br>elor's degree subject<br>e allocated to stude<br>elor's degree subject<br>application-oriente<br>places available in<br>the other quota. Sho<br>be a uniform regula<br>to that are concerne-<br>ully completed at lea<br>rily be allocated acco<br>coording to the num<br>es or of all module c<br>atik (Mathematics))<br>o their average grad<br>ir total number of Ec<br>as the sum of these<br>me ranking, places<br>Places will be allocated<br>yed in modules/mov<br>ved, places will be allocated<br>g applicants with the<br>by lot. Should the | rily be allocated to st<br>be used in other subject<br>Biologie (Biology) we<br>nts of the Bachelor's<br>ts Computational Mand<br>and subject Biology (as<br>one quota exceed the<br>build there be, within a<br>at one of the courses<br>of will be allocated in<br>ast one other module<br>ined and places re-a<br>cording to the application<br>ber of ECTS credits the<br>omponents in the sub-<br>at the time of application<br>two rankings, and pl<br>will be allocated acc-<br>ated according to the<br>allocated by lot. Quot<br>e same number of sub- | udents of the Bachelor's degree<br>ects, there will be two quotas:<br>ith 180 ECTS credits and 5% of<br>degree subject Biologie (Biolo<br>thematics and Mathematik (M<br>well as potentially to students<br>e number of applications, the<br>one module component, sever<br>of one module component. In t<br>a standardised procedure. In t<br>component of the respective r<br>llocated as they become availants' previous academic achieved<br>have achieved and their av<br>bject of Biologie (Biology) (exc<br>tition. This will be done as follo<br>g to the number of ECTS credits<br>(quantitative ranking). The app<br>aces will be allocated accordir<br>ording to the qualitative ranking<br>following quotas: Quota 1 (50'<br>he Faculty of Biology; among a<br>a 2 (25% of places): number of<br>bject semesters, places will be<br>in the Bachelor's degree subject | ee subject Biolog<br>95% of places w<br>f places (a minir<br>gy) with 60 ECTS<br>athematics), ead<br>s of other 'impor<br>remaining place<br>al courses with a<br>this case, places<br>this procedure, a<br>module will be g<br>able. Selection p<br>vements. For this<br>rerage grade of a<br>luding Chemie (<br>ws: First, applic<br>s (qualitative rar<br>plicants' position<br>g to this third ra<br>ng or otherwise f<br>% of places): tot<br>applicants with t<br>f subject semest<br>e allocated by lo | aces, places will be allocated as<br>gie (Biology) with 180 ECTS cre-<br>vill be allocated to students of the<br>num of one participant in total)<br>5 credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>s on all courses of a module com-<br>applicants who already have suc-<br>tiven preferential consideration. A<br>process group 1 (95%): Places will<br>s purpose, applicants will be ran-<br>all assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>nking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>cal number of ECTS credits already<br>the same number of ECTS credits, pla- |  |  |
| 07-3A3B-<br>C-102-m01     |                            | of Biochemis          | -  |   |   |  |   |   |  |  |
| C-102-1101                | ECTS 4                     | Duratio               |  | 1 semester  | Method of grading   |  | Modul level   | undergraduate   |  |  |
|                           | Courses                    |                       |  |   |   | hours) and course language av  |   |   |  |  |
|                           |                            | assessment            |  |   |   | ) including multiple choice qu   |   | lation of the recreative everying   |  |  |
|                           | other prere                |                       |  | ecified at the beginr   |   |  |   | oletion of the respective exercises   |  |  |
| Bachelor's with 1 major C | omputational Ma            | athematics (2012)     |  |   |   | JMU Würzburg • generated 26-Aug-2  | 024 • exam. reg. data i   | record 82 f24 - - H 2012 page 15 / 43   |  |  |

| 07-4A4FL-102-m01          | The F     | lora of Ge   | rmany        |  |  |  |   |
|---------------------------|-----------|--------------|--------------|--|--|--|---|
|                           | ECTS      | 7            | Duration     | 1 semester   | Method of grading numerical grade  | Modul level  | undergraduate   |
|                           | Cours     | ses          |              | • 07-4A4FL-1-102: V  | e module components. Information on courses<br>+ Ü (no information on SWS (weekly contact h<br>(no information on SWS (weekly contact hours  | ours) and course langu   | uage available)   |
|                           | Metho     | od of asse   | essment      |  | ule comprises the assessments in the individua<br>sful completion of the module will require suc   |  |   |
|                           |           |              |              | <ul> <li>4 ECTS, Method of</li> <li>written examinatio</li> <li>Assessment offered</li> </ul>  | omponent 07-4A4FL-1-102: Introduction to the<br>f grading: numerical grade<br>on (approx. 45 minutes) and practical identifica<br>ed: once a year, summer semester<br>es: Admission prerequisite to assessment: regu   | ation assignment (app  | rox. 45 minutes), weighted 1:1  |
|                           |           |              |              | tion of the respect<br>beginning of the c<br>Assessment in module c  | tive exercises (particular emphasis to be place<br>ourse.<br><b>omponent 07-4A4FL-2-102:</b> Field Excursions or   | ed on the setting up a   | herbarium) as specified at the  |
|                           |           |              |              | <ul> <li>log (approx. 1 to 2</li> </ul>  | f grading: (not) successfully completed<br>pages per field trip)<br>ed: once a year, summer semester   |  |   |
|                           | other     | prerequis    | sites        | By way of exception, add   | litional prerequisites are listed in the section o   | on assessments.  |   |
|                           |           | cipants an   |              | follows: Places will prima<br>dits. Should the module<br>Bachelor's degree subject<br>will be allocated to stude<br>Bachelor's degree subject<br>of the application-oriente<br>ber of places available in<br>from the other quota. Sh-<br>re will be a uniform regul<br>ponent that are concerne<br>cessfully completed at le<br>waiting list will be mainta<br>primarily be allocated ac<br>ked according to the num<br>studies or of all module of<br>thematik (Mathematics))<br>ding to their average grad<br>to their total number of E<br>lated as the sum of these<br>the same ranking, places<br>(5%): Places will be alloc | should the number of applications exceed the a<br>arily be allocated to students of the Bachelor's<br>be used in other subjects, there will be two qu<br>ct Biologie (Biology) with 180 ECTS credits and<br>ents of the Bachelor's degree subject Biologie (<br>sts Computational Mathematics and Mathemat<br>ed subject Biology (as well as potentially to stu-<br>none quota exceed the number of applications<br>ould there be, within one module component,<br>ation for the courses of one module componer<br>ed will be allocated in a standardised procedur<br>east one other module component of the respe-<br>ained and places re-allocated as they become<br>cording to the application. This will be done as<br>de weighted according to the number of ECTS of<br>ECTS credits achieved (quantitative ranking). The<br>two rankings, and places will be allocated accord<br>swill be allocated according to the qualitative<br>cated according to the following quotas: Quota<br>odule components of the Faculty of Biology; ar | degree subject Biolog<br>otas: 95% of places w<br>5% of places (a minim<br>(Biology) with 60 ECTS<br>tik (Mathematics), eac<br>udents of other 'import<br>5, the remaining places<br>several courses with a<br>nt. In this case, places<br>re. In this procedure, a<br>ective module will be gi<br>available. Selection pr<br>achievements. For this<br>neir average grade of al<br>() (excluding Chemie (C<br>s follows: First, applica<br>credits (qualitative ran<br>he applicants' position<br>cording to this third ra<br>ranking or otherwise b<br>1 (50% of places): tota | ie (Biology) with 180 ECTS cre-<br>ill be allocated to students of the<br>num of one participant in total)<br>credits and to students of the<br>h with 180 ECTS credits, as part<br>ing' subjects). Should the num-<br>s will be allocated to applicants<br>restricted number of places, the-<br>on all courses of a module com-<br>pplicants who already have suc-<br>ven preferential consideration. A<br>rocess group 1 (95%): Places will<br>purpose, applicants will be ran-<br>ll assessments taken during their<br>chemistry), Physik (Physics), Ma-<br>ints will be ranked, firstly, accor-<br>king) and, secondly, according<br>in a third ranking will be calcu-<br>nking. Among applicants with<br>y lot. Selection process group 2<br>al number of ECTS credits already |
| Bachelor's with 1 major C | Computati | ional Mathem | atics (2012) | among applicants with th   |  |  | . Quota 3 (25% of places): allo-  |
|                           |           |              |              | ces will be allocated acco   | ording to the selection process of group 1.  |  |   |

| 07-4A4FA-102-m01          | The Fa  | auna of G | ermany  |   |  |   |   |   |   |
|---------------------------|---|-----------|---------|---|--|---|---|---|---|
|                           | ECTS  | 7         | Duratio | n 1   | 1 semester   | Method of grading   | numerical grade   | Modul level   | undergraduate   |
|                           | Cours   | es        |         | • (   | 07-4A4FA-1-102: V +  | HÜ (no information o  | s. Information on courses will be<br>on SWS (weekly contact hours) a<br>WS (weekly contact hours) and   | and course lang   | uage available)   |
|                           | Method of assessment  |           |         | stated of Assess  | otherwise, success<br><b>ment in module co</b> r<br>4 ECTS, Method of g<br>written examinatior   | ful completion of th<br><b>mponent 07-4A4FA-</b><br>grading: numerical g<br>n (approx. 45 minute  | grade<br>es) and practical identification a   | l completion of a   | all individual assessments.<br>roduction to the Fauna of Germa-   |
|                           |   |           |         | • (<br>t<br>Assess<br>• t   | Other prerequisites<br>tion of the respective<br>beginning of the co<br><b>ment in module con</b><br>B ECTS, Method of g<br>log (approx. 1 to 2 p<br>Assessment offered  | ve exercises (particu<br>urse.<br><b>mponent 07-4A4FA-</b><br>grading: (not) succes<br>pages per field trip)<br>d: once a year, sumn  | uisite to assessment: regular att<br>ular emphasis to be placed on tl<br><b>2-102:</b> Field Excursions on the F<br>ssfully completed<br>ner semester   | he setting up a l<br>auna of German   | nerbarium) as specified at the  |
|                           | other   | prerequis | ites    | By way  | of exception, addit  | tional prerequisites  | are listed in the section on asse   | ssments.  |   |
| Bachelor's with 1 major C | other prerequisites<br>Participants and allo-<br>cation of places |           |         | follows<br>dits. Sh<br>Bachele<br>will be<br>Bachele<br>of the a<br>ber of p<br>from th<br>re will b<br>ponent<br>cessful<br>waiting<br>primari<br>ked acc<br>studies<br>themat<br>ding to<br>to their<br>lated as<br>the san<br>(5%): P<br>achieve | Places will primar<br>nould the module b<br>or's degree subject<br>allocated to studen<br>or's degree subject<br>application-oriented<br>blaces available in or<br>e other quota. Show<br>be a uniform regular<br>that are concerned<br>ly completed at lea<br>that are concerned<br>ly be allocated according to the numb<br>or of all module co<br>ik (Mathematics)) a<br>their average grade<br>total number of EC<br>s the sum of these the<br>ne ranking, places v<br>laces will be alloca<br>ed in modules/mod | ily be allocated to s<br>e used in other subj<br>Biologie (Biology) v<br>ots of the Bachelor's<br>s Computational Ma<br>d subject Biology (as<br>one quota exceed th<br>uld there be, within<br>tion for the courses<br>d will be allocated in<br>st one other module<br>ined and places re-a<br>ording to the applica-<br>ber of ECTS credits to<br>opponents in the su<br>at the time of applica-<br>e weighted accordin<br>TS credits achieved<br>two rankings, and p<br>will be allocated accord<br>ted according to the<br>lule components of<br>llocated by lot. Quot | tudents of the Bachelor's degree<br>tects, there will be two quotas: g<br>with 180 ECTS credits and 5% of<br>degree subject Biologie (Biolog<br>thematics and Mathematik (Ma<br>s well as potentially to students<br>the number of applications, the re-<br>one module component, severa<br>of one module component. In the<br>a standardised procedure. In the<br>e component of the respective m<br>illocated as they become availal<br>ants' previous academic achieved<br>hey have achieved and their avec<br>bject of Biologie (Biology) (exclu-<br>ation. This will be done as follow<br>g to the number of ECTS credits<br>(quantitative ranking). The applaces will be allocated according<br>cording to the qualitative ranking<br>following quotas: Quota 1 (50%)<br>the Faculty of Biology; among ap<br>ta 2 (25% of places): number of<br>MU Würzburg • generated 26-Aug-20 | e subject Biolog<br>5% of places wi<br>places (a minim<br>sy) with 60 ECTS<br>thematics), eac<br>of other 'import<br>emaining places<br>il courses with a<br>his case, places<br>his procedure, a<br>nodule will be gi<br>ble. Selection pr<br>ements. For this<br>erage grade of al<br>uding Chemie (C<br>vs: First, applica<br>(qualitative ran<br>licants' position<br>g to this third ra<br>g or otherwise b<br>6 of places): tota<br>pplicants with th<br><u>subject semeste</u> | ill be allocated to students of the<br>um of one participant in total)<br>credits and to students of the<br>h with 180 ECTS credits, as part<br>ing' subjects). Should the num-<br>will be allocated to applicants<br>restricted number of places, the-<br>on all courses of a module com-<br>pplicants who already have suc-<br>ven preferential consideration. A<br>rocess group 1 (95%): Places will<br>purpose, applicants will be ran-<br>l assessments taken during their<br>themistry), Physik (Physics), Ma-<br>nts will be ranked, firstly, accor-<br>king) and, secondly, according<br>in a third ranking will be calcu-<br>nking. Among applicants with<br>y lot. Selection process group 2<br>al number of ECTS credits already<br>he same number of ECTS credits<br>ers of the respective applicant;<br>cord 82 f24 -  H 2012 page 17 / 43 |
|                           |   |           |         |   |  |   | in the Bachelor's degree subject  |   |   |
|                           |   |           |         | ces will  | be allocated accor   | rding to the selectio   | n process of group 1.   |   |   |

| 07-4S1N-    | Neurobiology 1 |                                 |          |  |   |  |  |   |   |  |  |  |  |
|-------------|----------------|---------------------------------|----------|--|---|--|--|---|---|--|--|--|--|
| V01-102-m01 | ECTS           | 5                               | Duratio  | า  | 1 semester  | Method of grading  | numerical grade  | Modul level   | undergraduate   |  |  |  |  |
|             | Course         | Courses<br>Method of assessment |          |  | P (no information on SWS (weekly contact hours) and course language available)  |  |  |   |   |  |  |  |  |
|             | Metho          |                                 |          |  | nethods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course   |  |  |   |   |  |  |  |  |
|             | other p        | orerequi                        | sites    | Admis  | ssion prerequisite to   | assessment: regula   | r attendance of lab course as s  | pecified at the b   | beginning of the course.  |  |  |  |  |
|             | Partici        | pants an<br>of place            | nd allo- | Numb<br>follow<br>dits. S<br>Bache<br>will be<br>of the<br>ber of<br>from t<br>re will<br>poner<br>cessfu<br>waitir<br>prima<br>ked a<br>studie<br>thema<br>ding t<br>to the<br>lated<br>the sa<br>(5%):<br>achiev<br>achiev<br>amon<br>catior | ber of places: 20. Sh<br>ys: Places will prima<br>Should the module be<br>elor's degree subject<br>e allocated to stude<br>elor's degree subject<br>application-oriente<br>places available in<br>the other quota. Sho<br>l be a uniform regula<br>nt that are concerned<br>ully completed at lea<br>ng list will be mainta<br>irily be allocated acc<br>ccording to the num<br>es or of all module c<br>atik (Mathematics))<br>to their average grad<br>ir total number of EC<br>as the sum of these<br>ame ranking, places<br>Places will be allocated<br>ved in modules/mod<br>ved, places will be allocated<br>ved in modules/mod | ould the number of a<br>rily be allocated to st<br>be used in other subject<br>the biologie (Biology) we<br>not sof the Bachelor's<br>ts Computational Ma<br>d subject Biology (as<br>one quota exceed the<br>build there be, within the<br>ation for the courses<br>d will be allocated in<br>ast one other module<br>ined and places re-al<br>cording to the applicat<br>ber of ECTS credits the<br>omponents in the sub-<br>at the time of applicat<br>two rankings, and pl<br>will be allocated according<br>to the allocated according to the<br>dule components of the<br>dule components of the<br>fullocated by lot. Quot<br>e same number of sub- | pplications exceed the number<br>sudents of the Bachelor's degre<br>ects, there will be two quotas: g<br>with 180 ECTS credits and 5% of<br>degree subject Biologie (Biologie<br>thematics and Mathematik (Ma<br>well as potentially to students<br>e number of applications, the re-<br>one module component, several<br>of one module component, several<br>of one module component. In the<br>a standardised procedure. In the<br>component of the respective ne<br>llocated as they become availa<br>ants' previous academic achieven<br>by have achieved and their avec<br>bject of Biologie (Biology) (excl<br>ation. This will be done as follow<br>g to the number of ECTS credits<br>(quantitative ranking). The app<br>aces will be allocated accordin<br>ording to the qualitative rankin<br>following quotas: Quota 1 (50%<br>the Faculty of Biology; among a<br>a 2 (25% of places): number of<br>bject semesters, places will be<br>in the Bachelor's degree subje | of available pla<br>e subject Biolog<br>places (a minin<br>gy) with 60 ECTS<br>ithematics), eac<br>of other 'impor<br>emaining places<br>it courses with a<br>nis case, places<br>nis procedure, a<br>nodule will be g<br>ble. Selection p<br>ements. For this<br>erage grade of a<br>uding Chemie ((<br>vs: First, applica<br>(qualitative rar<br>licants' position<br>g to this third ra<br>g or otherwise b<br>6 of places): tot<br>pplicants with t<br>subject semest | aces, places will be allocated as<br>gie (Biology) with 180 ECTS cre-<br>vill be allocated to students of the<br>num of one participant in total)<br>5 credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>on all courses of a module com-<br>applicants who already have suc-<br>iven preferential consideration. A<br>rocess group 1 (95%): Places will<br>be purpose, applicants will be ran-<br>ll assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>nking) and, secondly, according<br>n in a third ranking will be calcu- |  |  |  |  |

| 07-4S1N-    | Integrative Behavioral Biology |                      |          |  |  |  |  |  |  |  |  |  |
|-------------|--------------------------------|----------------------|----------|--|--|--|--|--|--|--|--|--|
| V02-102-m01 | ECTS                           | 5                    | Duration | า  | 1 semester   | Method of grading numerical grade  | Modul level  | undergraduate  |  |  |  |  |
|             | Course                         | S                    |          | V + S (no information on SWS (weekly contact hours) and course language available)   |  |  |  |  |  |  |  |  |
|             | Method                         | 1 of ass             |          | natior<br>per ca   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course  |  |  |  |  |  |  |  |
|             | other p                        | orerequi             |          |  | ssion prerequisite to<br>ecified at the beginr   | o assessment: regular attendance of exercise ning of the course.   | es and successful comp   | letion of the respective exercises   |  |  |  |  |
|             |                                | pants ar<br>of place | 25       | follow<br>dits. S<br>Bache<br>will be<br>Bache<br>of the<br>ber of<br>from t<br>re will<br>poner<br>cessft<br>waitin<br>prima<br>ked ac<br>studie<br>thema<br>ding t<br>to the<br>lated<br>the sa<br>(5%):<br>achiev<br>amon<br>catior | vs: Places will prima<br>Should the module be<br>elor's degree subject<br>e allocated to stude<br>elor's degree subject<br>application-oriente<br>f places available in<br>the other quota. Sho<br>l be a uniform regula<br>nt that are concerne-<br>ully completed at lead<br>and that are concerne-<br>ully completed at lead<br>arily be allocated acco<br>ccording to the num<br>es or of all module c<br>atik (Mathematics))<br>to their average grad<br>eir total number of Ed<br>as the sum of these<br>ame ranking, places<br>Places will be allocated<br>ved in modules/mod<br>ved, places will be allocated<br>and plicants with the<br>n by lot. Should the sum | hould the number of applications exceed the<br>arily be allocated to students of the Bachelor<br>be used in other subjects, there will be two q<br>ct Biologie (Biology) with 180 ECTS credits an<br>ents of the Bachelor's degree subject Biologie<br>cts Computational Mathematics and Mathem<br>ed subject Biology (as well as potentially to s<br>n one quota exceed the number of application<br>ould there be, within one module component<br>lation for the courses of one module component<br>ed will be allocated in a standardised procedu-<br>east one other module component of the resp<br>ained and places re-allocated as they becom<br>components in the subject of Biologie (Biologie<br>at the time of application. This will be done<br>de weighted according to the number of ECTS<br>CTS credits achieved (quantitative ranking).<br>e two rankings, and places will be allocated a<br>swill be allocated according to the qualitative<br>cated according to the following quotas: Quot<br>podule components of the Faculty of Biology; a<br>allocated by lot. Quota 2 (25% of places): num-<br>he same number of subject semesters, places<br>module be used only in the Bachelor's degre<br>ording to the selection process of group 1. | r's degree subject Biolog<br>quotas: 95% of places w<br>ad 5% of places (a minim<br>e (Biology) with 60 ECTS<br>hatik (Mathematics), eac<br>students of other 'import<br>ns, the remaining places<br>at, several courses with a<br>hent. In this case, places<br>lure. In this procedure, a<br>bective module will be gin<br>e available. Selection pro-<br>c achievements. For this<br>their average grade of a<br>gy) (excluding Chemie (C<br>as follows: First, applican<br>S credits (qualitative ran<br>The applicants' position<br>according to this third ra<br>re ranking or otherwise b<br>ta 1 (50% of places): tota<br>among applicants with the<br>imber of subject semesters<br>swill be allocated by lot | gie (Biology) with 180 ECTS cre-<br>iill be allocated to students of the<br>hum of one participant in total)<br>5 credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>on all courses of a module com-<br>upplicants who already have suc-<br>iven preferential consideration. A<br>rocess group 1 (95%): Places will<br>be purpose, applicants will be ran-<br>ll assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>oking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>al number of ECTS credits already<br>he same number of ECTS credits<br>ers of the respective applicant;<br>t. Quota 3 (25% of places): allo- |  |  |  |  |

| 07-4S1M-   | Basics in Light- and Electron-Microscopy |                     |          |   |  |  |  |  |   |  |  |  |
|------------|--|---------------------|----------|---|--|--|--|--|---|--|--|--|
| Z1-102-m01 | ECTS                                     | 5                   | Duration | า   | 1 semester   | Method of grading num  | erical grade   | Modul level  | undergraduate   |  |  |  |
|            | Course                                   | S                   |          | V + Ü   | (no information on   | SWS (weekly contact hours  | s) and course language av  | ailable)   |   |  |  |  |
|            | Method                                   | d of ass            | essment  | writte  | ritten examination (approx. 30 to 60 minutes)  |  |  |  |   |  |  |  |
|            | other p                                  | other prerequisites |          |   | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.   |  |  |  |   |  |  |  |
|            |  | oants ar            | S        | follow<br>dits. S<br>Bache<br>will be<br>Bache<br>of the<br>ber of<br>from t<br>re will<br>poner<br>cessfu<br>waitir<br>prima<br>ked a<br>studie<br>thema<br>ding t<br>to the<br>lated<br>the sa<br>(5%):<br>achie<br>sache | vs: Places will prim<br>Should the module<br>elor's degree subje<br>e allocated to stud-<br>elor's degree subje<br>e application-orient<br>f places available in<br>the other quota. Sh<br>l be a uniform regu<br>nt that are concern-<br>ully completed at le<br>ng list will be maint<br>arily be allocated ac<br>coording to the nur<br>es or of all module<br>atik (Mathematics))<br>to their average gra<br>eir total number of f<br>as the sum of thes<br>ame ranking, place<br>Places will be alloc<br>ved in modules/mo<br>ved, places will be<br>ng applicants with t<br>n by lot. Should the | arily be allocated to studen<br>be used in other subjects,<br>at Biologie (Biology) with 18<br>ents of the Bachelor's degre<br>tes Computational Mathem<br>red subject Biology (as well<br>n one quota exceed the nun<br>ould there be, within one m<br>lation for the courses of one<br>ed will be allocated in a sta<br>east one other module comp<br>tained and places re-allocat<br>coording to the applicants' p<br>mber of ECTS credits they ha<br>components in the subject<br>) at the time of application.<br>Ide weighted according to the<br>ECTS credits achieved (quar<br>e two rankings, and places<br>s will be allocated according<br>cated according to the follow<br>odule components of the Fa<br>allocated by lot. Quota 2 (2<br>he same number of subject | ts of the Bachelor's degre<br>there will be two quotas: 9<br>30 ECTS credits and 5% of<br>ee subject Biologie (Biolog<br>atics and Mathematik (Ma<br>as potentially to students<br>nber of applications, the r<br>nodule component, severa<br>e module component. In t<br>ndardised procedure. In th<br>ponent of the respective n<br>ted as they become availa<br>previous academic achiev<br>ave achieved and their ave<br>of Biologie (Biology) (excl<br>This will be done as follow<br>he number of ECTS credits<br>ntitative ranking). The app<br>will be allocated accordin<br>g to the qualitative rankin<br>wing quotas: Quota 1 (50%<br>aculty of Biology; among a<br>25% of places): number of<br>semesters, places will be<br>e Bachelor's degree subje | es subject Biolog<br>95% of places w<br>places (a minim<br>gy) with 60 ECTS<br>athematics), eac<br>of other 'import<br>remaining places<br>al courses with a<br>his case, places<br>his procedure, a<br>nodule will be gi<br>ble. Selection p<br>rements. For this<br>erage grade of a<br>luding Chemie ((<br>ws: First, applica<br>s (qualitative ran<br>olicants' position<br>ag to this third ran<br>g or otherwise b<br>% of places): tota<br>subject semest<br>e allocated by log | aces, places will be allocated as<br>gie (Biology) with 180 ECTS cre-<br>vill be allocated to students of the<br>num of one participant in total)<br>5 credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>s on all courses of a module com-<br>applicants who already have suc-<br>iven preferential consideration. A<br>rocess group 1 (95%): Places will<br>s purpose, applicants will be ran-<br>tll assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>nking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>cal number of ECTS credits already<br>he same number of ECTS credits, pla- |  |  |  |

| 07-4S1M-   | Analysis of Chromosomes |                     |          |  |   |   |   |  |  |  |  |  |  |
|------------|-------------------------|---------------------|----------|--|---|---|---|--|--|--|--|--|--|
| Z2-102-m01 | ECTS                    | 5                   | Duratior | ۱  | 1 semester  | Method of grading nume  | rical grade   | Modul level  | undergraduate  |  |  |  |  |
|            | Course                  | !S                  |          | V + Ü  | (no information or  | n SWS (weekly contact hours)  | and course language a   | vailable)  |  |  |  |  |  |
|            | Metho                   | d of ass            | essment  | writte   | vritten examination (approx. 30 to 60 minutes)  |   |   |  |  |  |  |  |  |
|            | other p                 | other prerequisites |          |  | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.  |   |   |  |  |  |  |  |  |
|            |                         | pants ar            |          | follow<br>dits. S<br>Bache<br>will be<br>Bache<br>of the<br>ber of<br>from t<br>re will<br>poner<br>cessft<br>waitin<br>prima<br>ked ac<br>studie<br>thema<br>ding t<br>to the<br>lated<br>the sa<br>(5%):<br>achiev<br>amon<br>catior | vs: Places will prim<br>Should the module<br>elor's degree subje<br>e allocated to stuc-<br>elor's degree subje<br>application-orien<br>f places available is<br>the other quota. Si<br>l be a uniform regu-<br>nt that are concerr-<br>ully completed at I<br>ng list will be main<br>arily be allocated a<br>ccording to the nu<br>es or of all module<br>atik (Mathematics)<br>to their average gra-<br>eir total number of<br>as the sum of thes<br>ame ranking, place<br>Places will be allo<br>ved in modules/m<br>ved, places will be<br>applicants with<br>n by lot. Should the | harily be allocated to students<br>be be used in other subjects, the<br>ect Biologie (Biology) with 180<br>dents of the Bachelor's degree<br>ects Computational Mathemat<br>ted subject Biology (as well as<br>in one quota exceed the numb<br>hould there be, within one mo-<br>ulation for the courses of one<br>hed will be allocated in a stand<br>least one other module compo-<br>tained and places re-allocated<br>according to the applicants' pr<br>mber of ECTS credits they hav<br>e components in the subject of<br>)) at the time of application. The<br>ade weighted according to the<br>ECTS credits achieved (quant<br>se two rankings, and places w<br>es will be allocated according<br>boated according to the follow<br>hodule components of the Fac-<br>e allocated by lot. Quota 2 (25)<br>the same number of subject s | s of the Bachelor's degra<br>here will be two quotas:<br>b ECTS credits and 5% o<br>e subject Biologie (Biolo<br>tics and Mathematik (M<br>s potentially to student<br>ber of applications, the<br>bodule component, sever<br>module component, sever | ee subject Biolog<br>95% of places w<br>f places (a minin<br>ogy) with 60 ECTS<br>lathematics), eac<br>s of other 'import<br>remaining places<br>al courses with a<br>this case, places<br>this procedure, a<br>module will be g<br>able. Selection p<br>vements. For this<br>verage grade of a<br>cluding Chemie ((<br>ows: First, application<br>s (qualitative ran<br>plicants' position<br>ng to this third ran<br>g or otherwise b<br>% of places): tot<br>applicants with t<br>f subject semest<br>e allocated by lo | ices, places will be allocated as<br>gie (Biology) with 180 ECTS cre-<br>ill be allocated to students of the<br>num of one participant in total)<br>5 credits and to students of the<br>th with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>on all courses of a module com-<br>pplicants who already have suc-<br>iven preferential consideration. A<br>rocess group 1 (95%): Places will<br>be purpose, applicants will be ran-<br>ll assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>iking) and, secondly, according<br>n in a third ranking will be calcu-<br>inking. Among applicants with<br>by lot. Selection process group 2<br>al number of ECTS credits already<br>he same number of ECTS credits<br>ers of the respective applicant;<br>t. Quota 3 (25% of places): allo-<br>logy) with 180 ECTS credits, pla- |  |  |  |  |

| 07-4S1M-   | Special Bioinformatics 1      |            |  |   |  |  |  |  |  |  |  |  |
|------------|-------------------------------|------------|--|---|--|--|--|--|--|--|--|--|
| Z6-102-m01 | ECTS 5                        | Duratio    | n  | 1 semester  | Method of grading numerical grade  | Modul level  | undergraduate  |  |  |  |  |  |
|            | Courses                       |            | V + Ü  | (no information o   | on SWS (weekly contact hours) and course lan   | iguage available)  |  |  |  |  |  |  |
|            | Method of a                   | issessment | U V V  | approx. 10 to 20 pa<br>uage of assessmen  | ages)<br>nt: German or English   |  |  |  |  |  |  |  |
|            | other prerec                  | quisites   |  | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.  |  |  |  |  |  |  |  |  |
|            | Participants<br>cation of pla |            | follov<br>dits.<br>Bach<br>will b<br>Bach<br>of the<br>ber o<br>from<br>re wil<br>pone<br>cessf<br>waiti<br>prima<br>ked a<br>studi<br>them<br>ding<br>to the<br>lated<br>the s<br>(5%):<br>achie<br>amor<br>catio | ws: Places will prin<br>Should the module<br>elor's degree subje<br>e allocated to stude<br>elor's degree subje<br>e application-orien<br>f places available<br>the other quota. S<br>Il be a uniform regent that are concern<br>fully completed at<br>ng list will be main<br>arily be allocated at<br>according to the nu<br>es or of all module<br>latik (Mathematics<br>to their average gr<br>eir total number of<br>as the sum of the<br>ame ranking, place<br>wed, places will be<br>allocates with<br>n by lot. Should th | Should the number of applications exceed the marily be allocated to students of the Bachelo le be used in other subjects, there will be two lect Biologie (Biology) with 180 ECTS credits a dents of the Bachelor's degree subject Biolog jects Computational Mathematics and Mathemated subject Biology (as well as potentially to in one quota exceed the number of applicatios found there be, within one module component will be allocated in a standardised proceed least one other module component of the rest natined and places re-allocated as they becomponents in the subject of Biologie (Biologie) at the time of application. This will be done rade weighted according to the number of ECTS feedits achieved (quantitative ranking) are two rankings, and places will be allocated according to the qualitation for the following quotas: Quo nodule components of the Faculty of Biology; e allocated by lot. Quota 2 (25% of places): no the same number of subject semesters, place the module be used only in the Bachelor's degree with the selection process of group 1. | or's degree subject Biolo<br>quotas: 95% of places w<br>and 5% of places (a mining<br>gie (Biology) with 60 ECT<br>matik (Mathematics), ea<br>students of other 'impor-<br>ons, the remaining place<br>nt, several courses with<br>nent. In this case, places<br>dure. In this procedure, a<br>spective module will be g<br>me available. Selection p<br>ic achievements. For this<br>d their average grade of a<br>ogy) (excluding Chemie (<br>e as follows: First, applic<br>TS credits (qualitative rate<br>according to this third ra-<br>ve ranking or otherwise<br>ota 1 (50% of places): to<br>among applicants with the<br>umber of subject semesi<br>es will be allocated by lo | gie (Biology) with 180 ECTS cre-<br>vill be allocated to students of the<br>num of one participant in total)<br>S credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>s on all courses of a module com-<br>applicants who already have suc-<br>given preferential consideration. A<br>process group 1 (95%): Places will<br>s purpose, applicants will be ran-<br>all assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>nking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>tal number of ECTS credits already<br>the same number of ECTS credits<br>ters of the respective applicant;<br>ot. Quota 3 (25% of places): allo- |  |  |  |  |  |

| 07-4S1PS1-102- | Molecu   | lar modelling -             | From D  | om DNA to protein   |   |   |   |  |  |  |
|----------------|----------|-----------------------------|---|---|---|---|---|--|--|--|
| m01            | ECTS     | 5 Duratio                   | on  | 1 semester  | Method of grading   | numerical grade   | Modul level   | undergraduate  |  |  |
|                | Courses  | 5                           | V + Ü   | (no information of  | on SWS (weekly contact  | hours) and course language av   | ailable)  |  |  |  |
|                | Method   | of assessment               |   |   | l examination (approx.  | ,   |   |  |  |  |
|                | other pr | rerequisites                | Admi<br>as sp   | Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.  |   |   |   |  |  |  |
|                |          | ants and allo-<br>of places | follov<br>dits.:<br>Bach<br>will b<br>Bach<br>of the<br>ber o<br>from<br>re wil<br>pone<br>cessf<br>waitin<br>prima<br>ked a<br>studi<br>them<br>ding t<br>to the<br>lated<br>the sa<br>(5%):<br>achie<br>achie<br>amor<br>cation | ws: Places will pri<br>Should the modu<br>elor's degree sub<br>e allocated to stu<br>elor's degree sub<br>e application-orie<br>f places available<br>the other quota. S<br>Il be a uniform reg<br>nt that are concer<br>fully completed at<br>ng list will be mai<br>arily be allocated<br>according to the n<br>es or of all modul<br>atik (Mathematic<br>to their average g<br>eir total number of<br>as the sum of the<br>ame ranking, place<br>eved in modules/r<br>eved, places will be<br>ng applicants with<br>n by lot. Should the | marily be allocated to si<br>le be used in other subj<br>ject Biologie (Biology) w<br>idents of the Bachelor's<br>jects Computational Ma<br>nted subject Biology (as<br>in one quota exceed th<br>Should there be, within<br>gulation for the courses<br>rned will be allocated in<br>cleast one other module<br>ntained and places re-a<br>according to the applica<br>umber of ECTS credits th<br>e components in the su<br>s)) at the time of applica<br>rade weighted accordin<br>f ECTS credits achieved<br>ese two rankings, and p<br>ces will be allocated according<br>to the and places of<br>ocated according to the<br>module components of<br>the same number of su | tudents of the Bachelor's degree<br>tects, there will be two quotas: g<br>with 180 ECTS credits and 5% of<br>degree subject Biologie (Biolog<br>thematics and Mathematik (Ma<br>s well as potentially to students<br>the number of applications, the re-<br>one module component, severa<br>of one module component. In the<br>a standardised procedure. In the<br>component of the respective m<br>illocated as they become availal<br>ants' previous academic achieved<br>hey have achieved and their avec<br>bject of Biologie (Biology) (exclu-<br>ation. This will be done as follow<br>g to the number of ECTS credits<br>(quantitative ranking). The app<br>laces will be allocated according<br>to the faculty of Biology; among ap<br>ca 2 (25% of places): number of<br>ubject semesters, places will be<br>rin the Bachelor's degree subject | e subject Biolog<br>95% of places w<br>places (a minin<br>gy) with 60 ECTS<br>of other 'import<br>emaining places<br>of other 'import<br>endule will be g<br>ble. Selection p<br>ements. For this<br>erage grade of a<br>uding Chemie ((<br>vs: First, applica<br>(qualitative ran<br>g to this third ran<br>g or otherwise b<br>6 of places): tot<br>pplicants with t<br>subject semest<br>allocated by loo | will be allocated to students of the<br>num of one participant in total)<br>credits and to students of the<br>th with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>on all courses of a module com-<br>upplicants who already have suc-<br>iven preferential consideration. A<br>rocess group 1 (95%): Places will<br>purpose, applicants will be ran-<br>ll assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>oking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>al number of ECTS credits already<br>he same number of ECTS credits |  |  |

| 07-4S1PS2-102- | Introduction to Method                     | s in Plant Ecophysiolog   | in Plant Ecophysiology  |   |   |  |  |  |  |  |
|----------------|--|---|---|---|---|--|--|--|--|--|
| m01            | ECTS 5 Duratio                             | n 1 semester  | Method of grading   | numerical grade   | Modul level   | undergraduate  |  |  |  |  |
|                | Courses                                    | Ü + S (no information on SWS (weekly contact hours) and course language available)  |   |   |   |  |  |  |  |  |
|                | Method of assessment                       | log (approx. 10 to 20 p   | ages)   |   |   |  |  |  |  |  |
|                | other prerequisites                        |   | e to assessment: regula<br>s specified at the begin   |   | eminar as well  | as successful completion of the  |  |  |  |  |
|                | Participants and allo-<br>cation of places | Number of places: 15.<br>follows: Places will prind<br>dits. Should the modu<br>Bachelor's degree sub<br>will be allocated to stu<br>Bachelor's degree sub<br>of the application-orient<br>ber of places available<br>from the other quota. S<br>re will be a uniform reg<br>ponent that are concer<br>cessfully completed at<br>waiting list will be mai<br>primarily be allocated<br>ked according to the mistudies or of all modul<br>thematik (Mathematics<br>ding to their average g<br>to their total number o<br>lated as the sum of the<br>the same ranking, place<br>(5%): Places will be all<br>achieved in modules/r<br>achieved, places will b<br>among applicants with | Should the number of a<br>marily be allocated to si<br>e be used in other subj<br>ect Biologie (Biology) w<br>dents of the Bachelor's<br>fects Computational Ma<br>nted subject Biology (as<br>in one quota exceed the<br>should there be, within<br>ulation for the courses<br>ned will be allocated in<br>least one other module<br>ntained and places re-a<br>according to the applicate<br>according to the applicate<br>add weighted according<br>f ECTS credits achieved<br>set wo rankings, and p<br>es will be allocated according<br>f ECTS credits achieved<br>set wo rankings, and p<br>es will be allocated according to the<br>nodule components of<br>e allocated by lot. Quot<br>the same number of super<br>the module be used only | pplications exceed the number<br>pplications exceed the number<br>tudents of the Bachelor's degree<br>ects, there will be two quotas: of<br>vith 180 ECTS credits and 5% of<br>degree subject Biologie (Biologie<br>thematics and Mathematik (Ma<br>s well as potentially to students<br>e number of applications, the re-<br>one module component, several<br>of one module component. In the<br>a standardised procedure. In the<br>e component of the respective m<br>llocated as they become availal<br>ants' previous academic achieve<br>hey have achieved and their ave<br>bject of Biologie (Biology) (exclu-<br>ation. This will be done as follow<br>g to the number of ECTS credits<br>(quantitative ranking). The app<br>laces will be allocated according<br>ording to the qualitative ranking<br>following quotas: Quota 1 (50%<br>the Faculty of Biology; among an<br>a 2 (25% of places): number of<br>ubject semesters, places will be<br>in the Bachelor's degree subject | e subject Biolog<br>places (a minin<br>gy) with 60 ECTS<br>of other 'impor<br>emaining place<br>of other 'impor<br>emaining place<br>and courses with a<br>nis case, places<br>nodule will be g<br>ble. Selection p<br>ements. For this<br>erage grade of a<br>uding Chemie (<br>vs: First, applica<br>(qualitative rar<br>licants' position<br>g to this third ra<br>g or otherwise b<br>6 of places): tot<br>pplicants with t<br>subject semest | A solution of a second provide the second provide t |  |  |  |  |

| 07-4S1PS3-102- | Pharm   | Pharmaceutical Drugs in Plants |  |  |  |   |  |  |  |  |  |  |  |  |
|----------------|---------|--------------------------------|--|--|--|---|--|--|--|--|--|--|--|--|
| m01            | ECTS    | 5                              | Duration   |  | 1 semester   | Method of grading   | numerical grade  | Modul level  | undergraduate  |  |  |  |  |  |
|                | Course  | !S                             | Ü  | J + S (no information on SWS (weekly contact hours) and course language available)   |  |   |  |  |  |  |  |  |  |  |
|                | Metho   | Method of assessment           |  |  | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course  |   |  |  |  |  |  |  |  |  |
|                | other p | orerequi                       | re   | espec  | ctive exercises as s   | specified at the begin  | ning of the course.  |  | as successful completion of the  |  |  |  |  |  |
|                |         | pants ar<br>of place           | es fc<br>di<br>B<br>w<br>B<br>of<br>b<br>fr<br>re<br>p<br>c<br>c<br>w<br>w<br>p<br>k<br>c<br>t<br>t<br>t<br>c<br>c<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>a<br>c<br>a<br>c<br>a<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>a<br>c<br>c<br>a<br>c<br>c<br>a<br>c<br>c<br>a<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c | ollows<br>lits. S<br>Bache<br>vill be<br>Bache<br>of the<br>oer of<br>rom the<br>e will<br>oonen<br>cessfu<br>vaiting<br>orimar<br>ced ac<br>studie<br>hema<br>ling to<br>o thei<br>ated a<br>he sa<br>5%): F<br>achiev<br>achiev<br>ation<br>gation | s: Places will prim<br>should the module<br>elor's degree subje<br>e allocated to stud<br>elor's degree subje<br>application-orient<br>places available in<br>he other quota. Sh<br>be a uniform regu<br>at that are concernally completed at le<br>g list will be maint<br>rily be allocated at<br>coording to the nume<br>so ro f all module<br>atik (Mathematics))<br>o their average gra<br>ir total number of l<br>as the sum of thes<br>me ranking, place<br>Places will be allow<br>yed in modules/me<br>yed, places will be<br>g applicants with t | arily be allocated to s<br>be used in other subject Biologie (Biology) v<br>lents of the Bachelor's<br>ects Computational Mated subject Biology (as<br>n one quota exceed the<br>nould there be, within<br>illation for the courses<br>red will be allocated in<br>east one other module<br>tained and places re-according to the application<br>mber of ECTS credits to<br>components in the sub-<br>ade weighted according<br>ECTS credits achieved<br>se two rankings, and p<br>res will be allocated according to the<br>odule components of<br>allocated by lot. Quot<br>the same number of su | tudents of the Bachelor's de-<br>jects, there will be two quota<br>with 180 ECTS credits and 5%<br>degree subject Biologie (Bio<br>athematics and Mathematik (<br>s well as potentially to stude<br>the number of applications, the<br>one module component, sev-<br>of one module component. In<br>a standardised procedure. I<br>e component of the respectival<br>allocated as they become ava-<br>ants' previous academic ach<br>hey have achieved and their<br>ubject of Biologie (Biology) (e<br>ation. This will be done as fo-<br>og to the number of ECTS crea-<br>cording to the qualitative ran<br>e following quotas: Quota 1 (e<br>the Faculty of Biology; amon<br>ta 2 (25% of places): number<br>ubject semesters, places will<br>y in the Bachelor's degree su | gree subject Biolog<br>as: 95% of places w<br>of places (a minin<br>ology) with 60 ECTS<br>(Mathematics), each<br>ents of other 'impor<br>ne remaining place<br>veral courses with a<br>In this case, places<br>In this procedure, a<br>ve module will be g<br>ailable. Selection p<br>ievements. For this<br>average grade of a<br>excluding Chemie (<br>ollows: First, application<br>dits (qualitative rar<br>applicants' position<br>dits (not this third ra<br>king or otherwise b<br>50% of places): tot<br>g applicants with t<br>r of subject semest<br>l be allocated by lo | ces, places will be allocated as<br>gie (Biology) with 180 ECTS cre-<br>vill be allocated to students of the<br>num of one participant in total)<br>S credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>es will be allocated to applicants<br>a restricted number of places, the-<br>s on all courses of a module com-<br>applicants who already have suc-<br>given preferential consideration. A<br>process group 1 (95%): Places will<br>s purpose, applicants will be ran-<br>all assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>nking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>tal number of ECTS credits already<br>the same number of ECTS credits<br>ters of the respective applicant;<br>bt. Quota 3 (25% of places): allo-<br>logy) with 180 ECTS credits, pla- |  |  |  |  |  |

| 07-S1-LP1-102-m01 | Laborat                     | tory pra | ctical cou | irse l  | ,   |                   |                     |                   |                  | _                                  |  |  |
|-------------------|-----------------------------|----------|------------|---|---|-------------------|---------------------|-------------------|------------------|------------------------------------|--|--|
| · .               |                             | 5        | Duration   |   | 1 semester  | Method of grad    | ling numerical grad | е                 | Modul level      | undergraduate                      |  |  |
|                   | Courses                     | S        |            | P (no   | P (no information on SWS (weekly contact hours) and course language available)  |                   |                     |                   |                  |                                    |  |  |
|                   | Method of assessment        |          |            | natio<br>per ca   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |                   |                     |                   |                  |                                    |  |  |
|                   | other p                     | rerequis | sites      |   | Admission prerequisite to assessment: regular attendance of lab course as specified at the beginning of the course; please consult with academic advisory service in advance.   |                   |                     |                   |                  |                                    |  |  |
| 07-S1-Ex1-102-m01 | Excursi                     | on I     |            |   |   |                   |                     |                   |                  |                                    |  |  |
|                   | ECTS                        | 5        | Duration   | า   | 1 semester  | Method of grad    | ling numerical grad | е                 | Modul level      | undergraduate                      |  |  |
|                   | Courses                     | S        |            | E (no   | information on SW   | S (weekly contact | hours) and course l | anguage availa    | ble)             |                                    |  |  |
|                   | Method of assessment        |          |            | natio<br>per ca   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |                   |                     |                   |                  |                                    |  |  |
|                   | other prerequisites         |          |            |   | ssion prerequisite<br>vith academic advis   |                   |                     | field trip as spe | cified at the be | ginning of the course; please con- |  |  |
| 07-S1-IP1-102-m01 | Interdisciplinary Project I |          |            |   |   |                   |                     |                   |                  |                                    |  |  |
|                   | ECTS                        | 5        | Duration   | า   | 1 semester  | Method of grad    | ling numerical grad | e                 | Modul level      | undergraduate                      |  |  |
|                   | Courses                     | S        |            | R (no   | R (no information on SWS (weekly contact hours) and course language available)  |                   |                     |                   |                  |                                    |  |  |
|                   | Method of assessment        |          |            | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |   |                   |                     |                   |                  |                                    |  |  |
|                   | other prerequisites         |          |            | Admission prerequisite to assessment: regular attendance of project sessions as specified at the beginning of the course; please consult with academic advisory service in advance.   |   |                   |                     |                   |                  |                                    |  |  |
| 07-5EP-102-m01    | Externa                     | l Practi | cal Cours  | e   |   |                   |                     |                   |                  |                                    |  |  |
|                   | ECTS                        | 10       | Duration   | า   | 1 semester  | Method of grad    | ling numerical grad | e                 | Modul level      | undergraduate                      |  |  |
|                   | Courses                     | S        |            | P (no   | information on SW   | S (weekly contac  | hours) and course l | anguage availa    | ble)             |                                    |  |  |
|                   |                             |          |            | natio<br>per ca   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |                   |                     |                   |                  |                                    |  |  |
|                   | other p                     | rerequis | sites      |   | ssion prerequisite<br>ult with academic a   |                   |                     | lab course as s   | pecified at the  | beginning of the course; please    |  |  |

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|--|---|--------------|

| 07-S2-EX2-102- | Excurs              | ion II                         |            |   |   |   |                   |                                    |  |  |  |  |
|----------------|---------------------|--------------------------------|------------|---|---|---|-------------------|------------------------------------|--|--|--|--|
| mo1            | ECTS                | 10                             | Duratio    | n   | 1 semester  | Method of grading numerical grade   | Modul level       | undergraduate                      |  |  |  |  |
|                | Course              | Courses                        |            |   | E (no information on SWS (weekly contact hours) and course language available)  |   |                   |                                    |  |  |  |  |
|                | Methoo              | d of ass                       | essment    | natio<br>per ca   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |   |                   |                                    |  |  |  |  |
|                | other p             | other prerequisites            |            |   |   | assessment: regular attendance of field trip as spe<br>ory service in advance.  | ecified at the be | ginning of the course; please con- |  |  |  |  |
| 07-S2-IP2-102- | Interdi             | sciplina                       | ary Projec | t II  |   |   |                   |                                    |  |  |  |  |
| m01            | ECTS                | 10                             | Duratio    | n   | 1 semester  | Method of grading numerical grade   | Modul level       | undergraduate                      |  |  |  |  |
|                | Courses             |                                |            | R (no   | information on SWS  | (weekly contact hours) and course language availa                               | ıble)             |                                    |  |  |  |  |
|                | Methoo              |                                |            |   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |   |                   |                                    |  |  |  |  |
|                | other prerequisites |                                |            | Admission prerequisite to assessment: regular attendance of project sessions as specified at the beginning of the course; please consult with academic advisory service in advance. |   |   |                   |                                    |  |  |  |  |
| 07-S2-LP2-102- | Labora              | Laboratory Practical Course II |            |   |   |   |                   |                                    |  |  |  |  |
| m01            | ECTS                | 10                             | Duratio    | n   | 1 semester  | Method of grading numerical grade   | Modul level       | undergraduate                      |  |  |  |  |
|                | Course              | S                              |            | P (no   | P (no information on SWS (weekly contact hours) and course language available)  |   |                   |                                    |  |  |  |  |
|                | Methoo              |                                |            |   | methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-<br>nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes<br>per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the<br>assessment prior to the course |   |                   |                                    |  |  |  |  |
|                | other p             | orerequi                       | sites      |   |   | assessment: regular attendance of lab course as s<br>visory service in advance. | pecified at the b | beginning of the course; please    |  |  |  |  |

| 07-SQF-0SB-102-    | Organisation and Safety in Biosciences |               |  |  |   |   |   |  |  |  |  |  |  |
|--------------------|--|---------------|--|--|---|---|---|--|--|--|--|--|--|
| m01                | ECTS 5                                 | 5 Duratio     | n 1 semest   | er Method of g   | rading numerical grade  | · 1   | Modul level   | undergraduate  |  |  |  |  |  |
|                    | Courses                                |               | V + S (no inform   | ation on SWS (weekly c   | ontact hours) and cours   | e language avai   | lable)  |  |  |  |  |  |  |
|                    | Method of                              | of assessment | a) written examination (30 to 60 minutes) and b) presentation (approx. 10 minutes) or term paper (approx. 5 to 10 pages)   |  |   |   |   |  |  |  |  |  |  |
|                    | cation of                              |               | follows: Places<br>dits. Should the<br>Bachelor's degr<br>will be allocate<br>Bachelor's degr<br>of the applicati<br>ber of places av<br>from the other of<br>re will be a unif<br>ponent that are<br>cessfully compl<br>waiting list will<br>primarily be allo<br>ked according t<br>studies or of all<br>thematik (Math<br>ding to their av<br>to their total nu<br>lated as the sur<br>the same rankin<br>(5%): Places wi<br>achieved in mo<br>achieved, place<br>among applican<br>cation by lot. Sl | will primarily be allocate<br>module be used in oth<br>ee subject Biologie (Bio<br>l to students of the Bac<br>ee subjects Computatio<br>on-oriented subject Biol<br>ailable in one quota exe<br>uota. Should there be,<br>orm regulation for the co<br>concerned will be alloca-<br>ted at least one other re-<br>be maintained and plac<br>cated according to the<br>or the number of ECTS cr<br>module components in<br>ematics)) at the time of<br>trage grade weighted ac<br>mber of ECTS credits ac<br>n of these two rankings,<br>g, places will be allocated<br>ulles/module compone<br>s will be allocated by lo<br>ts with the same numb<br>ould the module be use | ed to students of the Bac<br>er subjects, there will be<br>ology) with 180 ECTS cred<br>helor's degree subject B<br>onal Mathematics and Ma<br>ogy (as well as potential<br>ceed the number of appl<br>within one module compourses of one module compourses<br>ated in a standardised p<br>module component of th<br>res re-allocated as they b<br>applicants' previous aca<br>redits they have achieved<br>the subject of Biologie (<br>application. This will be<br>coording to the number of<br>hieved (quantitative rank<br>, and places will be alloc<br>ted according to the qua<br>g to the following quotas<br>ents of the Faculty of Biol<br>t. Quota 2 (25% of place<br>er of subject semesters, | chelor's degree s<br>two quotas: 95<br>dits and 5% of pl<br>iologie (Biology)<br>athematik (Math<br>lly to students of<br>ications, the rem<br>ponent, several of<br>mponent. In this<br>procedure. In this<br>procedure. In this<br>procedure. In this<br>procedure availabl<br>ademic achieven<br>d and their avera<br>(Biology) (exclude<br>done as follows<br>of ECTS credits (of<br>king). The applic<br>cated according<br>illitative ranking<br>cated according<br>s: Quota 1 (50%<br>logy; among app<br>es): number of su<br>places will be a<br>s degree subject | subject Biolog<br>% of places w<br>laces (a minin<br>) with 60 ECTS<br>nematics), each<br>f other 'impor<br>naining place<br>courses with<br>s case, places<br>s procedure, a<br>odule will be g<br>e. Selection p<br>nents. For this<br>age grade of a<br>ding Chemie (<br>s: First, applic<br>qualitative ran<br>cants' positio<br>to this third ra<br>or otherwise l<br>of places): to<br>plicants with t<br>ubject semest | aces, places will be allocated as<br>gie (Biology) with 180 ECTS cre-<br>vill be allocated to students of the<br>num of one participant in total)<br>S credits and to students of the<br>ch with 180 ECTS credits, as part<br>ting' subjects). Should the num-<br>s will be allocated to applicants<br>a restricted number of places, the-<br>s on all courses of a module com-<br>applicants who already have suc-<br>given preferential consideration. A<br>process group 1 (95%): Places will<br>s purpose, applicants will be ran-<br>all assessments taken during their<br>Chemistry), Physik (Physics), Ma-<br>ants will be ranked, firstly, accor-<br>nking) and, secondly, according<br>n in a third ranking will be calcu-<br>anking. Among applicants with<br>by lot. Selection process group 2<br>tal number of ECTS credits already<br>the same number of ECTS credits<br>ters of the respective applicant;<br>ot. Quota 3 (25% of places): allo-<br>logy) with 180 ECTS credits, pla- |  |  |  |  |  |
| Application-orient | •                                      | •             | mpulsory Course  | (26 FCTS credits)  |   | _   | _   |  |  |  |  |  |  |
| 11-EFNF-072-m01    |  |               |  | Ipulsory Courses (26 ECTS credits)<br>for Students of Non-physics-related Minor Subjects   |   |   |   |  |  |  |  |  |  |
|                    | ECTS 7                                 |               |  |  | rading numerical grade  |   | Modul level   | undergraduate  |  |  |  |  |  |
|                    | Courses                                |               |  | -  | contact hours) and course   |   |   |  |  |  |  |  |  |
|                    |  | of assessment | <u>`</u>   | tion (approx. 120 minut  |   |   |   |  |  |  |  |  |  |

| method of ussessment written examination (upprox. 120 minutes)   |                             |
|--|-----------------------------|
| Participants and allo-<br>cation of places Only as part of pool of general key skills (ASQ): 10 places. Places | s will be allocated by lot. |

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|--|---|--------------|
|  |   |              |

| 08-PC1-092-m01     | Physic               | al Chen             | nistry 1   |        | -   |                                      |                   |             |                |  |  |  |  |
|--------------------|----------------------|---------------------|------------|--------|---|--------------------------------------|-------------------|-------------|----------------|--|--|--|--|
|                    | ECTS                 | 8                   | Duration   | า      | 1 semester  | Method of grading numerical grading  | ade               | Modul level | undergraduate  |  |  |  |  |
|                    | Course               | 25                  |            | V + Ü  | / + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)  |                                      |                   |             |                |  |  |  |  |
|                    | Metho                | d of ass            | essment    | writte | a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3<br>written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examina<br>tion in groups (groups of 2, approx. 30 minutes)                |                                      |                   |             |                |  |  |  |  |
|                    | other p              | orerequi            | sites      | ning   | dmission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin-<br>ing of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually<br>maximum of 2 incidents of unexcused absence).                |                                      |                   |             |                |  |  |  |  |
| 08-CM1-112-m01     | Introd               | uction t            | o Inorgani | c Chei | mistry for Student  | s of Mathematics and other Subjects  | 5                 |             |                |  |  |  |  |
|                    | ECTS                 | 6                   | Duration   | า      | 1 semester  | Method of grading numerical gra      | ade               | Modul level | undergraduate  |  |  |  |  |
|                    | Course               | 25                  |            | V (no  | information on SV   | VS (weekly contact hours) and course | e language availa | ible)       |                |  |  |  |  |
|                    | Metho                | d of ass            | essment    | writte | written examination (approx. 90 minutes)  |                                      |                   |             |                |  |  |  |  |
| 08-0C1-092-m01     | Organi               | ic Chem             | istry 1    |        |   |                                      |                   |             |                |  |  |  |  |
|                    | ECTS                 | 5                   | Duration   | า      | 1 semester  | Method of grading numerical grading  | ade               | Modul level | undergraduate  |  |  |  |  |
|                    | Course               | 25                  |            | V + Ü  | (no information or  | n SWS (weekly contact hours) and co  | ourse language av | /ailable)   |                |  |  |  |  |
|                    | Method of assessment |                     |            | writte | a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examina-<br>tion in groups (groups of 2, approx. 30 minutes)                  |                                      |                   |             |                |  |  |  |  |
|                    | other p              | other prerequisites |            |        | Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin-<br>ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually<br>a maximum of 2 incidents of unexcused absence).            |                                      |                   |             |                |  |  |  |  |
|                    | Referre              | ed to in            | LPO I      | § 62   | § 62 (1) 2. Chemie "Organische und Bioorganische Chemie"  |                                      |                   |             |                |  |  |  |  |
| Application-orient | ed Subje             | ct Cher             | nisty Com  | pulso  | y Electives   |                                      |                   |             |                |  |  |  |  |
| 08-TC-092-m01      | Theore               | tical M             | odels in C | hemis  | try   |                                      |                   |             |                |  |  |  |  |
|                    | ECTS                 | 3                   | Duration   | า      | 1 semester  | Method of grading numerical gra      | ade               | Modul level | undergraduate  |  |  |  |  |
|                    | Course               | s                   |            | V + Ü  | (no information or  | n SWS (weekly contact hours) and co  | ourse language av | /ailable)   | - <del>.</del> |  |  |  |  |
|                    | Metho                | d of ass            | essment    | each;  | a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes<br>each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or<br>c) oral examination in groups (groups of 2, approx. 30 minutes) |                                      |                   |             |                |  |  |  |  |
|                    | other prerequisites  |                     |            | ning   | Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin-<br>ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually<br>a maximum of 2 incidents of unexcused absence).            |                                      |                   |             |                |  |  |  |  |

| 08-PC3-092-m01      | Physic                         | Physical and Theoretical Chemistry 3: Symmetry and Quantum Chemistry |           |  |  |                               |                         |                      |  |  |  |  |
|---------------------|--------------------------------|--|-----------|--|--|-------------------------------|-------------------------|----------------------|--|--|--|--|
|                     | ECTS                           | 6  | Duratio   | า  | 1 semester   | Method of grading num         | erical grade            | Modul level          | undergraduate  |  |  |  |
|                     | Course                         | :S   |           | V + Ü  | + V + Ü (no inforn   | nation on SWS (weekly contac  | ct hours) and course la | anguage available)   |  |  |  |  |
|                     | Metho                          | d of ass   | essment   | exam   | inations: 60 minu  |                               |                         |                      | o or 90 minutes each; 3 written<br>inutes) or c) oral examination in |  |  |  |
|                     | other p                        | orerequi   | sites     | ning   | Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin-<br>ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually<br>a maximum of 2 incidents of unexcused absence).   |                               |                         |                      |  |  |  |  |
| 08-0C2-102-m01      | Organi                         | c Chem   | istry 2   |  |  |                               |                         |                      |  |  |  |  |
|                     | ECTS                           | 9  | Duratio   | า  | 1 semester   | Method of grading num         | erical grade            | Modul level          | undergraduate  |  |  |  |
|                     | Course                         | s  |           | V + V  | + Ü (no informatio   | on on SWS (weekly contact ho  | ours) and course langu  | uage available)      |  |  |  |  |
|                     |                                |  |           | each;<br>c) ora  | a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes<br>each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or<br>c) oral examination in groups (groups of 2, approx. 30 minutes)<br>Language of assessment: German, English                                       |                               |                         |                      |  |  |  |  |
|                     | Modules successfully completed |  |           | 08-00  | 21   |                               |                         |                      |  |  |  |  |
|                     | other prerequisites            |  |           | Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin-<br>ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually<br>a maximum of 2 incidents of unexcused absence). |  |                               |                         |                      |  |  |  |  |
| Application-oriente | ed Subject Computer Science    |  |           |  |  |                               |                         |                      |  |  |  |  |
| 10-I-AGT-122-m01    | Algorit                        | hmic G   | raph Theo | ry   |  |                               |                         |                      |  |  |  |  |
|                     | ECTS                           | 5  | Duratio   | า  | 1 semester   | Method of grading num         | erical grade            | Modul level          | undergraduate  |  |  |  |
|                     | Courses                        |  |           | V + Ü  | (no information o  | n SWS (weekly contact hours   | ) and course language   | e available)         | •  |  |  |  |
|                     | Metho                          | d of ass   | essment   | writte<br>didat  | written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)<br>Language of assessment: English, German if agreed upon with the examiner |                               |                         |                      |  |  |  |  |
|                     | other p                        | orerequi   | sites     | Wher   | e applicable, prer   | equisites as specified by the | lecturer at the beginni | ing of the course (e | e.g. completion of exercises).                                       |  |  |  |

| 10-I-ADS-102-m01 | Algorit                         | hm and    | data stru | ctures   |   |   |  |                     |                                |  |  |  |
|------------------|---------------------------------|-----------|-----------|--|---|---|--|---------------------|--------------------------------|--|--|--|
|                  | ECTS                            | 10        | Duratio   | n  | 1 semester  | Method of grading                               | numerical grade                                      | Modul level         | undergraduate                  |  |  |  |
|                  | Course                          | s         |           | V + Ü  | (no information on  | SWS (weekly contact                             | hours) and course langua                             | ge available)       | •                              |  |  |  |
|                  | Method of assessment            |           |           | written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. |   |   |  |                     |                                |  |  |  |
|                  | other p                         | rerequis  | sites     | Admi<br>cours  |   | o assessment: exercis                           | ses (type and scope to be                            | announced by the le | cturer at the beginning of the |  |  |  |
|                  | Referred to in LPO I            |           |           |  |   |   | k, Algorithmen und Daten<br>k, Algorithmen und Daten |                     |                                |  |  |  |
| 10-I-ST-102-m01  | Softwa                          | re Techi  | nology    |  |   |   |  |                     |                                |  |  |  |
|                  | ECTS                            | 10        | Duratio   | n  | 1 semester  | Method of grading                               | numerical grade                                      | Modul level         | undergraduate                  |  |  |  |
|                  | Course                          | s         |           | V + Ü  | (no information on  | SWS (weekly contact                             | hours) and course langua                             | ge available)       |                                |  |  |  |
|                  | Method of assessment            |           |           | writte<br>90 mi<br>(appr   | written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to<br>90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute<br>(approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.<br>Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the |   |  |                     |                                |  |  |  |
|                  |                                 | ·         |           | sourse).<br>§ 49 (1) 1. b) Datenbanksysteme und Softwaretechnologie  |   |   |  |                     |                                |  |  |  |
|                  | Referred to in LPO I            |           |           | § 69 (1) 1. b) Datenbanksysteme und Softwaretechnologie  |   |   |  |                     |                                |  |  |  |
| 10-I-PP-102-m01  | Practical Course in Programming |           |           |  |   |   |  |                     |                                |  |  |  |
|                  | ECTS                            | 10        | Duratio   |  | 1 semester  |   | (not) successfully comple                            |                     | undergraduate                  |  |  |  |
|                  | Course                          | -         | _         | P (no information on SWS (weekly contact hours) and course language available)   |   |   |  |                     |                                |  |  |  |
|                  | Method of assessment            |           |           | written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. |   |   |  |                     |                                |  |  |  |
|                  |                                 | rerequis  |           | cours  | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).  |   |  |                     |                                |  |  |  |
|                  | Additio                         | nal Info  | rmation   | Addit  | ional information o   | n module duration: 1 t                          | o 2 semesters.                                       |                     |                                |  |  |  |
|                  | Referre                         | d to in L | PO I      |  |   | Praktische Softwareent<br>Praktische Softwareen |  |                     |                                |  |  |  |

| 10-I-SWP-102-m01 | Practic              | al cours  | e in softv | vare   |  |  |   |   |                                |  |  |  |  |
|------------------|----------------------|-----------|------------|--|--|--|---|---|--------------------------------|--|--|--|--|
|                  | ECTS                 | 10        | Duration   | 1  | 1 semester   | Method of grading  | (not) successfully completed  | Modul level   | undergraduate                  |  |  |  |  |
|                  | Course               | s         |            | P (no  | P (no information on SWS (weekly contact hours) and course language available)   |  |   |   |                                |  |  |  |  |
|                  | Method               | d of ass  | essment    | comp   | completion of project assignments, presentation  |  |   |   |                                |  |  |  |  |
|                  | Referre              | d to in L | PO I       | § 49 (<br>§ 69 (   | § 49 (1) 1. c) Informatik Praktische Softwareentwicklung<br>§ 69 (1) 1. d) Informatik Praktische Softwareentwicklung   |  |   |   |                                |  |  |  |  |
| 10-I-RAL-102-m01 | Digital              | comput    | er systen  | 15   |  |  |   |   |                                |  |  |  |  |
|                  | ECTS                 | 10        | Duration   | 1  | 1 semester   | Method of grading  | numerical grade   | Modul level   | undergraduate                  |  |  |  |  |
|                  | Course               | S         |            | V + Ü  | (no information on   | SWS (weekly contact  | hours) and course language a  | vailable)   |                                |  |  |  |  |
|                  |                      |           |            | writte<br>90 mi<br>(appr   | n examination can l<br>nute written examir<br>ox.) oral examinatio   | be replaced by an ora<br>nation is equivalent to<br>n in groups of 2 and | il examination of one candidat<br>o a 20 minute (approx.) oral ex<br>a 40 minute (approx.) oral exa | e each or an ora<br>amination of on<br>mination in grou | _                              |  |  |  |  |
| 10-l-lÜ-102-m01  | other prerequisites  |           |            | cours  | e).  |  | ses (type and scope to be anno  | ounced by the le  | cturer at the beginning of the |  |  |  |  |
|                  |                      |           | -          |  | 1) 1. c) Informatik Te   | echnische Informatik   |   |   |                                |  |  |  |  |
|                  |                      |           | ansmissio  |  |  |  | r   |   |                                |  |  |  |  |
|                  | ECTS 10 Duration     |           |            |  | 1 semester   | Method of grading  | =   | Modul level   | undergraduate                  |  |  |  |  |
|                  | Courses              |           |            |  |  | . ,  | hours) and course language a  | ,   |                                |  |  |  |  |
|                  | Method of assessment |           |            | written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. |  |  |   |   |                                |  |  |  |  |
|                  | other prerequisites  |           |            | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).   |  |  |   |   |                                |  |  |  |  |
|                  | Referre              | d to in L | POI        | §69(   | § 69 (1) 1. c) Informatik Technische Informatik  |  |   |   |                                |  |  |  |  |
| 10-l-Tl-102-m01  | Theore               | tical inf | ormatics   |  |  |  |   | ,   |                                |  |  |  |  |
|                  | ECTS                 | 10        | Duration   | 1  | 1 semester   | Method of grading  | numerical grade   | Modul level   | undergraduate                  |  |  |  |  |
|                  | Course               | S         |            | V + Ü  | (no information on   | SWS (weekly contact  | hours) and course language a  | vailable)   |                                |  |  |  |  |
|                  | Method               | d of asso | essment    | writte<br>90 mi  | written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. |  |   |   |                                |  |  |  |  |
|                  | other p              |           |            | cours  | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).   |  |   |   |                                |  |  |  |  |
|                  | Referre              | d to in L | PO I       | § 49 (<br>§ 69 (   | 1) 1. a) Informatik Tl<br>1) 1. a) Informatik Tl   | neoretische Informati<br>heoretische Informati                           | k, Algorithmen und Datenstrul<br>k, Algorithmen und Datenstrul                                      | kturen<br>kturen  |                                |  |  |  |  |

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| 10-I-LOG-102-m01 | Logic fo                    | or inform | matics   |  |  |  |                                  |                             |                  |   |  |  |
|------------------|-----------------------------|-----------|--|--|--|--|----------------------------------|-----------------------------|------------------|---|--|--|
|                  | ECTS                        | 6         | Duration                                       | ۱  | 1 semester   | Method of gradir                         | g numerical grade                |                             | Modul level      | undergraduate   |  |  |
|                  | Course                      | S         |  | V + Ü (no information on SWS (weekly contact hours) and course language available)   |  |  |                                  |                             |                  |   |  |  |
|                  | Methoo                      | d of ass  | essment  | written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)   |  |  |                                  |                             |                  |   |  |  |
|                  | other p                     | rerequi   | sites  |  | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).   |  |                                  |                             |                  |   |  |  |
| 10-I-DB-102-m01  | Databa                      | ses       |  |  |  |  |                                  |                             |                  |   |  |  |
|                  | ECTS                        | 5         | Duration                                       | า  | 1 semester   | Method of gradir                         | ng numerical grade               |                             | Modul level      | undergraduate   |  |  |
|                  | Course                      | S         |  | V + Ü  | (no information or   | SWS (weekly conta                        | ct hours) and course             | e language av               | /ailable)        |   |  |  |
|                  |                             |           | essment  | if ann<br>exam<br>tes, g<br>Langu  | written examination (approx. 50 to 60 minutes)<br>if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral<br>examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minu-<br>tes, groups of 3: 25 minutes)<br>Language of assessment: German, English if agreed upon with the examiner |  |                                  |                             |                  |   |  |  |
|                  | other p                     | rerequi   | sites  | cours  | e).  |  |                                  | pe to be anno               | ounced by the le | cturer at the beginning of the  |  |  |
|                  | Referre                     | d to in l | PO I   | § 49 (<br>§ 69 (   | 1) 1. b) Datenbank<br>1) 1. b) Datenbank   | systeme und Softwa<br>systeme und Softwa | aretechnologie<br>aretechnologie |                             |                  |   |  |  |
| 10-I-00P-102-m01 | Object-oriented Programming |           |  |  |  |  |                                  |                             |                  |   |  |  |
|                  | ECTS 5 Duration             |           | n 1 semester Method of grading numerical grade |  | Modul level  | undergraduate                            |                                  |                             |                  |   |  |  |
|                  | Course                      | S         |  | V + Ü (no information on SWS (weekly contact hours) and course language available)   |  |  |                                  |                             |                  |   |  |  |
|                  | Method                      | d of ass  | essment  | written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)<br>Language of assessment: German, English if agreed upon with the examiner |  |  |                                  |                             |                  |   |  |  |
|                  | other p                     | rerequi   | sites  | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).   |  |  |                                  |                             |                  |   |  |  |
| 10-I-KT-102-m01  | Theory                      | of Com    | plexity  |  |  |  |                                  |                             |                  |   |  |  |
|                  | ECTS                        | 5         | Duration                                       | า  | 1 semester   | Method of gradir                         | ng numerical grade               |                             | Modul level      | undergraduate   |  |  |
|                  | Course                      | S         |  | V + Ü  | (no information or   | SWS (weekly conta                        | ct hours) and course             | e language av               | /ailable)        |   |  |  |
|                  | Method                      | d of ass  | essment  | writte<br>didate   | n examination car<br>e each: 15 minutes  | be replaced by an , groups of 2: 20 mi   |                                  | one candidate<br>5 minutes) |                  | prior to the examination date, the<br>l examination in groups (one can- |  |  |
|                  | other p                     | rerequi   | sites  | Admis<br>cours   |  | to assessment: exe                       | rcises (type and scor            | pe to be anno               | ounced by the le | cturer at the beginning of the  |  |  |

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| 10-I-AR-102-m01     | Automation an                      | d Contro       | Techn  | ology   |  |                               |  |  |  |  |  |
|---------------------|------------------------------------|----------------|--|---|--|-------------------------------|--|--|--|--|--|
|                     | ECTS 8                             | Duratio        | 1  | 1 semester  | Method of grading  | numerical grade               | Modul level  | undergraduate  |  |  |  |
|                     | Courses                            |                | V + Ü  | (no information on S  | SWS (weekly contact  | hours) and course language    | available)   |  |  |  |  |
|                     | Method of asso                     | essment        | writte<br>90 mi<br>(appre  | written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the<br>written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to<br>90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute<br>(approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.<br>Language of assessment: German, English if agreed upon with the examiner |  |                               |  |  |  |  |  |
|                     | other prerequi                     |                | Admis<br>cours   |   | assessment: exercis  | ses (type and scope to be an  | nounced by the le  | cturer at the beginning of the   |  |  |  |
| 10-I-RAK-102-m01    | Computer Arch                      | itecture       |  |   |  |                               |  |  |  |  |  |
|                     | ECTS 5                             | Duratio        |  | 1 semester  | Method of grading  |                               | Modul level  | undergraduate  |  |  |  |
|                     | Courses                            |                | V + Ü  | (no information on S  | SWS (weekly contact  | hours) and course language    | available)   |  |  |  |  |
|                     | Method of asso                     |                | writte<br>didate<br>Langu  | rritten examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the<br>rritten examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can-<br>idate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)<br>anguage of assessment: German, English if agreed upon with the examiner  |  |                               |  |  |  |  |  |
|                     | other prerequis                    | sites          | cours  | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).  |  |                               |  |  |  |  |  |
|                     | Referred to in L                   | PO I           | §69 (  | 1) 1. c) Informatik Te  | chnische Informatik  |                               |  |  |  |  |  |
| 10-I-RK-102-m01     |                                    | vorks and      | Communication Systems  |   |  |                               |  |  |  |  |  |
|                     | ECTS 8                             | Duratio        |  | 1 semester  | Method of grading  |                               | Modul level  | undergraduate  |  |  |  |
|                     | Courses                            |                |  | -   |  | hours) and course language    | -  |  |  |  |  |
|                     | Method of asso                     | essment        | writte<br>90 mi<br>(appre  | n examination can b<br>nute written examin<br>ox.) oral examinatior   | e replaced by an ora<br>ation is equivalent to<br>n in groups of 2 and a | l examination of one candid   | ate each or an ora<br>examination of on<br>amination in grou | prior to the examination date, the<br>l examination in groups. A 80 to<br>e candidate each, a 30 minute<br>ups of 3. |  |  |  |
|                     | other prerequi                     | sites          | Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course). |   |  |                               |  |  |  |  |  |
| Application-oriente | ed Subject Phys                    | ics            |  |   |  |                               |  |  |  |  |  |
| Application-oriente | ed Subject Phys                    | ics Comp       | ulsory   | Electives 1: Basics   |  |                               |  |  |  |  |  |
| 11-ENNF1-062-m01    | Introduction to                    | <b>Physics</b> | Part 1   | for students of Phys  | ics Related Minor Su   | ıbjects                       |  |  |  |  |  |
|                     | ECTS 7                             | Duratio        | n  | 1 semester  | Method of grading  | numerical grade               | Modul level  | undergraduate  |  |  |  |
|                     | Courses                            |                |  | -   |  | hours) and course language    | available)   |  |  |  |  |
|                     | Method of ass                      | essment        |  | n examination (appr   |  |                               |  |  |  |  |  |
|                     | Participants ar<br>cation of place |                | Only a   | as part of pool of ger  | neral key skills (ASQ)   | : 20 places. Places will be a | located by lot.  |  |  |  |  |

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| 11-ENNF2-062-m01   | Introdu   | ction to            | <b>Physics</b>          | Part 2   | for students of  | Phys   | sics Related Minor   | Subjects  |  |   |   |  |
|--------------------|---|---------------------|-------------------------|--|--|--|--|---|--|---|---|--|
|                    | ECTS  | 7                   | Duration                | ۱  | 1 semester   |  | Method of gradin   | g numerical grad  | de   | Modul level   | undergraduate   |  |
|                    | Courses   | 5                   | •                       | V + Ü  | (no information  | n on S   | SWS (weekly conta  | ct hours) and cou   | rse language av  | ailable)  |   |  |
|                    | Method  | l of ass            | essment                 | writte   | en examination (   | (app   | rox. 120 minutes)  |   |  |   |   |  |
|                    | Particip<br>cation o  |                     |                         | Only a   | as part of pool c  | of gei   | neral key skills (AS   | Q): 20 places. Pla  | ices will be alloc   | cated by lot.   |   |  |
| 11-KP-092-m01      | Classical Physics (Mechanics, Thermodynamics, Waves, Oscillations, Electricity, Magnetism and Optics) |                     |                         |  |  |  |  |   |  |   |   |  |
|                    | ECTS  | 16                  | Duration                | า  | 2 semester   |  | Method of gradin   | g numerical grad  | de   | Modul level   | undergraduate   |  |
|                    | Courses   | 5                   |                         | (2 we<br>Klass   | ekly contact ho<br>ische Physik 2 (  | urs),<br>(Elek                                   | once a year (winte   | r semester)<br>ptik) (Classical Pl  |  |   | nt)): V (4 weekly contact hours) + Ü<br>otics)): V (4 weekly contact hours) |  |
|                    | Method  | essment             | 1. Top<br>120<br>2. Top | pics covered in l<br>p minutes).                       | lectu  |  | n part 1 (Klassisch  | ,   |  | )): written examination (approx.<br>2)): written examination (approx.                       |   |  |
|                    |   |                     |                         | 3. Top   | pics covered in l  |  | res and exercises i<br>ten examination (a  |   |  | of one candida  | te each (approx. 30 minutes,  |  |
|                    |   |                     |                         |  |  |  | 3 will be offered in<br>approx. 50% of pr  |   |  |   | ).<br>to assessment components 1 and  |  |
|                    |   |                     |                         | highly<br>sics 2<br>Stude<br>To pa<br>The g<br>will ea | y recommended<br>). The topics dis<br>ents must regist<br>ss this module,<br>rade achieved in<br>ach count 50% | l to a<br>scus<br>er fo<br>stuc<br>n ass<br>towa | Ittend both courses<br>sed in these two co<br>r assessment comp<br>dents must first pas<br>sessment compone<br>Irds the overall grad | Klassische Physi<br>ourses will be cove<br>ponents 1 through<br>s assessment co<br>ont 1 or 2 (whichev<br>de awarded for th | ik 1 (Classical Ph<br>ered in assessm<br>1 3 online (detail<br>mponent 1 or 2 a<br>ver is better) and<br>e module. | nysics 1) and Ki<br>nent component<br>ls to be announ<br>and must then p<br>d the grade ach | ced).<br>bass assessment component 3.<br>ieved in assessment component 3    |  |
|                    | other p   | rerequi             | sites                   | Bridg  | e course Mathe   | mati   | sche Rechenmetho   | den der Physik (N   | Aathematical Me  | ethods of Physi   | cs) for first-semester students.  |  |
| hen Nebenfachs (Pl | wo modu<br>hysics Pr  | ules 11-<br>actical | P-PA Phys<br>Course fo  | ikalisc<br>r Stud                                      | hes Praktikum <sup>-</sup><br>ents of Physics-   | Teil A<br>-relat                                 | A (Physics Practical<br>ted Minors) must b   | e taken; students   | -PNNF Physikali<br>are not permitt   | sches Praktikur<br>ed to take both  | n für Studierende eines physikna-<br>of these modules.                      |  |
| 11-PNNF-062-m01    | <u> </u>  |                     |                         |  | · · · · · · · · · · · · · · · · · · ·  | ysics  | s Related Minor Su   | <u>·</u>  |  |   |   |  |
|                    |   | 3                   | Duration                |  | 1 semester   |  | Method of gradin   |   | , ,  |   | undergraduate   |  |
|                    | Courses   |                     |                         |  |  |  | (weekly contact h  |   |  | -   |   |  |
|                    |   |                     |                         |  |  | -  | inutes) during expe  |   | -  |   | prox. 90 minutes)   |  |
|                    | Particip<br>cation o  |                     |                         | Only a   | as part of pool c  | of gei   | neral key skills (AS   | Q): 15 places. Pla  | ces will be alloc  | ated by lot.  |   |  |

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| 11-P-PA-112-m01  | Lab Course A         |                  |          |   |  |                     |                           |        |             |               |  |  |  |
|------------------|----------------------|------------------|----------|---|--|---------------------|---------------------------|--------|-------------|---------------|--|--|--|
|                  | ECTS                 | 5                | Duration | ı 🦷   | 1 semester   | Method of grading   | (not) successfully comple | eted   | Modul level | undergraduate |  |  |  |
|                  | Course               | S                |          | conta<br>Beispi   | Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (winter semester)<br>Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours)   |                     |                           |        |             |               |  |  |  |
|                  | Methoo               | d of asse        |          | 1. Top<br>2. Lab<br>(exa<br>(ap)  | <ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises: written examination (approx. 120 minutes)</li> <li>2. Lab course: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes).</li> </ul>  |                     |                           |        |             |               |  |  |  |
|                  |                      |                  |          |   | Successful completion of approx. 50% of practice work is a prerequisite for admission to assessment component 1.<br>To pass assessment component 2, students must pass both elements a) and b). Students will be offered one opportunity to<br>retake element a) and/or element b).<br>Students must register for assessment components 1 and 2 online (details to be announced).<br>Students must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) before attending<br>Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity).<br>To pass this module, students must pass both assessment component 1 and assessment component 2. |                     |                           |        |             |               |  |  |  |
|                  | Referred to in LPO I |                  |          | § 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie<br>§ 53 (1) 1. c) Physik physikalische Grundpraktika<br>§ 77 (1) 1. a) Physik "Grundlagen der Experimentalphysik"<br>§ 77 (1) 1. d) Physik "physikalische Praktika"   |  |                     |                           |        |             |               |  |  |  |
| 11-P-NFB-122-m01 |                      |                  |          |   |  |                     |                           |        |             |               |  |  |  |
|                  | ECTS                 | 4                | Duration | 1 I   | 1 semester   | Method of grading   | (not) successfully comple | eted   | Modul level | undergraduate |  |  |  |
|                  | Course               | S                |          | P (no i   | information on SWS   | (weekly contact hou | rs) and course language a | vailab | le)         |               |  |  |  |
|                  | Method               | d of asse        |          | a) Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (ex-<br>am) is passed. Experiments that were not successfully completed can be repeated once. And b) talk (with discussion; approx.<br>30 minutes) to test the candidate's understanding of the physics-related contents of the module component. Talks that were<br>not successfully completed can be repeated once. Both components of the assessment have to be successfully completed. |  |                     |                           |        |             |               |  |  |  |
|                  | Module<br>comple     | es succe<br>eted | essfully | 11-P-PA   |  |                     |                           |        |             |               |  |  |  |
|                  | Additio              | nalinfa          | rmation  | Additional information on module duration: 1 to 2 semesters.  |  |                     |                           |        |             |               |  |  |  |

- 11-KM may neither be combined with 11-QAM nor with 11-FKP.
 - 11-STE may neither be combined with 11-ST nor with 11-ED.

| - 11-TQM may neith | neither be combined with 11-TM nor with 11-QM. |           |           |   |  |   |   |   |  |  |  |
|--------------------|--|-----------|-----------|---|--|---|---|---|--|--|--|
| 11-KM-092-m01      | Conden   | sed Ma    | tter (Qua | nta, At   | oms, Molecules, So   | lid State Physics)  |   |   |  |  |  |
|                    | ECTS   | 16        | Duration  | n   | 2 semester   | Method of grading   | numerical grade   | Modul level   | undergraduate  |  |  |
|                    | Courses  |           |           | hours<br>Konde  | ) + Ü (2 weekly cont<br>ensierte Materie 2 (F  | act hours), once a ye   | ar (winter semester)<br>Condensed Matter 2 (Solid Sta   |   | olecules)): V (4 weekly contact<br>weekly contact hours) + Ü (2  |  |  |
|                    | Method   | l of asse | essment   | This n<br>1. Top<br>pro<br>2. Top<br>pro<br>3. Top<br>usu<br>Asses<br>Succe<br>2.<br>To qua<br>highly<br>dense<br>Stude<br>To pa:<br>The gi | nodule has the follo<br>ics covered in lectu<br>x. 120 minutes).<br>ics covered in lectu<br>x. 120 minutes).<br>ics covered in lectu<br>ally chosen) or writ<br>sment component<br>ssful completion of<br>alify for admission t<br>recommended to a<br>ed Matter 2). The top<br>nts must register fo<br>ss this module, stuc-<br>rade achieved in as | wing assessment cor<br>res and exercises in p<br>res and exercises in p<br>res and exercises in p<br>ten examination (app<br>will be offered in Ge<br>approx. 50% of pract<br>to assessment compo<br>tatend both courses K<br>bics discussed in thes<br>r assessment compo<br>dents must first pass<br>sessment component | mponents<br>part 1 (Kondensierte Materie 1<br>part 2 (Kondensierte Materie 2<br>parts 1 and 2: oral examination<br>prox. 120 minutes).<br>erman; English if agreed upon y<br>tice work each is a prerequisite<br>ondensierte Materie 1 (Conden<br>se two courses will be covered<br>nents 1 through 3 online (deta<br>assessment component 1 or 2 | e (Condensed Ma<br>n of one candidat<br>with examiner(s)<br>e for admission t<br>ssessment comp<br>nsed Matter 1) ar<br>l in assessment c<br>ils to be annound<br>and must then p | o assessment components 1 and<br>onent 1 and/or 2. Students are<br>nd Kondensierte Materie 2 (Con-<br>component 3. |  |  |

| 11-STE-092-m01 | Statist | ical Me  | chanics, T  | hermodynamics and Ele   | ectrodynamics  |   |                                   |  |  |  |  |
|----------------|---------|----------|---|---|--|---|-----------------------------------|--|--|--|--|
|                | ECTS    | 16       | Duration  | 2 semester  | Method of grading numerical grade  | Modul level   | undergraduate                     |  |  |  |  |
|                | Course  | !S       |   | Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics): V (4 weekly contact hours) + Ü (2<br>weekly contact hours), once a year (winter semester)<br>Theoretische Elektrodynamik (Theoretical Electrodynamics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a<br>year (summer semester)   |  |   |                                   |  |  |  |  |
|                | Metho   | d of ass |   | <ol> <li>Topics covered in lea<br/>Thermodynamics)): v</li> <li>Topics covered in lea<br/>amination (approx. 1)</li> <li>Topics covered in lease</li> </ol>   | llowing assessment components<br>ctures and exercises in part 1 (Statistische Mechar<br>written examination (approx. 120 minutes).<br>ctures and exercises in part 2 (Theoretische Elektr<br>.20 minutes).<br>ctures and exercises in parts 1 and 2: oral examina<br>ritten examination (approx. 120 minutes). | odynamik (Theoretic   | al Electrodynamics)): written ex- |  |  |  |  |
|                |         |          | Successful completion<br>2.<br>Students are highly red<br>and Thermodynamics)<br>courses will be covered<br>Students must register<br>To pass this module, s<br>The grade achieved in | at 3 will be offered in German; English if agreed up<br>of approx. 50% of practice work each is a prerequ<br>commended to attend both courses Statistische <i>N</i><br>and Theoretische Elektrodynamik (Theoretical Ele<br>d in assessment component 3.<br>for assessment components 1 through 3 online (of<br>tudents must first pass assessment component 1<br>assessment component 1 or 2 (whichever is bette<br>wards the overall grade awarded for the module. | uisite for admission t<br>Mechanik und Thermo<br>ectrodynamics). The t<br>details to be annound<br>or 2 and must then p  | o assessment components 1 and<br>odynamik (Statistical Mechanics<br>opics discussed in these two<br>ced).<br>bass assessment component 3. |                                   |  |  |  |  |
|                | other p | rerequi  | isites  | 10-M1-PHY and 10-M2-  | PHY or 10-M1-NST and 10-M2-NST   |   |                                   |  |  |  |  |

| 11-TQM-092-m01 | Theore                      | tical M  | echanics a | and Qu   | uantum Mechani   | ics  |   |  |  |  |  |
|----------------|-----------------------------|----------|------------|--|--|--|---|--|--|--|--|
|                | ECTS                        | 16       | Duration   |  |  |  |   |  |  |  |  |
|                | Course                      | S        |            | Theoretische Mechanik (Theoretical Mechanics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester)<br>Quantenmechanik (Quantum Mechanics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)   |  |  |   |  |  |  |  |
|                | Method                      | l of ass | sessment   | <ul> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises in part 1 (Theoretische Mechanik (Theoretical Mechanics)): written examination (approx. 120 minutes).</li> <li>2. Topics covered in lectures and exercises in part 2 (Quantenmechanik (Quantum Mechanics)): written examination (approx. 120 minutes).</li> <li>3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes, usually chosen) or written examination (approx. 120 minutes).</li> <li>Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1 and</li> </ul>  |  |  |   |  |  |  |  |
|                |                             |          |            | <ul> <li>2.</li> <li>To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Students are highly recommended to attend both courses Theoretische Mechanik (Theoretical Mechanics) and Quantenmechanik (Quantum Mechanics). The topics discussed in these two courses will be covered in assessment component 3.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component 3.</li> <li>The grade achieved in assessment component 1 or 2 (whichever is better) and the grade achieved in assessment component 3 will each count 50% towards the overall grade awarded for the module.</li> </ul> |  |  |   |  |  |  |  |
|                | other prerequisites         |          |            | 10-M1-PHY, 10-M2-PHY and 11-MPI-3 or 10-M1-NST, 10-M2-NST and MPI-3  |  |  |   |  |  |  |  |
| 11-ED-092-m01  | Theoretical Electrodynamics |          |            |  |  |  |   |  |  |  |  |
|                | ECTS 8 Duration             |          | Duration   | n  | 1 semester   | Method of grading numerical grade  | Modul level   | undergraduate  |  |  |  |
|                | Course                      | S        |            | V + Ü (no information on SWS (weekly contact hours) and course language available)   |  |  |   |  |  |  |  |
|                | Method of assessment        |          |            | written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)<br>Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an-<br>nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations)<br>2009.   |  |  |   |  |  |  |  |
|                | other p                     | rerequi  | sites      | tive d<br>on to<br>the le<br>sessr   | details at the beg<br>assessment. If s<br>ecturer will put th<br>ment in the curre | must be met to qualify for admission to assess<br>ginning of the course. Registration for the cours<br>students have obtained the qualification for ad<br>heir registration for assessment into effect. Stu<br>ent or in the subsequent semester. For assessmen<br>n to assessment anew. | se will be considered a de<br>dmission to assessment c<br>idents who meet all prere | eclaration of will to seek admissi-<br>over the course of the semester,<br>equisites will be admitted to as- |  |  |  |

| 11-FKP-092-m01          | Solid S               | itate Ph   | ysics 1       |   |   |   |   |   |  |   |  |  |
|-------------------------|-----------------------|------------|---------------|---|---|---|---|---|--|---|--|--|
|                         | ECTS                  | 8          | Duration      | า   | 1 semester  | Method of gradi   | ng numerical grade  | e   | Modul level  | undergraduate   |  |  |
|                         | Course                | S          |               | V + Ü   | (no information o   | n SWS (weekly conta   | act hours) and cours  | se language av                                      | ailable)   |   |  |  |
|                         | Metho                 | d of ass   | essment       | written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)<br>Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.  |   |   |   |   |  |   |  |  |
|                         | other p               | orerequi   |               | Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec-<br>tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi-<br>on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester,<br>the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as-<br>sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali-<br>fication for admission to assessment anew. |   |   |   |   |  |   |  |  |
| 11-TM-092-m01           | Theoretical Mechanics |            |               |   |   |   |   |   |  |   |  |  |
|                         | ECTS                  | 8          | Duration      | ı   | 1 semester  | Method of gradi   | ng numerical grade  | е   | Modul level  | undergraduate   |  |  |
|                         | Course                | S          |               | V + Ü   | (no information o   | n SWS (weekly conta   | act hours) and cours  | se language av                                      | ailable)   | _   |  |  |
|                         |                       |            | essment       | specil<br>Asses<br>nounc<br>2009.   | ied)<br>sment offered: W<br>eed in due form ui  | hen and how often a<br>nder observance of S                             | ssessment will be c<br>Section 32 Subsection  | offered depend<br>on 3 ASPO (ger                    | ls on the metho<br>neral academic                      | 90 minutes; unless otherwise<br>od of assessment and will be an-<br>and examination regulations)  |  |  |
|                         | other prerequisites   |            |               | tive d<br>on to<br>the le<br>sessm  | etails at the begir<br>assessment. If sti<br>cturer will put the<br>nent in the curren                      | ning of the course. I<br>udents have obtaine<br>ir registration for as  | Registration for the<br>d the qualification f<br>sessment into effect<br>nt semester. For ass | course will be<br>for admission t<br>t. Students wh | considered a de<br>to assessment o<br>o meet all prere | nform students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>equisites will be admitted to as-<br>ents will have to obtain the quali- |  |  |
| 11-QAM-092-m01          | Quanta                | a, Atoms   | s, Molecu     | les   |   |   |   |   | -  |   |  |  |
|                         | ECTS                  | 8          | Duration      | า   | 1 semester  | Method of gradi   | ng numerical grade  | e   | Modul level  | undergraduate   |  |  |
|                         | Course                | S          |               | Ü + Ü   | (no information o   | n SWS (weekly cont  | act hours) and cour   | se language av                                      | ailable)   |   |  |  |
|                         | Method of assessment  |            |               | written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)<br>Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.  |   |   |   |   |  |   |  |  |
|                         | other prerequisites   |            |               | Certai<br>tive d<br>on to<br>the le<br>sessm  | n prerequisites m<br>etails at the begir<br>assessment. If str<br>cturer will put the<br>nent in the curren | ning of the course. I<br>udents have obtaine<br>ir registration for as: | Registration for the<br>d the qualification f<br>sessment into effect<br>nt semester. For ass | course will be<br>for admission t<br>t. Students wh | considered a de<br>to assessment o<br>o meet all prere | nform students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>equisites will be admitted to as-<br>ents will have to obtain the quali- |  |  |
| Bachelor's with 1 major | Computation           | nal Mathem | natics (2012) |   |   |   | JMU Würzburg •  | generated 26-Aug-20                                 | 024 • exam. reg. data                                  | record 82 f24 - - H 2012 page 40 / 43   |  |  |

| 11-QM-092-m01  | Quantum Mechanics                        |                       |          |  |   |   |  |  |  |   |  |
|----------------|--|-----------------------|----------|--|---|---|--|--|--|---|--|
|                | ECTS                                     | 8                     | Duration | า  | 1 semester  | Method of grading   | g numerical grade  |  | Modul level                                      | undergraduate   |  |
|                | Courses                                  | S                     |          | V + Ü  | (no information o   | n SWS (weekly contac  | t hours) and course l  | anguage ava                                    | ilable)  |   |  |
|                | Method                                   | Method of assessment  |          |  | fied)   |   |  |  |  | 90 minutes; unless otherwise  |  |
|                |  |                       |          | noun<br>2009   | ced in due form u<br>·  | nder observance of Se   | ction 32 Subsection  | 3 ASPO (gene                                   | eral academic                                    | and examination regulations)  |  |
|                | other p                                  | rerequi               | sites    | tive d<br>on to<br>the le<br>sessr   | letails at the begin<br>assessment. If st<br>ecturer will put the<br>nent in the curren | nning of the course. Re<br>udents have obtained<br>ir registration for asse | egistration for the cou<br>the qualification for a<br>essment into effect. S | urse will be co<br>admission to<br>tudents who | onsidered a de<br>assessment e<br>meet all prere | nform students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>equisites will be admitted to as-<br>ents will have to obtain the quali- |  |
| 11-ST-092-m01  | Statistical Mechanics and Thermodynamics |                       |          |  |   |   |  |  |  |   |  |
|                | ECTS                                     | 8                     | Duration | า  | 1 semester  | Method of grading   | g numerical grade  |  | Modul level                                      | undergraduate   |  |
|                | Courses                                  | S                     |          | V + Ü  | (no information o   | n SWS (weekly contac  | t hours) and course l  | anguage ava                                    | ilable)  |   |  |
|                | Method of assessment                     |                       |          | written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)<br>Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. |   |   |  |  |  |   |  |
|                | other prerequisites                      |                       |          | tive d<br>on to<br>the le<br>sessr   | letails at the begin<br>assessment. If st<br>ecturer will put the<br>nent in the curren | nning of the course. Re<br>udents have obtained<br>ir registration for asse | egistration for the cou<br>the qualification for a<br>essment into effect. S | urse will be co<br>admission to<br>tudents who | onsidered a de<br>assessment e<br>meet all prere | nform students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>equisites will be admitted to as-<br>ents will have to obtain the quali- |  |
| 11-KET-122-m01 | Nuclear                                  | r <mark>and El</mark> | ementary | Partic   | le Physics  |   |  |  |  |   |  |
|                | ECTS                                     | 6                     | Duration | า  | 1 semester  | Method of grading   | g numerical grade  |  | Modul level                                      | undergraduate   |  |
|                | Courses                                  | 5                     |          | V + Ü (no information on SWS (weekly contact hours) and course language available)   |   |   |  |  |  |   |  |
|                | Method of assessment                     |                       |          | written examination (approx. 120 minutes)  |   |   |  |  |  |   |  |
|                | other prerequisites                      |                       |          | tive d<br>on to<br>the le<br>sessr   | letails at the begin<br>assessment. If st<br>ecturer will put the<br>nent in the curren | nning of the course. Re<br>udents have obtained<br>ir registration for asse | egistration for the cou<br>the qualification for a<br>essment into effect. S | urse will be co<br>admission to<br>tudents who | onsidered a de<br>assessment e<br>meet all prere | nform students about the respec-<br>eclaration of will to seek admissi-<br>over the course of the semester,<br>equisites will be admitted to as-<br>ents will have to obtain the quali- |  |

| 10-M-BAC-122-m01   | Thesis  | Compu                    | Itational N | lathemat  | ics (Bachelor 1   | ſhesis)  |   |  |   |  |  |  |  |  |
|--------------------|---------|--------------------------|-------------|---|---|--|---|--|---|--|--|--|--|--|
|                    | ECTS    | 11                       | Duratio     | 1 1   | semester  | Method of grading  | numerical grade   | Modul level  | undergraduate   |  |  |  |  |  |
|                    | Course  | S                        | _,          | no cours  | ses assigned  |  |   |  |   |  |  |  |  |  |
|                    | Metho   | d of ass                 | sessment    |   |   |  |   |  |   |  |  |  |  |  |
|                    |         |                          |             |   | ge of assessme  | ent: German, English if  | agreed upon with the e  | examiner   |   |  |  |  |  |  |
| ubject-specific Ke | -       |                          |             |   |   |  |   |  |   |  |  |  |  |  |
| o-M-MCO-122-       |         | Nathematics and Computer |             |   |   |  |   |  |   |  |  |  |  |  |
| 101                | ECTS    | 7                        | Duratio     |   | semester  |  |   | mpleted Modul level  | undergraduate   |  |  |  |  |  |
|                    | Courses |                          |             | <ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>10-M-COM-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-PRG-1-122: P (no information on SWS (weekly contact hours) and course language available)</li> </ul>  |   |  |   |  |   |  |  |  |  |  |
|                    | Metho   | d of ass                 | sessment    |   |   |  |   |  | nts as specified below. Unless<br>If all individual assessments.  |  |  |  |  |  |
|                    |         |                          |             | <ul> <li>4</li> <li>p</li> <li>b</li> <li>a</li> <li>a</li> <li>a</li> <li>a</li> <li>a</li> <li>a</li> <li>a</li> <li>b</li> <li>a</li> <li>a</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>c</li> <li>a</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>b</li> <li>c</li> <li>c</li></ul> | ECTS, Method<br>roject in the for<br>eginning of the<br>anguage of ass<br>other prerequis<br>tudents about<br>declaration of<br>ssessment over<br>ents who mee<br>ssessment at a<br><b>nent in module</b><br>ECTS, Method<br>roject in the for<br>eginning of the<br>anguage of ass<br>other prerequis<br>tudents about<br>declaration of<br>ssessment over<br>ents who mee | of grading: (not) succe<br>orm of programming e<br>e course)<br>sessment: German, En-<br>ites: Certain prerequisi<br>the respective details<br>will to seek admissio<br>er the course of the set<br>t all prerequisites will<br>a later date, students v<br>e component 10-M-PRC<br>of grading: (not) succe<br>orm of programming e<br>e course)<br>sessment: German, En-<br>ites: Certain prerequisi<br>the respective details<br>will to seek admissio<br>er the course of the set<br>t all prerequisites will | essfully completed<br>xercises (type and exp<br>glish if agreed upon wit<br>tes must be met to qua<br>at the beginning of the<br>n to assessment. If stu<br>mester, the lecturer wit<br>be admitted to assess<br>vill have to obtain the of<br><b>i-1-122:</b> Programming of<br>essfully completed<br>xercises (type and exp<br>glish if agreed upon wit<br>tes must be met to qua<br>at the beginning of the<br>n to assessment. If stu<br>mester, the lecturer with<br>be admitted to assess | th the examiner<br>lify for admission to assue<br>e course. Registration for<br>idents have obtained th<br>ill put their registration<br>ment in the current or in<br>gualification for admission<br>course for students of Ma<br>benditure of time to be<br>th the examiner<br>lify for admission to assue<br>e course. Registration for<br>idents have obtained th<br>ill put their registration | specified by the lecturer at the<br>essment. The lecturer will inform<br>or the course will be considered<br>e qualification for admission to<br>for assessment into effect. Stu-<br>n the subsequent semester. For<br>on to assessment anew.<br>athematics and other subjects<br>specified by the lecturer at the<br>essment. The lecturer will inform<br>or the course will be considered<br>e qualification for admission to<br>for assessment into effect. Stu-<br>n the subsequent semester. For |  |  |  |  |  |
|                    | othern  | rerequ                   | isites      |   |   |  | are listed in the section   |  |   |  |  |  |  |  |

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|--|---|--------------|

| 10-M-MDA-122-           | Introduction into mathe          | matical thinking and working   |  |  |  |  |  |  |  |  |
|-------------------------|----------------------------------|--|--|--|--|--|--|--|--|--|
| m01                     | ECTS 4 Duratio                   | n 1 semester Method of grading (not) successfully completed Modul level undergraduate  |  |  |  |  |  |  |  |  |
|                         | Courses                          | <ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>10-M-MDA-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-MDA-2-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>   |  |  |  |  |  |  |  |  |
|                         | Method of assessment             | Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.   |  |  |  |  |  |  |  |  |
|                         |                                  | <ul> <li>Assessment in module component 10-M-MDA-1-122: Basic Notions and Methods of Mathematical Reasoning Basic Notions and Methods of Mathematical Reasoning</li> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment in module component 10-M-MDA-2-122: Reasoning and Writing in Mathematics Reasoning and Writing in Mathematics</li> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment to effect. Students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualificati</li></ul> |  |  |  |  |  |  |  |  |
|                         | other prerequisites              | By way of exception, additional prerequisites are listed in the section on assessments.  |  |  |  |  |  |  |  |  |
|                         | Referred to in LPO I             | § 73 (1) 5. Mathematik Angewandte Mathematik   |  |  |  |  |  |  |  |  |
| 10-M-SEM-122-           | Seminar Mathematics              | natics   |  |  |  |  |  |  |  |  |
| m01                     | ECTS 5 Duratio                   | on 1 semester Method of grading (not) successfully completed Modul level undergraduate   |  |  |  |  |  |  |  |  |
|                         | Courses                          | S (no information on SWS (weekly contact hours) and course language available)   |  |  |  |  |  |  |  |  |
|                         | Method of assessment             | talk (approx. 60 to 180 minutes)<br>Language of assessment: German, English if agreed upon with the examiner   |  |  |  |  |  |  |  |  |
|                         | other prerequisites              | Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec-<br>tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi-<br>on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester,<br>the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as-<br>sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali-<br>fication for admission to assessment anew.  |  |  |  |  |  |  |  |  |
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