

Annex SFB

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

Responsible: Faculty of Medicine Examination regulations version: 2017

Responsible: Faculty of Chemistry and Pharmacy Examination regulations version: 2017

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

= lecture

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

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

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

= list of modules

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

Conventions for the Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable for bonus.

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

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

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

individual assessments.

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

ASP02015

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

20-Apr-2017 (2017-28) except for mandatory elective 10-M-MCB-152 replaced by 10-M-MCH-172 in Fast Track procedure at a later time

05-Jul-2017 (2017-42)

22-Dec-2021 (2021-87)

??-???-2024 (2024-??)

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

Every module will be described using the following form:

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

| Compulsory Course | es (115 E | CTS cre | dits) | | | | | | | | | |
|--------------------------|----------------------|--|-------------|---|---|--|---|--|--|--|--|--|
| 03-5S2ST-BC-152- | Structu | ıral Bio | logy | | | | | | | | | |
| mo1 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | Courses | | | + Ü (6) | • | | • | | | | |
| | Method | Method of assessment | | | written examination (approx. 60 minutes) | | | | | | | |
| | _ | | | | | nt: German and/or Eng | glish | | | | | |
| 07-1A1ZO-BC-152- | | | | | emistry Students | | | | | | | |
| mo1 | ECTS | 5 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | | , | V (5) | | | | | | | | |
| | | Method of assessment written examination (approx. 180 minutes) | | | | | | | | | | |
| 08-AC1-152-m01 | | | norganic (| | 1 | | | | | | | |
| | | 8 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | | | | a) written examination (approx. 90 to 180 minutes) or | | | | | | | |
| | | | | b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | | |
| | Additio | nal Info | ormation | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh | | | | | | | | |
| | Referre | d to in | LPO I | § 42 Nr. 1 and § 22 Nr. 1 h) § 62 Nr. 1 | | | | | | | | |
| 08-ACP1-BC-152- | Inorgai | nic Che | mistry 1 (l | ab) fo | r Biochemistry stu | dents | | ' | | | | |
| mo1 | ECTS | 6 | Duratio | n | 1 semester | Method of grading | (not) successfully cor | mpleted Modul level | undergraduate | | | |
| | Course | S | | P (6) | + S (2) | | | | | | | |
| | Method of assessment | | | | tes) or c) oral exan or e) presentation ox. 15 minutes each | nination in groups of u (approx. 30 minutes)] | up to 3 candidates (app as well as Vortestate/N pages each) and assess glish | rox. 15 minutes per cand lachtestate (pre and pos | f one candidate each (20 to 30 didate) or d) log (approx. 20 pa- st-experiment examination talks nments (2 to 4 random examinati- | | | |

| 08-0C1-152-m01 | Organic Chemistry 1 | | | | | | | | | | |
|-----------------|-----------------------------------|---------------|---|--|--|----------------------|---------------|--|--|--|--|
| | ECTS 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Courses | | V (3) - | + Ü (1) | | | | | | | |
| | Method of | assessment | b) ora | l examination of o | approx. 90 to 180 minutes) or ne candidate each (20 to 30 minutes) or | | | | | | |
| | | | d) log e) pre | c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | |
| | | | accor | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter b) of annex 1 to the APOLmCh and No. 2 of annex 2 to the APOLmCh | | | | | | | |
| | Referred to | in LPO I | § 62 l | Nr. 2 | | | | | | | |
| 08-0C2-152-m01 | Organic Ch | nemistry 2 an | d analy | tical methods in o | organic chemistry | | | | | | |
| | ECTS 9 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Courses | | V (3) - | + Ü (1) + V (2) | | | | | | | |
| | Method of | assessment | b) ora c) ora d) log e) pre |) written examination (approx. 90 to 180 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or) presentation (approx. 30 minutes) anguage of assessment: German and/or English | | | | | | | |
| 08-0CP1-BC-152- | Organic ch | emistry - lab | oratory | course for Bioche | emistry students | | | | | | |
| mo1 | ECTS 7 | Duration | n | 1 semester | Method of grading (not) successfully com | pleted Modul level | undergraduate | | | | |
| | Courses | ' | P (12) | | | | | | | | |
| | Method of | assessment | and a | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | | | |
| | Modules s completed | uccessfully | 08-00 | C1 and 08-ACP1-BC | | | | | | | |
| 08-PC-MBS-152- | Molecular | structure and | spect | roscopy | | | | | | | |
| mo1 | ECTS 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Courses | | V (2) · | + Ü (2) | | | | | | | |
| | | | b) ora c) ora d) log e) pre Langu credit | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | | | |
| | Referred to in LPO I § 62 I Nr. 1 | | | | | | | | | | |

| 08-PC-TKE-152- | Thermodynamics, Kinetics, Electrochemistry | | | | | | | | | | | | |
|----------------|--|------------------|----------|---|---|----------------------|------------------------------|-------------|---------------|--|--|--|--|
| mo1 | ECTS | 9 | Duration |) | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | es. | | V (4) + | - Ü (2) | | | | | | | | |
| | Method | d of ass | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | | | | | |
| | | ed to in I | | § 62 l | | , | | | | | | | |
| 08-PCP-BC-152- | | _ | | | emistry for Bioche | | | | | | | | |
| mo1 | ECTS 6 Duratio | | | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | | |
| | Course | es . | | P (4) | | | | | | | | | |
| | Method of assessment | | | and as Langu | ortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages eac and assessment of practical performance (2 to 4 random examinations) anguage of assessment: German and/or English assessment offered: Once a year, winter semester | | | | | | | | |
| | Module | es succe eted | essfully | o8-PC | -MBS or o8-PC-TKE | | | | | | | | |
| 08-BAN-152-m01 | Bioanalytics | | | | | | | | | | | | |
| | ECTS | 9 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | es. | | V (1) + | $(1) + \ddot{U}(1) + P(5)$ | | | | | | | | |
| | Method | d of ass | | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will maximum of 4 hours) Language of assessment: German and/or English | | | | | | | | | |
| 08-BC1-152-m01 | | mistry 1 | | | | | | | | | | | |
| | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | es . | | V (2) + | + Ü (1) | | | | | | | | |
| | Method | d of ass | | | | orox. 60 to 90 minut | | | | | | | |
| | Additional Information | | | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter e) and No. II 1st letter c) of annex 1 to the APOLmCh and No. 3 of annex 3 to the APOLmCh | | | | | | | | | |
| | Referred to in LPO I | | | § 42 Nr. 2 § 62 Nr. 2 | | | | | | | | | |

| 08-BC2-152-m01 | Biochemistry 2 | | | | | | | | | | |
|----------------------|-------------------------------|--------------|---|---|---|--|--|--|--|--|--|
| | ECTS 5 | Duratio | n 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | V (2) + Ü (1) | · | | | | | | | |
| | Method of as | sessment | written examination (a | written examination (approx. 60 to 90 minutes) | | | | | | | |
| | Additional In | formation | bensmittelchemikerin | rursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Le- ensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food che- nists, APOLmCh) in conjunction with No. II 2. Letter e) and No. II 1. Letter c) of Annex 1 of APOLmCh and No. 3 of Annex 3 of APOLmCh. | | | | | | | |
| 08-BCP-152-m01 | Practical cou | rse of Bioc | hemistry | | ' | | | | | | |
| | ECTS 5 | Duratio | n 1 semester | Method of grading (not) successfully comp | leted Modul level | undergraduate | | | | | |
| | Courses | | P (6) | · | • | | | | | | |
| | Method of as | sessment | Log (approx. 30 pages Assessment offered: 0 | s) Once a year, summer semester | | | | | | | |
| | Modules suc completed | cessfully | 08-BC1 | | | | | | | | |
| | Participants cation of pla | | Students of the Bachelor's degree programme Biochemie (Biochemistry, 180 ECTS credits): no restrictions with regard to available places. Students of the Bachelor's degree programme Chemie (Chemistry, 180 ECTS credits): no more than 6 places; places will be allocated according to the number of subject semesters, among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available. | | | | | | | | |
| 08-BC-MOL-152- | Molecular Biology | | | | | | | | | | |
| mo1 | ECTS 6 | Duration | n 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | | | | | | | | | |
| i | Courses | | $V(2) + \ddot{U}(1) + V(1)$ | · | 1 | | | | | | |
| | | ssessment | a) written examination b) log (10 to 20 pages c) oral examination of d) oral examination in e) presentation (20 to f) practical examination maximum of 4 hours) | one candidate each (20 to 30 minutes) or groups of up to 3 candidates (approx. 15 to 20 m | inutes per candidate |) or | | | | | |
| 10-M-MCH-172- | Method of as | | a) written examination b) log (10 to 20 pages c) oral examination of d) oral examination in e) presentation (20 to f) practical examination maximum of 4 hours) | or one candidate each (20 to 30 minutes) or groups of up to 3 candidates (approx. 15 to 20 m 30 minutes) or on (on average approx. 2 hours; time to complete ent: German and/or English | inutes per candidate |) or | | | | | |
| 10-M-MCH-172- mo1 | Method of as | | a) written examination b) log (10 to 20 pages c) oral examination of d) oral examination in e) presentation (20 to f) practical examination maximum of 4 hours) Language of assessm ts in Chemistry and Bi | or one candidate each (20 to 30 minutes) or groups of up to 3 candidates (approx. 15 to 20 m 30 minutes) or on (on average approx. 2 hours; time to complete ent: German and/or English | inutes per candidate |) or | | | | | |
| , | Method of as | s for studen | a) written examination b) log (10 to 20 pages c) oral examination of d) oral examination in e) presentation (20 to f) practical examination maximum of 4 hours) Language of assessm ts in Chemistry and Bi | or one candidate each (20 to 30 minutes) or groups of up to 3 candidates (approx. 15 to 20 m 30 minutes) or on (on average approx. 2 hours; time to complete ent: German and/or English ochemistry | inutes per candidate) will vary according to | or subject area but will not exceed a | | | | | |

| 11-EFNF-152-m01 | Introduction to Physics for Students of other Disciplines | | | | | | | | | | |
|----------------------------|---|-----------|-----------|---|---|---|--|--|--|--|--|
| | ECTS | 7 | Duration | ı | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | 5 | • | V (4) · | + V (3) | • | | • | • | | |
| | Method | of ass | essment | writte | written examination (60 to 120 minutes) | | | | | | |
| | Additio | nal Info | rmation | | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh | | | | | | |
| 11-PFNF-152-m01 | Laboratory Course Physics for Students of other Disciplines | | | | | | | | | | |
| | ECTS 3 Duratio | | | า | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | 5 | | P (4) | | | | | | | |
| | Method | l of asso | essment | tes). | | | | | n examination (approx. 90 minu- | | |
| | | | | be rep | Each experiment comprises preparation, performance and evaluation. Test as well as performance of experiments can each be repeated once. | | | | | | |
| | Particip cation o | | | Only as part of pool of general transferable skills (ASQ): 10 places (lottery) | | | | | | | |
| | Additional Information | | | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh | | | | | | | |
| Compulsory Elective | es (30 E | CTS cre | dits) | | | | | | | | |
| 03-4S1IMM- | Immuno | ology fo | r biocher | mistry students | | | | | | | |
| BC-152-mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | 5 | | V (1) + | + Ü (1) + P (3) | | | | | | |
| | Method | l of asso | essment | written examination (approx. 45 minutes) Assessment offered: Once a year, summer semester | | | | | | | |
| | Participants and allocation of places | | | Selec numb avera lot. Q numb | tion process Bioche er of available place ge grade of success uota 2 (one third of | es, places will be allo fully completed mod places): number of si | Bachelor's (180 ECTS credits): Socated according to the followin ules; among applicants with the ubject semesters of the respect | g quotas: Quot e same average ive applicant; a | ber of applications exceed the a 1 (two thirds of places): current grade, places will be allocated by among applicants with the same d and places re-allocated as they | | |

| 03-4S1VIR-BC-152- | - Virology for biochemistry students | | | | | | | | | | | |
|-------------------|--------------------------------------|----------|---|---|------------------------|------------------------------------|--|--|--|--|--|--|
| mo1 | ECTS 5 | Duration | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | | |
| | Courses | | V (1) + S (1) + P (3) | | , | | | | | | | |
| | Method of ass | | | a) written examination (approx. 45 to 90 minutes) or | | | | | | | | |
| | | | b) log (10 to 20 page | | | | | | | | | |
| | | | c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or | | | | | | | | | |
| | | | e) presentation (20 t | | nates per canalate, | , 5. | | | | | | |
| | | | maximum of 4 hours | | will vary according to | subject area but will not exceed a | | | | | | |
| | | | Language of assessment: German and/or English Assessment offered: Once a year, summer semester | | | | | | | | | |
| | Participants a cation of plac | es | Selection process Bi number of available average grade of suc lot. Quota 2 (one thi | Biochemie (Biochemistry), Bachelor's: 18 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. | | | | | | | | |
| 03-VIR2-BC-171- | Virology 2 for Biochemistry Students | | | | | | | | | | | |
| mo1 | ECTS 5 | Duration | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | | |
| | Courses | , | V (2) + P (3) | | | | | | | | | |
| | Method of ass | | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester | | | | | | | | | |
| | Participants a cation of plac | | Biochemie (Biochem | nistry) Bachelor's: 255 places. | | | | | | | | |

| 08-BGV-171-m01 | Imagin | g meth | ods in life | -scien | ces | | | | | | |
|----------------|--|----------|-------------|---|---|--|---|---|--|--|--|
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (2) - | / (2) + S (1) | | | | | | |
| | Method | d of ass | essment | b) log c) ora d) ora e) pre f) pra- maxir Langu | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester | | | | | | |
| | Participants and allo- cation of places | | | | Biochemie (Biochemistry) Bachelor's: 25 places. | | | | | | |
| 03-4S1HUG- | Human genetics for biochemistry students | | | | | | | | | | |
| BC-152-mo1 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (1) + Ü (1.5) + S (0.5) | | | | | | | |
| | Method | of ass | essment | written examination (approx. 30 minutes) | | | | | | | |
| | Participants and allocation of places | | | Selec numb avera lot. Q numb | tion process Bioche er of available plac ge grade of success uota 2 (one third of | es, places will be allo fully completed mod places): number of s | Bachelor's (180 ECTS credits): Socated according to the following to the following applicants with the ubject semesters of the respec | ng quotas: Quot ne same average tive applicant; a | ber of applications exceed the a 1 (two thirds of places): current e grade, places will be allocated by among applicants with the same d and places re-allocated as they | | |

| 03-PBC-152-m01 | Pathobiochemistry | | | | | | | | | | | |
|-----------------|---|----------------------|---------------------|--|--|--|-------------|---------------|--|--|--|--|
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | ·S | | V (1) + | + Ü (1) + P (3) | | | | | | | |
| | Particiç | oants ar | essment nd allo- | a) wri b) log c) ora d) ora e) pre f) pra maxir Langu Asses Bioch Selec numb avera | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, summer semester Biochemie (Biochemistry), Bachelor's: 6 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same | | | | | | | |
| as DC MOLD 470 | Malagu | ulaw Bial | | number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. | | | | | | | | |
| 08-BC-MOLP-152- | Molecular Biology laboratory course ECTS 10 Duration 1 semester Method of grading numerical grade Modul level undergraduate | | | | | | | | | | | |
| | Courses | | | P (5) | 1 Semester | Method of glading Indinencal glade | Modulilevel | undergraduate | | | | |
| | Method | d of ass | | b) log c) ora d) ora e) pre f) pra- maxir Langu | (10 to 20 pages) (l examination of o al examination in g esentation (20 to 3 ctical examination num of 4 hours) uage of assessmer | ne candidate each (20 to 30 minutes) or roups of up to 3 candidates (approx. 15 to 20 minut | • | | | | | |
| | | oants ar of place | | Biochemie (Biochemistry), Bachelor's: 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Chemie (Chemistry), Master's: 6 places. Selection process Chemie (Chemistry), Bachelor's (120 ECTS credits): Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. | | | | | | | | |

| 03-ZBP-152-m01 | Cell biology | | | | | | | | | | |
|----------------|--|----------------------|-----------|--|---|---|---|--|--|--|--|
| | ECTS | 5 | Duration | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | :S | • | P (4) · | + S (2) | | • | | | | |
| | Method | d of ass | essment | | | | | | | | |
| | | | | | Language of assessment: German and/or English | | | | | | |
| | cation | pants ar of place | 25 | Selection number averal lot. Quantity number of the contraction of the | Biochemie (Biochemistry), Bachelor's: 12 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. | | | | | | |
| 07-5S2Mi- | Specifi | ic Micro | biology 2 | for St | udents in Biochemi | stry | | | | | |
| Z2-BC-152-m01 | ECTS | 10 | Duration | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | !S | | V (1) - | + S (1) + Ü (3) | | | | | | |
| | Particir | | nd allo- | c) ora d) ora e) pre f) pra maxir | b) log (10 to 20 pages) or c) or c) or al examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Biochemie (Biochemistry), Bachelor's: 6 places. | | | | | | |
| | Participants and allo- cation of places | | | Selec numb avera lot. Q numb | tion process Bioche per of available plac ge grade of success uota 2 (one third of | emie (Biochemistry), Bachelor's (180 ECTS credits): eenie (Biochemistry), Bachelor's (180 ECTS credits): ees, places will be allocated according to the follow sfully completed modules; among applicants with to places): number of subject semesters of the respesters, places will be allocated by lot. A waiting list vers, | ing quotas: Quot he same average ctive applicant; a | a 1 (two thirds of places): current grade, places will be allocated by mong applicants with the same | | | |
| 08-0C4-152-m01 | Organi | c Chem | istry 4 | | | | | | | | |
| | ECTS | 5 | Duration | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | !S | | V (2) | + Ü (2) | | | | | | |
| | Method | d of ass | essment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | |
| | Referre | ed to in I | -P0 I | § 22 Nr. 1 h) § 22 Nr. 2 f) § 62 Nr. 2 | | | | | | | |

| 08-0CP2-152-m01 | Organic | Chemi | istry - adv | anced | laboratory course fo | or students of chemi | stry | | | | |
|-----------------|----------------------|----------|-------------|--|--|----------------------|------------------------------|-------------|---------------|--|--|
| | ECTS | 5 | Duration | า | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | S | • | P (11) | P (11) | | | | | | |
| | Method of assessment | | | and a | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | | |
| | Module comple | | essfully | 08-00 | C2 and (08-0CP1 or (| OCP1-BC) | | | | | |
| 07-4BFMZ4- | Bioinfo | rmatics | for adva | nced S | tudents in Biochemi | stry | | | | | |
| BC-152-m01 | ECTS | 5 | Duration | ı | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | 5 | | V (1) + | $(1) + \ddot{U}(4)$ | | | | | | |
| | Method of assessment | | | | | German and/or Engl | ish | | | | |
| | Particip cation o | | | Selection number avera lot. Quantity | Biochemie (Biochemistry), Bachelor's: 4 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): overage grade of successfully completed modules; among applicants with the same average grade, places will be allocated. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated applicanted applicanted and places re-allocated applicanted and places re-allocated applicanted and places re-allocated applicanted and places re-allocated applicanted applicanted and places re-allocated applicanted applicanted and places re-allocated app | | | | | | |
| 03-98-PGN-152- | Introdu | ction to | Neurobi | ology | | | | | | | |
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (2) + S (3) Course type: S might be offered in Ü format | | | | | | | |
| | Method of assessment | | | written examination (90 minutes) and successful completion of seminar/exercise | | | | | | | |

| 08-BC-AMP-152- | Current Methods of Protein Chromatography | | | | | | | | | | | | | |
|------------------|---|-------------------------|---|--|---|--------------------------------------|-------------|---------------|--|--|--|--|--|--|
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | | |
| | Course | S | | P (5) | • | · | • | | | | | | | |
| | Method | d of ass | essment | a) written examination (approx. 45 to 90 minutes) or | | | | | | | | | | |
| | | | | | b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or | | | | | | | | | |
| | | | | d) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or | | | | | | | | | | |
| | | | | | e) presentation (20 to 30 minutes) or | | | | | | | | | |
| | | | | f) pra | presentation (20 to 30 minutes) of practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) | | | | | | | | | |
| | | | | | Language of assessment: German and/or English Assessment offered: Once a year, winter semester | | | | | | | | | |
| | Participants and allocation of places | | | Selection number average lot. Quantitation number 1 average 1 aver | Biochemie (Biochemistry), Bachelor's: 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. | | | | | | | | | |
| 08-AVP5-BC-152- | Advanc | Advanced lab (abridged) | | | | | | | | | | | | |
| mo1 | ECTS | 5 | Duration | า | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | | |
| | Course | S | | P (8) | P (8) | | | | | | | | | |
| | Method | d of ass | essment | | approx. 20 pages) uage of assessme | nt: German and/or English | | | | | | | | |
| | Additio | nal Info | rmation | Addit | ional information | on module duration: approx. 3 weeks. | · | | | | | | | |
| 08-AVP10-BC-152- | Advanc | ed lab | ' | | | | | | | | | | | |
| mo1 | ECTS | 10 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | | |
| | Course | S | | P (16) | P (16) | | | | | | | | | |
| | Method of assessment | | | Log (approx. 30 pages) Language of assessment: German and/or English | | | | | | | | | | |
| | Additional Information | | Additional information on module duration: approx. 6 weeks. | | | | | | | | | | | |

| 08-BC-SFBM-212- | Structu | re and | Function o | of Biolo | of Biological Membranes and Membrane Proteins | | | | | | | | |
|---|---------------------------------------|-----------|------------|---|---|---------------------------|------------------------------|-------------|---------------|--|--|--|--|
| mo1 | ECTS | 10 | Duration | | 1 semester | Method of grading | | Modul level | undergraduate | | | | |
| | Course | S | | V (2) - | V (2) + S (1) + P (5) | | | | | | | | |
| | Method | d of asso | essment | a) written examination (approx. 45 to 90 minutes) or b) term paper (8 to 12 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) presentation (20 to 30 minutes) Language of assessment: German and/or English | | | | | | | | | |
| | | | | Assessment offered: Once a year, winter term | | | | | | | | | |
| Transferable Skills | Participants and allocation of places | | | Biochemie (Biochemistry), Bachelor's: 12 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. | | | | | | | | | |
| General Key Skills Students may select | | | | red as | part of the pool o | of general transferable s | skills (ASQ) of JMU. | | | | | | |
| Subject-specific Ke | y Skills | (15 ECT: | S credits) | | | | | | | | | | |
| 07-M-BST-152-m01 | Mather | natical | Biology a | nd Biostatistics | | | | | | | | | |
| | ECTS | 4 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | | | $V(2) + \ddot{U}(2)$ | | | | | | | | | |
| | Method | d of asso | essment | written examination (approx. 60 minutes) creditable for bonus | | | | | | | | | |
| 41-IK-BM-152-m01 | Informa | ation Lit | eracy (Ba | sic Lev | rel) | | | | | | | | |
| | ECTS 2 Duratio | | Duration | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | | |
| | Courses | | | Ü (o.5) | | | | | | | | | |
| | | | | presentation (approx. 15 minutes) with written elaboration (approx. 2 pages) | | | | | | | | | |
| | Additional Information | | | Additional information on module duration: usually block taught during semester break. | | | | | | | | | |
| | Referred to in LPO I | | | § 99 l | Nr. 1 (2 ECTS cred | lits) | | | | | | | |

| 06-Ph-B-P2/1-152- | Philoso | phical p | rinciples | of sci | ences I | | | , | | | |
|-------------------|---------------------------------------|-----------|------------|--|----------------------|-----------------------|------------------------------|-------------|---------------|--|--|
| mo1 | ECTS | 5 | Duration | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | | V (2) | V (2) | | | | | | |
| | Method | of asse | ssment | written examination (45 minutes) | | | | | | | |
| | Participants and allocation of places | | | Only as part of pool of general transferable skills (ASQ): max. 20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. | | | | | | | |
| 07-3A3Bl-152-m01 | Bioinfor | matics | | | | | | | | | |
| | ECTS | 2 | Duration | ı | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (1) + | - S (1) | | | | | | |
| | Method | of asse | ssment | writte | n examination (appr | ox. 20 minutes) | | | | | |
| 03-TR-152-m01 | Toxicolo | gy and | legal stu | ıdies | | | | | | | |
| | ECTS 3 Duratio | | | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (1) + | - V (1) | | | | | | |
| | Method | of asse | ssment | written examination (approx. 90 minutes) | | | | | | | |
| | Addition | nal Infor | mation | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter g) and i) and No. II 1st letter d) of annex 1 to the APOLmCh and No. 5 and 6 of annex 3 to the APOLmCh | | | | | | | |
| | Referred to in LPO I | | | § 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f) | | | | | | | |
| 03-FOR-BC-152- | Contemporary research in biochemistry | | | | | | | | | | |
| mo1 | ECTS | 2 | Duration | ı | 2 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | | V (2) | | | | | | | |
| | Method | of asse | ssment | Wrap-up report (approx. 1 page) | | | | | | | |
| 03-Phys-152-m01 | Physiol | ogy | | | | | | | | | |
| | ECTS | 3 | Duration | ı | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (3) | | | | | | | |
| | Method | of asse | ssment | written examination (approx. 60 minutes) | | | | | | | |
| 08-EP-152-m01 | Practica | l Cours | e - exteri | nal | | | | | | | |
| | ECTS | 10 | Duration | ı | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | | P (o) | | | | | | | |
| | Method of assessment | | | Log (approx. 30 pages) Language of assessment: German and/or English | | | | | | | |
| | other pr | erequis | ites | Pleas | e consult with cours | e advisory service in | advance. | | | | |
| | Addition | nal Infor | mation | Addit | onal information on | module duration: ap | prox. 6 weeks. | | | | |

| <u> </u> | ECTS 5 | | Practical Course - external (abridged) | | | | | | | | | |
|---------------------------------------|----------------------|-----------|--|---|--|--|--|--|--|--|--|--|
| [| | Duration | n | 1 semester | Method of grading (not) successfully completed Modul level undergraduate | | | | | | | |
| | Courses | | P (o) | (0) | | | | | | | | |
| N | Method of asse | essment | Log (a | Log (approx. 20 pages) | | | | | | | | |
| | | | | Language of assessment: German and/or English | | | | | | | | |
| | other prerequis | | | lease consult with course advisory service in advance. | | | | | | | | |
| | Additional Info | | | Additional information on module duration: approx. 3 weeks. | | | | | | | | |
| · | Practical Cours | , | | | | | | | | | | |
| | ECTS 10 | Duration | | 1 semester | Method of grading (not) successfully completed Modul level undergraduate | | | | | | | |
| ! — | Courses | | P (o) | | | | | | | | | |
| | Method of asse | | Langu | og (approx. 30 pages) anguage of assessment: German and/or English | | | | | | | | |
| l — | other prerequis | | | | se advisory service in advance. | | | | | | | |
| | Additional Info | | | Iditional information on module duration: approx. 6 weeks. | | | | | | | | |
| · | Practical Cours | 4 | | | | | | | | | | |
| | ECTS 5 | Duration | | 1 semester | Method of grading (not) successfully completed Modul level undergraduate | | | | | | | |
| | Courses | | P (o) | | | | | | | | | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Method of asse | essment | Log (approx. 20 pages) Language of assessment: German and/or English | | | | | | | | | |
| C | other prerequis | sites | Pleas | e consult with cours | se advisory service in advance. | | | | | | | |
| A | Additional Info | rmation | Additi | Additional information on module duration: approx. 3 weeks. | | | | | | | | |
| 08-LP-152-m01 P | Practical Lab Course | | | | | | | | | | | |
| [E | ECTS 10 | Duration | n | 1 semester | Method of grading (not) successfully completed Modul level undergraduate | | | | | | | |
| | Courses | | P (16) | | | | | | | | | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Method of asse | essment | Log (approx. 30 pages) Language of assessment: German and/or English | | | | | | | | | |
| C | other prerequis | sites | Please consult with course advisory service in advance. | | | | | | | | | |
| A | Additional Info | rmation | Additional information on module duration: approx. 6 weeks. | | | | | | | | | |
| | Practical Lab C | ourse (ab | ridged |) | | | | | | | | |
| E | ECTS 5 | Duration | | 1 semester | Method of grading (not) successfully completed Modul level undergraduate | | | | | | | |
| · — | Courses | | P (8) | | | | | | | | | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Method of asse | essment | Log (approx. 20 pages) Language of assessment: German and/or English | | | | | | | | | |
| С | other prerequis | sites | Pleas | e consult with cours | e advisory service in advance. | | | | | | | |
| P | Additional Info | rmation | Additi | ional information on | n module duration: approx. 3 weeks. | | | | | | | |

| 08-WIRE1-152-m01 | Scienti | ific lectu | ring 1 | | | | | | | | | |
|------------------|----------------------|------------|------------|---|--|--------------------------------|------------------------------|-------------|---------------|--|--|--|
| | ECTS | 5 | Duratio | 1 | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | :S | | T (o) | | | | | | | | |
| | Metho | d of asse | essment | | Wrap-up report (approx. 2 pages) Language of assessment: German and/or English | | | | | | | |
| 08-WIRE2-152-m01 | Scienti | ific lectu | ring 2 | | | | | | | | | |
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | | | T (o) | | | | | | | | |
| | Method | d of asse | essment | | up report (approx. 2 age of assessment: | pages) German and/or Engl | ish | | | | | |
| 08-AFBC1-152-m01 | Conten | nporary | Research | in Bio | chemistry 1 | | | | | | | |
| | ECTS | 3 | Duratio | | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | !S | | V (2) - | | | | | | | | |
| | Method | d of asse | essment | | ntation (approx. 10 n lage of assessment: | ninutes) German and/or Engl | ish | | | | | |
| o8-AFBC2-152-mo1 | Conten | nporary | Research | in Bio | chemistry 2 | | | | | | | |
| | ECTS | 3 | Duratio | 1 | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | S | | V (2) - | | | | | | | | |
| | Method | d of asse | essment | presentation (approx. 10 minutes) Language of assessment: German and/or English | | | | | | | | |
| 08-AFBC3-152-m01 | Conten | nporary | Research | in Biochemistry 3 | | | | | | | | |
| | ECTS | 3 | Duratio | 1 | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | :S | | V (2) + S (1) | | | | | | | | |
| | Method of assessment | | | presentation (approx. 10 minutes) Language of assessment: German and/or English | | | | | | | | |
| 08-BPS1-152-m01 | Bioche | mical Pı | ractical S | eminar | minar 1 | | | | | | | |
| | ECTS | 1 | Duratio | 1 | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | :S | | S (1) | | | | | | | | |
| | Metho | d of asse | essment | Wrap-up report (approx. 1 page) Language of assessment: German and/or English | | | | | | | | |
| 08-BPS2-152-m01 | Bioche | mical Pı | ractical S | eminar | 2 | | | | | | | |
| | ECTS | 1 | Duratio | 1 | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | ·S | | S (1) | | | | | | | | |
| | Method of assessment | | | | up report (approx. 1 lage of assessment: | page) German and/or Engl | ish | | | | | |

| 08-BPS3-152-m01 | Biochemical Practical Seminar 3 | | | | | | | | | | |
|-----------------|---------------------------------|----------|-----------|---|----------------------|------------------------------|------------------------------|---------------|---------------|--|--|
| | ECTS 1 Duration | |) | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Courses | | | S (1) | | | | | | | |
| | Method of assessment | | | Wrap-up report (approx. 1 page) | | | | | | | |
| | | | | Language of assessment: German and/or English | | | | | | | |
| 08-AWA-152-m01 | Guidance in scientific practice | | | | | | | | | | |
| | | 5 | Duration | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | | T (o) | | | | | | | |
| | Method | of asse | | Wrap-up report (approx. 1 page) Language of assessment: German and/or English | | | | | | | |
| 08-AC-ELO-152- | Element | al Orga | anic Chem | nistry | | | | | | | |
| mo1 | ECTS | 5 | Duration |) | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | , | | V (2) - | + Ü (1) | | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | |
| | Referred to in LPO I | | | § 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f) | | | | | | | |
| 08-ACP2-152-m01 | Inorganic Chemistry 2 (lab) | | | | | | | | | | |
| | ECTS 5 Duration | | | ì | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | | P (12) | | | | | | | |
| | Method of assessment | | | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English | | | | | | | |
| | Modules successfully completed | | | (o8-A | CP1 or 08-ACP1-BC) a | and 08-AC1 and 08-A | AS1 | | | | |
| 08-PC-SBL-152- | Symmet | try, che | mical bor | nding | and light | | | | | | |
| mo1 | ECTS | 9 | Duration | 1 | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (3) + Ü (2) + V (2) + Ü (2) | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | |

| 08-AS1-152-m01 | Inorga | nic Che | mistry of | the Ele | ments | | | | | | |
|----------------|----------------------|------------------------|------------|---|--|--|----------------------|--------------------------------|--|--|--|
| | ECTS | 6 | Duratio | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | | | ` ′ | V (2) + V (2) | | | | | | |
| | Method | d of ass | essment | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | |
| | Additio | nal Info | ormation | | ding to § 2 para. 2 c 2 to the APOLmC | sentence 2 APOLmCh in conjunction with No. I 2n h | d letter a) of annex | (1 to the APOLmCh and No. 1 of | | | |
| | Referre | | | § 62 l | Nr. 1 | | | | | | |
| 08-ANP-152-m01 | | | mistry (la | b) | | | | | | | |
| | ECTS 6 Duratio | | | | 1 semester | Method of grading (not) successfully complet | ed Modul level | undergraduate | | | |
| | Course | | | ` ′ | P (12) + S (1) | | | | | | |
| | Method | Method of assessment | | | Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, summer semester | | | | | | |
| | Additio | Additional Information | | | according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 1st letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh | | | | | | |
| 08-0C4-152-m01 | Organic Chemistry 4 | | | | | | | | | | |
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | S | | $V(2) + \ddot{U}(2)$ | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | |
| | Referre | Referred to in LPO I | | | l Nr. 1 h) l Nr. 2 f) Nr. 2 | | | | | | |

| 08-TC-152-m01 | Quantu | Quantum Chemistry | | | | | | | | | | | |
|-----------------|---|-------------------|------------------------|--|------------------------|-------------|-------------|---------------|--|--|--|--|--|
| | ECTS | 3 | Duration | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | | | | |
| | Course | S | V (| $V(2) + \ddot{U}(1)$ | | | | | | | | | |
| | Method | d of ass | b) (c) (d | a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or | | | | | | | | | |
| | | | e) Lar | d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | | | | | |
| | Referre | d to in l | § 2 | § 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f) | | | | | | | | | |
| 08-GC-242-m01 | Green and sustainable (organic) chemistry | | | | | | | | | | | | |
| | ECTS 5 Duration | | | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | | | | |
| | Courses | | | V (2) + Ü (1) Module taught in: German or English | | | | | | | | | |
| | Method | d of ass | b) Lar | a) portfolio (approx. approx. 40 hours total) or b) written examination (approx. 60 to 90 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester | | | | | | | | | |
| 08-BC-E-212-m01 | Ethics 0 | of Mole | cular Life Sci | ences | | | | | | | | | |
| | ECTS | 2 | Duration | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | | | | |
| | Course | s | V (| V (1) + S (1) | | | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 45 to 90 minutes) or b) term paper (8 to 12 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) presentation (20 to 30 minutes) Language of assessment: German and/or English | | | | | | | | | |

| 08-BC-PHIL-212- | Philosophical Aspects of the Sciences | | | | | | | | | | | | |
|-------------------------|---------------------------------------|----------|---------------|--|---------------------|---------------------------------------|----------------------------------|------------------------|---------------------------------------|--|--|--|--|
| mo1 | ECTS | 3 | Duratio | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | !S | | S (2) | | • | | • | • | | | | |
| | Method | d of as | sessment | | | | | | | | | | |
| | | | | b) term paper (8 to 12 pages) or | | | | | | | | | |
| | | | | c) oral examination of one candidate each (20 to 30 minutes) or | | | | | | | | | |
| | | | | d) presentation (20 to 30 minutes) Language of assessment: German and/or English | | | | | | | | | |
| | | | | | | nce a year, winter term | | | | | | | |
| | Particip | pants a | and allo- | Biocl | nemie (Biochemist | ry), Bachelor's: 30 pla | ces. | , | | | | | |
| | cation | of plac | ces | Seled | ction process Bioc | nemie (Biochemistry), | Bachelor's (180 ECTS credits): | | | | | | |
| | | | | | | applications exceed th | e number of available places, | places will be all | ocated according to the following | | | | |
| | | | | quot | | laces). current averag | e grade of successfully comple | eted modules: an | nong applicants with the same | | | | |
| | | | | | | vill be allocated by lot | | ica modules, an | mong applicants with the same | | | | |
| | | | | Quot | a 2 (one third of p | aces): number of subj | ect semesters of the respective | e applicant; amo | ng applicants with the same num- | | | | |
| | | | | ber of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. | | | | | | | | | |
| 00 DC 70No 450 | ۸ ما ما ند: م | nal O | . alification | | | imtained and places r | e-allocated as they become av | anabie. | | | | | |
| 08-BC-ZQN3-152- mo1 | | | Duration | | tural Sciences 3 | Mothod of grading | (not) successfully completed | 1 Madullaval | undorgraduato | | | | |
| | ECTS | 3 | Duratio | Ü (o) | 1 semester | Method of grading | ((not) successibility completed | ı Modul level | undergraduate | | | | |
| | Course | | sassmant | a) written examination (approx. 45 to 90 minutes) or | | | | | | | | | |
| | Method | a or as: | sessment | b) log (10 to 20 pages) or | | | | | | | | | |
| | | | | c) oral examination of one candidate each (20 to 30 minutes) or | | | | | | | | | |
| | | | | d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or | | | | | | | | | |
| | | | | e) presentation (20 to 30 minutes) or | | | | | | | | | |
| | | | | f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) | | | | | | | | | |
| | | | | Language of assessment: German or English | | | | | | | | | |
| | other p | rerequ | isites | Please consult with course advisory service in advance. | | | | | | | | | |
| 08-BC-ZQN5-152- | Additio | onal Qu | ualification | in Na | tural Sciences 5 | · · · · · · · · · · · · · · · · · · · | | , | | | | | |
| mo1 | ECTS | 5 | Duratio | า | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | | |
| | Course | !S | | Ü (o) | | ' | | • | | | | | |
| | Method | d of as: | sessment | | | | | | | | | | |
| | | | | | g (10 to 20 pages) | | | | | | | | |
| | | | | c) oral examination of one candidate each (20 to 30 minutes) or | | | | | | | | | |
| | | | | d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or | | | | | | | | | |
| | | | | f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a | | | | | | | | | |
| | | | | maximum of 4 hours) | | | | | | | | | |
| | | | | | | nt: German or English | | | | | | | |
| | other p | rerequ | uisites | Please consult with course advisory service in advance. | | | | | | | | | |
| Bachelor's with 1 major | Biochemistr | y (2017) | | | | | JMU Würzburg • generated 19-Apr- | 2025 • exam. reg. data | record 82 025 - - H 2017 page 21 / 22 | | | | |

| 08-BC-EQN3-152- | Completive Qual | lification | n in Natural Sciences 3 | | | | | | | | |
|---------------------|------------------------|------------|--|---|-------------|---------------|--|--|--|--|--|
| mo1 | ECTS 3 | Duration | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | Ü (o) | | - | | | | | | |
| | Method of asses | | | n (approx. 45 to 90 minutes) or | | | | | | | |
| | | | b) log (10 to 20 pages) or | | | | | | | | |
| | | | c) oral examination of one candidate each (20 to 30 minutes) or | | | | | | | | |
| | | | d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a | | | | | | | | |
| | | | | | | | | | | | |
| | | | maximum of 4 hours) | | | | | | | | |
| | | | anguage of assessment: German or English | | | | | | | | |
| | other prerequisit | | | ourse advisory service in advance. | | | | | | | |
| 08-BC-EQN5-152- | | | n in Natural Sciences 5 | | | | | | | | |
| mo1 | | Duration | | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | Ü (o) | | | | | | | | |
| | Method of asses | | a) written examination (approx. 45 to 90 minutes) or | | | | | | | | |
| | | | b) log (10 to 20 pages) or | | | | | | | | |
| | | | c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or | | | | | | | | |
| | | | e) presentation (20 to 30 minutes) or | | | | | | | | |
| | | | f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a | | | | | | | | |
| | | | maximum of 4 hours) | | | | | | | | |
| | | | Language of assessment: German or English | | | | | | | | |
| | other prerequisit | tes | Please consult with course advisory service in advance. | | | | | | | | |
| Thesis Area (15 ECT | S credits) | | | | | | | | | | |
| 08-BA-BC-152-m01 | Bachelor Thesis | in Bioch | nemistry | | | | | | | | |
| | ECTS 12 | Duratior | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | No courses assigned t | | | | | | | | |
| | Method of asses | sment | Bachelor's thesis (50 to 70 pages) | | | | | | | | |
| | | | | ent: German or English | | _ | | | | | |
| | Additional Inform | nation | Time to complete: 10 weeks. | | | | | | | | |
| 08-KOLL-BC-152- | | achelor | Thesis in Biochemistry | | | | | | | | |
| mo1 | ECTS 3 | Duratior | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | K (o) | | | | | | | | |
| | Method of asses | | final colloquium (approx. 30 minutes) | | | | | | | | |
| | | | Language of assessm | Language of assessment: German or English | | | | | | | |