

| Module title   |                              | Abbreviation                         |
|--|------------------------------|--------------------------------------|
| Computer languages and programming 5   |                              | 07-SQF-PRO5-182-m01                  |
| Module coordinator   |                              | Module offered by                    |
| chairperson of examination committee Biologie (Biology)  |                              | Faculty of Biology                   |
| ECTS   | Method of grading            | Only after succ. compl. of module(s) |
| 5  | (not) successfully completed | --                                   |
| Duration   | Module level                 | Other prerequisites                  |
| 1 semester   | undergraduate                | --                                   |
| Contents   |                              |                                      |
| Computer languages and programming using one or more computer languages like Java, C, C++, C#, Python, PHP.  |                              |                                      |
| Intended learning outcomes   |                              |                                      |
| The participants know the basics about computer languages and programming.   |                              |                                      |
| Courses (type, number of weekly contact hours, language — if other than German)  |                              |                                      |
| Ü (3)<br>Module taught in: German and/or English   |                              |                                      |
| Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)  |                              |                                      |
| a) written examination (approx. 45 to 60 minutes) or<br>b) log (approx. 10 to 20 pages) or<br>c) oral examination of one candidate each (approx. 30 minutes) or<br>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or<br>e) presentation (approx. 20 to 30 minutes) or<br>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).<br>Students will be informed about the method and length of the assessment prior to the course.<br>Language of assessment: German and/or English<br>creditable for bonus  |                              |                                      |
| Allocation of places   |                              |                                      |
| 10 places.<br>Should the number of applications exceed the number of available places, places will be allocated as follows:<br>Students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits will be given preferential consideration. Should the module be used in other subjects, there will be two quotas: 95% of places will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits and 5% of places (a minimum of one place in total) will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 60 ECTS credits and to students of the Bachelor's degree subjects Computational Mathematics and Mathematik (Mathematics), each with 180 ECTS credits, as part of the application-oriented subject Biology (as well as potentially to students of other 'importing' subjects). Should the number of places available in one quota exceed the number of applications, the remaining places will be allocated to applicants from the other quota. Should there be, within one module component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in the same procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration.<br>A waiting list will be maintained and places re-allocated as they become available.<br>Selection process group 1 (95%): Places will primarily be allocated according to the applicants' previous academic achievements. For this purpose, applicants will be ranked according to the number of ECTS credits they have achieved and their average grade of all assessments taken during their studies or of all module components in the subject of Biologie (Biology) (excluding Chemie (Chemistry), Physik (Physics), Mathematik (Mathematics)) at the time of application. This will be done as follows: First, applicants will be ranked, firstly, according to their average grade weighted according to the number of ECTS credits (qualitative ranking) and, secondly, according |                              |                                      |

to their total number of ECTS credits achieved (quantitative ranking). The applicants' position in a third ranking will be calculated as the sum of these two rankings, and places will be allocated according to this third ranking. Among applicants with the same ranking, places will be allocated according to the qualitative ranking or otherwise by lot.

Selection process group 2 (5%): Places will be allocated according to the following quotas: Quota 1 (50 % of places): total number of ECTS credits already achieved in modules/module components of the Faculty of Biology; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25 % 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. Quota 3 (25 % of places): lottery.

Should the module be used only in the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits, places will be allocated according to the selection process of group 1.

#### Additional information

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#### Workload

150 h

#### Teaching cycle

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#### Referred to in LPO I (examination regulations for teaching-degree programmes)

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#### Module appears in

First state examination for the teaching degree Grundschule English (2009)  
 First state examination for the teaching degree Grundschule Biology (2009)  
 First state examination for the teaching degree Grundschule Chemistry (2009)  
 First state examination for the teaching degree Grundschule Geography (2009)  
 First state examination for the teaching degree Grundschule Protestant Theology (2009)  
 First state examination for the teaching degree Grundschule German (2009)  
 First state examination for the teaching degree Grundschule History (2009)  
 First state examination for the teaching degree Grundschule History (2015)  
 First state examination for the teaching degree Grundschule Catholic Theology (2009)  
 First state examination for the teaching degree Grundschule Mathematics (2009)  
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 First state examination for the teaching degree Grundschule Physics (2009)  
 First state examination for the teaching degree Grundschule Social Science (2009)  
 First state examination for the teaching degree Grundschule Science of Sport (2009)  
 First state examination for the teaching degree Hauptschule English (2009)  
 First state examination for the teaching degree Hauptschule Biology (2009)  
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 First state examination for the teaching degree Realschule English (2009)  
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 First state examination for the teaching degree Gymnasium English (2009)  
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 First state examination for the teaching degree Gymnasium Science of Sport (2009)  
 First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009)  
 First state examination for the teaching degree Sonderpädagogik Pedagogy of Secondary Education (2009)  
 First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2009)  
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 First state examination for the teaching degree Mittelschule Didactics in Science of Sport (Middle School) (2015)  
 First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Music Education in Middle School (2015)  
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 First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2016)  
 First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2016)  
 Bachelor's degree (1 major) Biology (2017)  
 First state examination for the teaching degree Gymnasium Greek Philology (2018)  
 First state examination for the teaching degree Grundschule Physics (2018)  
 First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2018)  
 First state examination for the teaching degree Realschule Physics (2018)  
 First state examination for the teaching degree Gymnasium Physics (2018)  
 First state examination for the teaching degree Mittelschule Physics (2018)  
 First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2018)  
 First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2018)  
 First state examination for the teaching degree Gymnasium Mathematics (2019)  
 Module studies (Bachelor) Biology (2019)  
 First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Mittelschule German (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2020 (Prüfungsordnungsversion 2015))  
 First state examination for the teaching degree Mittelschule English (2020 (Prüfungsordnungsversion 2016))  
 First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))  
 First state examination for the teaching degree Mittelschule Protestant Theology (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Protestant Theology (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Geography (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Geography (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule History (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Catholic Theology (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

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First state examination for the teaching degree Mittelschule Art Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Science of Sport (2020 (Prüfungsordnungsversion 2015))

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First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

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First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2020)

First state examination for the teaching degree Grundschule Physics (2020)

First state examination for the teaching degree Gymnasium Physics (2020)

First state examination for the teaching degree Realschule Physics (2020)

First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2020)

First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2020)

First state examination for the teaching degree Mittelschule Physics (2020)

First state examination for the teaching degree Grundschule Political and Social Studies (2020)

First state examination for the teaching degree Grundschule Didactics in Political and Social Studies (Primary School) (2020)

First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2020)

First state examination for the teaching degree Sonderpädagogik Didactics in Political and Social Studies (Secondary School) (2020)

First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2020)

First state examination for the teaching degree Mittelschule Didactics in Political and Social Studies (Secondary School) (2020)

First state examination for the teaching degree Mittelschule Political and Social Studies (2020)

First state examination for the teaching degree Gymnasium Political and Social Studies (2020)

Bachelor's degree (1 major) Biology (2021)

First state examination for the teaching degree Grundschule History (2021)

First state examination for the teaching degree Gymnasium History (2021)

First state examination for the teaching degree Realschule History (2021)

First state examination for the teaching degree Mittelschule History (2021)

First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2021)

First state examination for the teaching degree Gymnasium English (2021)

First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)

First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2021)

Bachelor's degree (1 major) Biology (2022)

First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022)

First state examination for the teaching degree Gymnasium Russian (2023)

First state examination for the teaching degree Gymnasium Mathematics (2023)

First state examination for the teaching degree Gymnasium English (2023)

First state examination for the teaching degree Realschule English (2023)

First state examination for the teaching degree Grundschule English (2023)

First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2023)

First state examination for the teaching degree Mittelschule English (2023)

First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2023)

First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2023)

First state examination for the teaching degree Gymnasium Geography (2023)

First state examination for the teaching degree Realschule Geography (2023)

First state examination for the teaching degree Grundschule Geography (2023)



First state examination for the teaching degree Mittelschule Geography (2023)  
 First state examination for the teaching degree Grundschule German (2024)  
 First state examination for the teaching degree Gymnasium German (2024)  
 First state examination for the teaching degree Realschule German (2024)  
 First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2024)  
 First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2024)  
 First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2024)  
 First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2024)  
 First state examination for the teaching degree Mittelschule German (2024)  
 First state examination for the teaching degree Grundschule Music Education in Primary School (2024)  
 First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2024)  
 First state examination for the teaching degree Mittelschule Music Education in Middle School (2024)  
 First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2024)  
 First state examination for the teaching degree Gymnasium Latin Philology (2024)  
 First state examination for the teaching degree Gymnasium English (2024)  
 First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2024)  
 First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2024)  
 First state examination for the teaching degree Grundschule History (2024)  
 First state examination for the teaching degree Gymnasium History (2024)  
 First state examination for the teaching degree Realschule History (2024)  
 First state examination for the teaching degree Mittelschule History (2024)  
 First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2024)  
 First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2024)  
 First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2024)  
 First state examination for the teaching degree Gymnasium Greek Philology (2024)  
 First state examination for the teaching degree Grundschule Art Education in Primary School (2024)  
 First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2024)  
 First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2024)  
 First state examination for the teaching degree Mittelschule Art Education in Middle School (2024)