**Module title**  
Computertools for Molecular Biology

**Abbreviation**  
07-SQF-CTA-152-m01

**Module coordinator**  
holder of the Chair of Bioinformatics

**Module offered by**  
Faculty of Biology

**ECTS**  
2

**Method of grading**  
(Not) successfully completed

**Only after succ. compl. of module(s)**

**Duration**  
1 semester

**Module level**  
undergraduate

**Other prerequisites**

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### Contents

Students know how simple and free tools for molecular biological analysis work.

### Intended learning outcomes

Students will be familiar with the methods discussed in class and will know what problems may be addressed with these methods.

### Courses (type, number of weekly contact hours, language — if other than German)

**V (0.5) + Ü (0.5)**

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)

Written examination or practical examination (approx. 30 minutes)

Language of assessment: German and/or English

Creditable for bonus

### Allocation of places

20 places. Should the number of applications exceed the number of available places, places will be allocated as follows:

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 Biologie (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.

A waiting list will be maintained and places re-allocated as they become available.

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 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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**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) |
| First state examination for the teaching degree Grundschule Music (2009) |
| 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) |
| First state examination for the teaching degree Hauptschule Chemistry (2009) |
| First state examination for the teaching degree Hauptschule Geography (2009) |
| First state examination for the teaching degree Hauptschule Protestant Theology (2009) |
| First state examination for the teaching degree Hauptschule German (2009) |
| First state examination for the teaching degree Hauptschule History (2009) |
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| First state examination for the teaching degree Hauptschule Physics (2009) |
| First state examination for the teaching degree Hauptschule Social Science (2009) |
| First state examination for the teaching degree Hauptschule Science of Sport (2009) |
| First state examination for the teaching degree Realschule English (2009) |
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First state examination for the teaching degree Gymnasium Physics (2009)
First state examination for the teaching degree Gymnasium Russian (2009)
First state examination for the teaching degree Gymnasium Social Science (2009)
First state examination for the teaching degree Gymnasium Spanish Studies (2009)
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)
First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2013)
First state examination for the teaching degree Mittelschule English (2013)
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Bachelor’ degree (1 major) Biology (2015)
First state examination for the teaching degree Grundschule English (2015)
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First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2015)
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First state examination for the teaching degree Grundschule Art Education in Primary School (2015)
First state examination for the teaching degree Grundschule Didactics in Science of Sport (Primary School) (2015)
First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015)
First state examination for the teaching degree Grundschule Music Education in Primary School (2015)
First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2015)
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First state examination for the teaching degree Gymnasium Educational Science (2015)
First state examination for the teaching degree Gymnasium Science of Sport (2015)
First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2015)
First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Primary School) (2015)
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Module description

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First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2015)
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