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Technische Universität Dresden
Faculty of Biology

# Study Regulations for the consecutive Master's degree program Biology in Society

as of May 11, 2021
(translated version)

On the basis of § 36 para. 1 of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony in the version published on January 15, 2013 (SächsGVBl. p. 3), Technische Universität Dresden issues the following Study Regulations as statutes.

**Contents**

## § 1
## Scope of application

On the basis of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony (SächsHSFG) and the examination regulations, these study regulations stipulate the objectives, content, structure and organization of the consecutive Master's program Biology in Society at Technische Universität Dresden.

## § 2
## Objectives of the degree program

(1) Students will possess in-depth knowledge and skills by international standards in genetic, physiological and organismic areas of biology, especially those with societal relevance. Students recognize the professional interdependencies and have deepened their professional and interdisciplinary knowledge and practical skills in selected fields. They are able to investigate scientific questions independently in accordance with the rules of good scientific practice, including planning, conducting and interpreting experiments. Modern methodological skills enable them to work on complex applied biology issues in a scientifically appropriate, well-founded and critical manner. Students are familiar with the rules of science communication and are able to present their methodological and theoretical knowledge accordingly. They contribute as experts to societal discourse and can describe complex issues in simple terms. Furthermore, students are able to independently acquire knowledge through research and thus critically evaluate their own as well as other people's results and findings, challenge them, present them in a scientifically correct manner and discuss them in a differentiated approach. They are also empowered to use their knowledge and problem-solving skills in new and unfamiliar situations. Students possess key professional skills, such as the ability to work in a team, presentation, language and communication skills, critical self-reflection, time management and project planning. Moreover, they are able to make responsible judgments and act responsibly, and are able to critically address issues relevant to society.

(2) Graduates are qualified to begin careers with their in-depth specialist knowledge and practical skills required for professional life combined with their methodical, personal, and social competencies. They are able to nurture interdisciplinary relationships and are qualified to work in highly specialized positions, whether in teaching or research institutions, in research and development departments in industry or public institutions, in government agencies and committees, as well as in journalism. Furthermore, they are prepared for advanced scientific qualification.

## § 3
## Admission requirements

To be admitted to the degree program, candidates must have completed a first recognized vocational university degree acquired in Germany or a qualification from an officially recognized vocational academy in biology or a comparable specialist field. Furthermore, English language proficiency at the advanced level of B2 according to the Common European Framework of Reference for Languages, specialist knowledge, and sufficient motivation for the degree program are required. Proof of this particular suitability is provided by an aptitude assessment in accordance with the aptitude assessment regulations for Biology in Society.

## § 4
## Start and duration of the degree program

(1) The program can be started each winter semester.

(2) The standard period of study is four semesters and includes on-site attendance, self-study, supervised practice periods, and the Master's examination.

## § 5
## Teaching and learning methods

(1) The curriculum is structured in modules. In the individual modules, the course content is taught, consolidated and deepened through lectures, seminars, exercises, practical training, tutorials, student working groups, projects, research internships, research colloquia, field trips, language courses, and self-study.

(2) The individual teaching and learning forms according to para. 1 sentence 2 are defined as follows:

1. Lectures introduce the subject areas of the modules, address the central themes and structures of the subject area in a coherent presentation, and provide an overview of the current state of research.
2. Seminars allow for the application of the subject matter in exemplary sub-areas as well as the development of methodical, analytical and communicative competences. Students are enabled to familiarize themselves under supervision in a selected area of interest on the basis of specialist literature or other material, to report on the results of their work, to discuss them within the group and / or to present them in writing.
3. Exercises serve to apply the subject matter in exemplary sub-areas.
4. Practical training serve the application of the subject matter taught and the acquisition of further practical skills, they support the combination of theory and practice, and explore specialist topics while considering interdisciplinary research questions.
5. Tutorials are courses designed to provide support for students. In tutorials, students reflect on issues, approaches to solutions, and results of their self-study with a student tutor and receive individual feedback.
6. Student working groups are courses designed for students to introduce and immerse themselves in the methods of scientific work. They encourage holistic and independent learning in a team and foster creativity.
7. Projects support the combination of theory and practice and explore particular topics while including interdisciplinary issues of the professional field. Projects allow students to apply and deepen their methodological and social skills in particular.
8. Research internships serve the application of the taught subject matter and the acquisition of deepened practical skills as well as the independent realization of a research project. In the ongoing research process, students are able to define, defend, and subsequently conduct and solve research tasks on their own under supervision.
9. Research colloquia serve as a forum for lecturers and students to exchange ideas about project work, study results and other research work.
10. Field trips are guided by scientists and take students to places of learning outside the university, enabling them to thoroughly explore relevant subject-specific issues in nature and society.
11. Language courses convey and hone knowledge, skills and abilities in a foreign language. They foster the development of communication and intercultural competences in academic and professional contexts, as well as in everyday situations.
12. Through self-study, students independently consolidate and deepen their knowledge of the course content.

## § 6
## Structure and organization of the degree program

(1) The program is organized in modules. The curriculum is divided into three semesters. The fourth semester is dedicated to the preparation of the Master's thesis including the colloquium. The third semester is particularly suitable for a temporary stay at another university (mobility window). Part-time study is possible in accordance with the regulations on part-time study.

(2) The degree program comprises ten modules, with the “Lab Rotation Basics” and “Lab Rotation Advanced” modules as well as the “General Qualifications” and “Skills” modules being designed with elective compulsory content, enabling the student to choose their focus.

(3) Qualification objectives, contents, teaching and learning methods included, requirements, applicability, frequency, workload, and duration of the individual modules are all listed in the module descriptions (Annex 1).

(4) The courses are held in English. If, according to the module description, a module primarily serves to acquire foreign language qualifications, the respective foreign language can also be the language of instruction.

(5) The appropriate allocation of the modules to the individual semester, the observance of which makes it possible to complete the program within the standard period of study, as well as the type and scope of the respective courses included, and the number and standard time of the required study achievements and examined assessments are defined in the study schedule attached (Annex 2), or in an individual study schedule for part-time studies approved by the faculty.

## § 7
## Content of the degree program

(1) Biology in Society is a research-oriented Master's degree program.

(2) The Master's program Biology in Society covers biological facts, methods and concepts but also the societal consequences resulting from the biological conditions. Course content includes human evolution, human behavior, and human ecology, including relevant aspects of population genetics and the biology of disease. In addition, the scientific method represents a central approach of the degree program and its relevance to ethical, administrative, economic, and communication aspects within biology. Furthermore, the degree program includes modern knowledge on the economy of livestock, wild animals and cultivated plants, as well as methods of breeding and other genetic modifications. Further content of the course includes fundamentals and current topics in developmental biology and genetics, evolutionary and reproductive biology, insect research, physiology and endocrinology. In addition, the program includes Lab Rotations, which provide detailed insights into current research and other work areas in modern biology. The program covers fundamental and current biological work ethics and laboratory methods. It comprises the presentation and handling of science communication methods including popular science articles, fact check reviews, and methods of science evaluation. The program also includes methods of data analysis such as test statistics and bioinformatics, as well as ethical and legal aspects of biology-related issues in society. This encompasses methods of laboratory animal science as well as up-to-date methods used in modern research areas, including microscopy, molecular biology or genetics. General qualifications as well as interdisciplinary content or languages are also part of the program.

## § 8
## Credit points

(1) ECTS credit points document the average workload of the students and their individual study progress. One credit point corresponds to a 30-hour workload. Normally, 60 credit points are awarded per academic year, i.e. 30 credit points per semester. The total workload for the program corresponds to 120 credit points and comprises the teaching and learning methods according to type and scope stipulated in the module descriptions, the study achievements and examined assessments, the Master's thesis, and the colloquium.

(2) The module descriptions indicate the number of credit points that can be earned by each module. Credit points are awarded upon passing the module examination. § 29 of the examination regulations shall remain unaffected.

## § 9
## Academic advisory and counseling service

(1) General advice will be provided by the Central Student Information and Counseling Service at TU Dresden. It covers questions regarding study options, enrollment modalities and general student affairs. Subject-specific advice during studies will be provided by the Academic Advisory Service of the Faculty of Biology. This subject-specific advisory service assists students with regard to the design of their studies.

(2) At the beginning of the third semester, each student who has not yet provided proof of academic performance shall make use of the subject-specific advisory services.

## § 10
## Changes to module descriptions

(1) In order to amend to changed conditions, module descriptions may be changed in a simplified procedure in order to optimize study organization, with the exemption of the fields "Module name", "Qualification objectives", "Contents", "Teaching and learning methods", "Requirements for earning credit points", "Credit points and grades" as well as "Module duration".

(2) In a simplified procedure, the Faculty Board will adopt the amendments to the module descriptions upon proposal of the Academic Affairs Committee. The amendments shall be published as is customary at the faculty.

## § 11
## Entry into force and publication

(1) These Study Regulations shall enter into force on the day following their publication in the Official Announcements of TU Dresden.

(2) They apply to all students enrolled in the Master's program in Biology in Society in the 2021/2022 winter semester or later.

Issued based on the resolution of the Faculty Board of the Faculty of Biology as of February 24, 2021, and the approval of the University Executive Board as of April 20, 2021.

Dresden, as of May 11, 2021

The Rector
of Technische Universität Dresden

Prof. Dr. Ursula M. Staudinger

**Annex 1: Module descriptions**

| **Module number** | **Module name** | **Responsible lecturer** |
|---|---|---|
| BIO-BS-71P01 | Biology and Human Society | Prof. Dr. Oliver Zierau |
| **Qualification objectives** | After completing the module, students will have an advanced understanding of what influences biology has on society, including the evolutionary origins of humans and their behavior, and human health problems in the 21st century resulting from changing lifestyles. Students will be able to address and present selected issues using internationally published results. Students will be able to apply and communicate the scientific concepts of the module to complex contexts of demands and to understand non-biological aspects of of society (culture, economy, politics). | |
| **Content** | The module includes the basics of human evolution, migration and population genetics, and the human genome. It further covers the biological roots of human behavior, human ecology, and the biology of the major civilization diseases of the 21st century. The influence of societal aspects (such as cultural, economic, and political influences) on biology is also included in the module. | |
| **Teaching and learning methods** | The module comprises lecture (4 hours per week), exercise (2 hours per week), seminar (2 hours per week) and self-study. | |
| **Prerequisites for participation** | Knowledge of human biology and evolution at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. The module is a prerequisite for participation in the modules Genetics and Developmental Biology, Organismic Zoology as well as Physiology and Endocrinology. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists a portfolio equating to 30 hours. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each winter semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-71P02 | Science in Society | Prof. Dr. Klaus Reinhardt (Klaus.reinhardt@tu-dresden.de) |
| **Qualification objectives** | Students use the scientific method (evidence, hypotheses) as a routine way of thinking. They are able to apply the most important statistical evaluation techniques in biology and to assess their correct application to third parties. Students will be able to analyze debates relevant to biology and society by themselves and assess, evaluate, and present their evidence. They understand the most important techniques of science evaluation, can analyze, perform and evaluate the communication of scientific results and their validity within the scientific community and the public. They have a view of the organization of citizen science projects. | |
| **Content** | The content of the module consists of the presentation of socially relevant ethical, legal and administrative aspects of biology, including national, EU and international animal welfare law, genetic engineering law and related aspects. The module includes the quality of different types of scientific evidence, main methods of experimental design and statistical analysis (including test statistics, meta-analyses, text mining and bioinformatics). The module covers current controversies in society relevant to biology and their evidence and techniques of communication within science, society, and citizen science. | |
| **Teaching and learning methods** | The module comprises lecture (4 hours per week), exercise (1 hour per week), seminar (1 hour per week) and self-study. | |
| **Prerequisites for participation** | Knowledge of statistics and bioinformatics at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. The module is a prerequisite for participation in the modules Genetics and Developmental Biology, Organismic Zoology und Physiology as well as Endocrinology. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a non-public oral examination lasting 30 minutes, which takes place as a group examination. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each winter semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-71P03 | Economically important animals and plants | Prof. Dr. Klaus Reinhardt (Klaus.reinhardt@tu-dresden.de) |
| **Qualification objectives** | After completing the module, the students know the economically most important animals and plants, can estimate the economic importance of wild animals, pets, or farm animals. Students can reproduce the methods of genetic modification of animals and plants as well as infer and evaluate risk and ethical aspects. The students are able to summarize the literature on a subfield in a scientifically manner ("review"). | |
| **Content** | Contents of this module are the world's most important economically used animals, wildlife, as well as plants and their compounds. The module further covers the economic importance of these organisms as well as detailed methods and the genetic consequences of their breeding modifications and genetic engineering changes. The module also covers ethical, safety and consumer protection aspects of genetically modified animals and plants. Economically harmful and beneficial aspects, such as animal and plant parasitism, disease transmission or pollination are also part of the module. | |
| **Teaching and learning methods** | The module comprises lecture (4 hours per week), seminar (1,5 hours per week) and self-study. | |
| **Prerequisites for participation** | Knowledge of zoology and botany at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. The module is a prerequisite for participation in the modules Genetics and Developmental Biology, Organismic Zoology as well as Physiology and Endocrinology. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a portfolio equating to 70 hours. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each winter semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-72P04 | Genetics and Developmental Biology | Prof. Dr. Christian Dahmann (christian.dahmann@tu-dresden.de) |
| **Qualification objectives** | Students understand the essential principles of the development of multicellular organisms and can independently analyze, evaluate and present studies in the field of developmental biology. They know essential techniques of molecular genetics and their fields of application. | |
| **Content** | Contents of the module are cell differentiation, pattern formation and formation of shape during the development of multicellular organisms. Contents are furthermore methods for analysis and editing of genes and genomes. | |
| **Teaching and learning methods** | The module comprises lecture (4 hours per week), practical training (2 hour per week), seminar (1 hour per week), and self-study. | |
| **Prerequisites for participation** | Participants require skills acquired in the modules Biology and Human Society, Science in Society as well as Economically important animals and plants. Knowledge of molecular genetics at the undergraduate level is required. Literature: Alberts et al., Molecular Biology of the Cell, Garland Science, latest edition. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a written test lasting 90 minutes. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each summer semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-72P05 | Organismic Zoology | Prof. Dr. Klaus Reinhardt (Klaus.reinhardt@tu-dresden.de) |
| **Qualification objectives** | After completing the module, students have methodological and theoretical knowledge in evolutionary and reproductive biology at an international level. They can contribute to social discourse as experts and present complex issues in a simple manner. Students can practically apply their theoretical knowledge of genetic forensics techniques. They also have advanced knowledge in other zoological fields such as entomology, biomaterials, biomimetics. | |
| **Content** | Contents of the module include advanced concepts in evolutionary biology as well as basic and advanced concepts in reproductive biology and its essential instruments. The module further covers the societal relevance and (non)application of these sciences in fields such as resistance evolution, evolutionary medicine, gender debate or artificial reproductive technologies on humans. Additional contents are theory and practice of the application of genotyping of food and forensic samples, their evaluation and limitations, as well as current topics and methods in organismal zoology, such as biological materials or insect research. | |
| **Teaching and learning methods** | The module comprises lecture (4 hours per week), practical training (2 hour per week), seminar (1,5 hours per week), and self-study. | |
| **Prerequisites for participation** | Participants require skills acquired in the modules Biology and Human Society, Science in Society as well as Economically important animals and plants. Knowledge of zoology, entomology, evolutionary and molecular biology, and genetics at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a portfolio equating to 50 hours and a non-public oral examination lasting 30 minutes as an individual examination and, which must both be passed. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade is calculated from the weighted average grade of the examined assessments. The grade of the portfolio is weighted one times, the grade of the oral examination three times. | |
| **Module frequency** | The module is offered each summer semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-72P06 | Physiology and Endocrinology | Prof. Dr. Stefanie Schirmeier (Stefanie.Schirmeier@tu-dresden.de) |
| **Qualification objectives** | Students can explain the most important processes of animal and human physiology and metabolism, and practically apply the theoretical principles of endocrinology and doping research. They are able to publicly discuss the economic and political consequences of issues in physiology and endocrinology, such as nutritional diseases, doping use, or hormone pollution. Furthermore, students will be able to write professional texts in the field of physiology and endocrinology on their own. Students will have an understanding of related fields of medicine, cultural studies, and economics. | |
| **Content** | The module includes physiology with a focus on animal organisms. Metabolism and endocrinology, doping, endocrine disruptors, drugs and their toxicological principles, phytopharmacology as well as animal experimentation are part of the module. The module also includes cultural, economic and political aspects of metabolism and endocrinology. | |
| **Teaching and learning methods** | The module comprises lecture (4 hours per week), practical training (2 hour per week), seminar (2 hours per week), and self-study. | |
| **Prerequisites for participation** | Participants require skills acquired in the modules Biology and Human Society, Science in Society as well as Economically important animals and plants. Knowledge of human physiology, metabolism, and endocrinology at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a complex assessment equating to 70 hours. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each summer semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-71P07 | Lab Rotation Basics | Dr. Alexander Froschauer (alexander.froschauer@tu-dresden.de) |
| **Qualification objectives** | Students are able to practically apply their professional and methodological knowledge and have basic knowledge to complete research projects. They are able to complete, analyze and present a research project on their own and in compliance with the rules of scientific professionalism. They know the processes and contents of research in a research group. Students will have personal and social skills such as communication and teamwork skills, presentation skills, critical self-reflection, work organization, time management and project planning. | |
| **Content** | The module includes, at the student's option, a research internship in a nationally or internationally research group from one of the three areas: Organismal Zoology and Botany, Endocrinology and Physiology, or Genetics and Developmental Biology. | |
| **Teaching and learning methods** | The module comprises research internship (6 hours per week), and self-study. | |
| **Prerequisites for participation** | Knowledge of zoology and botany at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a portfolio equating to 140 hours. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each winter semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-71P08 | Lab Rotation Advanced | Dr. Alexander Froschauer (alexander.froschauer@tu-dresden.de) |
| **Qualification objectives** | Students have developed their methodological and practical skills and have advanced knowledge of research and can independently complete, analyze and present a research project while following to the rules of scientific professionalism. They know the processes and contents of research in a research group. Students have developed their personal and social skills such as communication and teamwork skills, presentation skills, critical self-reflection, work organization, time management and project planning. | |
| **Content** | The module includes, at the student's option, a research internship in a nationally or internationally operating government agency or company, or a nationally or internationally research group from one of the three areas: Organismal Zoology and Botany, Endocrinology and Physiology, or Genetics and Developmental Biology. A different area than in the Lab Rotation Basics module must be chosen. | |
| **Teaching and learning methods** | The module comprises research internship (6 hours per week), and self-study. | |
| **Prerequisites for participation** | Knowledge of zoology and botany at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a portfolio equating to 140 hours. | |
| **Credit points and grades** | Participants can earn ten credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each winter semester. | |
| **Workload** | The workload comprises a total of 300 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-BS-71P09 | Skills | Dr. Frank Pfennig (frank.pfennig@tu-dresden.de) |
| **Qualification objectives** | Students will be able to apply exemplarily highly specialized methods and concepts of a specific field of biology. They are able to abstract and apply their acquired knowledge to other biological fields. In addition, they can discuss subject-specific topics with others and deal with complex issues in a scientific, well-founded and critical manner. | |
| **Content** | Contents of the module are highly specialized application or analysis methods or concepts of a field of biology, for example genetic, microscopic, statistical or chemical methods or field trip. | |
| **Teaching and learning methods** | The module comprises lecture, exercise, seminar, practical training, tutorial, research internship, research colloquium, student working groups, project, field trips, and language courses totalling 4 hours per week and self-study. The courses are to be chosen from the catalog "Skills" of the Faculty of Biology. This catalog including the information on the required examinations will be announced at the beginning of each semester by the Faculty. | |
| **Prerequisites for participation** | Knowledge of zoology, botany or genetics at the undergraduate level is required. | |
| **Applicability** | This module is a compulsory module in the Master's degree program Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of a term paper equating to 40 hours. | |
| **Credit points and grades** | Participants can earn five credit points for this module. The module grade corresponds to the grade of the examined assessment. | |
| **Module frequency** | The module is offered each winter semester. | |
| **Workload** | The workload comprises a total of 150 hours. | |
| **Module duration** | The module comprises one semester. | |

| Module number | Module name | Responsible lecturer |
|---|---|---|
| BIO-MA-AQUA1 | General Qualifications | Dr. Jannette Wober (jannette.wober@tu-dresden.de) |
| **Qualification objectives** | The students are able to engage with an area of socially relevant topics in a critical way or they have basic foreign language as well as communicative skills. The acquired linguistic, social and personal knowledge and skills enable them to engage in intercultural discourse and to judge and act in a socially responsible manner. | |
| **Content** | The module includes, at the student's choice, interdisciplinary content on topics related to life in a pluralistic and open-minded society, such as sustainability, diversity, globalization, interculturality, digitalization, culture, democracy, or similar topics. This can also include learning a language. | |
| **Teaching and learning methods** | The module comprises lecture, exercise, seminar, practical training, tutorial, research colloquium, student working groups, project, field trip, and language course totalling 4 hours per week and self-study. The courses are to be chosen from the catalog "General Qualifications" of the Faculty of Biology. This catalog including the information on the required examinations will be announced at the beginning of each semester by the Faculty. | |
| **Prerequisites for participation** | There are no specific prerequisites for participation. | |
| **Applicability** | This module is a compulsory module in the Master's degree programs Molecular Biosciences and Productive Biosystems and Biology in Society. | |
| **Requirements for earning credit points** | Credit points are earned after passing the module examination. The module examination consists of an ungraded examination assessment specified in the "General Qualifications" catalog. | |
| **Credit points and grades** | Participants can earn five credit points for this module. The module examination will only be graded as either "pass" or "fail". | |
| **Module frequency** | The module is offered each semester. | |
| **Workload** | The workload comprises a total of 150 hours. | |
| **Module duration** | The module comprises one semester. | |

**Annex 2: Study schedule**

with type and scope of courses given in hrs/week as well as required work, the type, scope and format of which can be found in the module descriptions

| Module number | Module name | 1st Semester | 2nd Semester | 3rd Semester (M) | 4th Semester | CP |
|---|---|---|---|---|---|---|
| | | L/E/S/P | L/E/S/P | L/E/S/P/T/RP/RI/SW/Pr/F/LC | | |
| BIO-BS-71P01 | Biology and Human Society | 4/2/2 Ex | | | | 10 |
| BIO-BS-71P02 | Science in Society | 4/1/1 Ex | | | | 10 |
| BIO-BS-71P03 | Economically important animals and plants | 4/0/1,5 Ex | | | | 10 |
| BIO-BS-72P04 | Genetics and Developmental Biology | | 4/0/1/2 Ex | | | 10 |
| BIO-BS-72P05 | Organismic Zoology | | 4/0/1,5/2 2xEx | | | 5 |
| BIO-BS-72P06 | Physiology and Endocrinology | | 4/0/2/2 Ex | | | 10 |
| BIO-BS-71P07 | Lab Rotation Basics | | | 0/0/0/0/0/6/0/0/0/0/0 Ex | | 5 |
| BIO-BS-71P08 | Lab Rotation Advanced | | | 0/0/0/0/0/6/0/0/0/0/0 Ex | | 10 |
| BIO-BS-71P09 | Skills[1] | | | */*/*/*/*/*/*/*/*/*/0 Ex | | 10 |
| BIO-MA-AQUA1 | General Qualifications[2] | | | */*/*/*/*/0/*/*/*/*/* Ex | | 10 |
| | | | | | Master Thesis Colloquium | 29 1 |
| **CP** | | 30 | 30 | 30 | 30 | 120 |

* depending on choice made by the student

[1] The module compromises L, E, S, P, T, RP, RI, SW, Pr or F totalling 4 hours per week according to the catalog Skills.

[2] The module compromises L, E, S, P, T, RI, SW, Pr, F or LC totalling 4 hours per week according to the catalog General Qualifications.

| | |
|---|---|
| M | Mobility window according to § 6 para. 1 sentence 3 Study Regulations |
| CP | Credit Points |
| L | Lecture |
| E | Exercise |
| S | Seminar |
| P | Practical training |
| T | Tutorial |
| RI | Research internship |
| RC | Research colloquium |
| SW | Student working groups |
| Pr | Project |
| F | Field trips |
| LC | Language course |
| Ex | Examination(s) |