universität freiburg



# Module Handbook

## BA/BSc Program
## Liberal Arts And Sciences
## Study and Examination Regulations 2026

UNIVERSITY
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FREIBURG

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# 1 General Information

This handbook provides all necessary information on the modules of the four-year Bachelor program “Liberal Arts and Sciences” (LAS). The legal foundation for the LAS program is provided in the Study and Exam Regulations that were passed (in German) by the University Senate in its meeting on February 25, 2026 (see Official Bulletins Vol. 57, No. 8, pp. 37-67). Courses that can be taken to fulfill these modules are listed in the LAS Course Catalog of the respective semester.

This Module Handbook was updated on July 8, 2026.

## 1.1 Overview

| | |
|---|---|
| **Subject** | Liberal Arts and Sciences |
| **Degree** | Bachelor of Arts, Bachelor of Sciences (depending on choice of Major) |
| **Standard period of study** | 8 semesters (4 years) |
| **Form of study** | full-time studies |
| **Number of ECTS credits required** | 240 ECTS (Core: 60, Major: 120, Electives: 60) |
| **Faculty** | Philosophical Faculty |
| **Institute** | University College Freiburg |
| **Website** | uni-freiburg.de/ucf/las/ |
| **Language** | English |
| **Admission requirements** | general higher education entrance qualification (allgemeine Hochschulreife), English proficiency at min. B2 level (acc. to the CEFR), essay, letter of motivation |
| **Program start** | Winter semester |

## 1.2 Profile of the Degree Program

The Liberal Arts and Sciences Bachelor Program (LAS) is a four-year, English-taught study program in the tradition of liberal education. Students earn 240 ECTS across the Core (60 ECTS), their Major (120 ECTS), and the Electives (60 ECTS)—the three basic elements of this interdisciplinary study program. The Core includes basic and advanced academic skills, reflections on knowledge and science, and a curriculum on responsibility and leadership. In the Electives, students undertake courses, including studies abroad, and projects to deepen and/or broaden their studies and to enhance their profile. The Majors provide an in-depth education in an interdisciplinary academic field. At the end of the Foundational Year and after having taken three Introductions, students choose one of the following:

- Culture and History
- Governance
- Life Sciences
- Environmental and Sustainability Sciences

Depending on their choice of Major, students graduate with a Bachelor of Arts degree (with the Majors Culture & History and Governance) or a Bachelor of Science degree (with the Majors Life Sciences and Environmental & Sustainability Sciences) from the University of Freiburg.

LAS is offered by the University College Freiburg (UCF), founded in 2012 as a platform for interdisciplinary and international teaching across faculties at the University of Freiburg with a clear mission: As an interdisciplinary learning community, UCF encourages open exploration and productive disagreement. We – students, academic and administrative staff – cultivate trust, courage, and commitment, the bedrocks of solution-oriented collaboration in academic work and in life. We value autonomy and reflection. We create an exciting environment for rigorous and serendipitous scholarship and life-long development. We encourage intellectual curiosity to better understand the world and imagine ways to improve it.

### 1.3 Educational Goals

The LAS program aims to educate students for maturity and responsibility, that is to enable them to think autonomously and reflectively and to approach complex problems with intellectual curiosity from multiple perspectives. Rather than aiming to prepare students for a specific profession, it equips them for a range of careers in a changing labor market in and outside academia. For students interested in an academic career, it provides an excellent basis for entrance into (specialized as well as interdisciplinary) master and PhD programs.

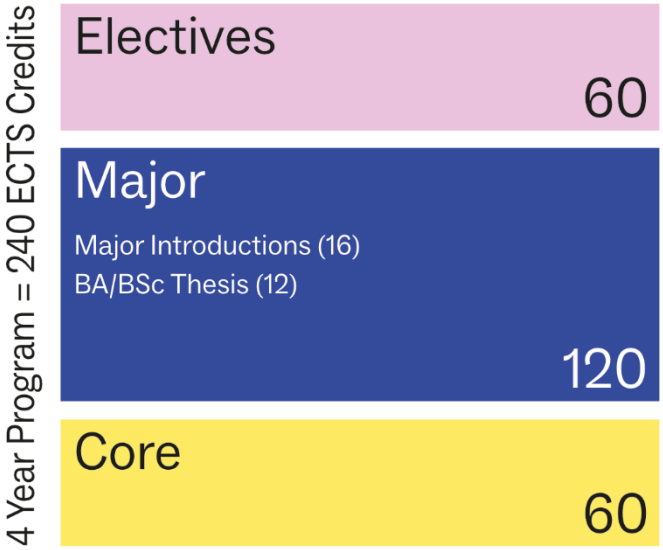
The primary educational goals of LAS are rooted in the tradition of liberal education. They align with the educational goals of the University of Freiburg and the mission of University College Freiburg. The pro-gram aims to develop and cultivate students'

- intellectual curiosity and eagerness for lifelong learning,
- interdisciplinary versatility and ability to approach complex questions from multiple points of view,
- specialized academic knowledge and disciplinary methodological skills,
- critical thinking and ability to learn in interactions with others,
- academic key skills alongside an understanding of good scientific practice and an ability to reflect critically on science and knowledge,
- engaged citizenship and responsibility in a global world requiring communication across disciplines, intercultural awareness, and reflexivity.

### 1.4 Curriculum Design and Qualification Objectives

The design of the LAS curriculum is innovative, especially in the context of German higher education. It combines two sets of seemingly antagonistic principles:

- Depth & Breadth: Freiburg's LAS program combines academic specialization (Major) with an interdisciplinary foundation and reflections of the social and political role of sciences and scientific knowledge (Core and Electives)
- Structure & Freedom: Freiburg's LAS program combines an educational framework of required Modules (Core Modules and basic Major Modules) with a high degree of freedom for students to develop their own study profile (advanced Major Modules and Electives)




The **Core** (60 credit points) is a distinctive feature of the Freiburg LAS Bachelor Program and is closely linked to the two UCF Professorships in Sciences and Technology Studies and Epistemology and Theory of Science. It is compulsory and encompasses basic and advanced academic skills, reflections on knowledge and science, and a curriculum on responsibility and leadership. Thus, it forms the shared foundation of the LAS Bachelor Program.

After the foundational year, students specialize in one of four **Majors** (see below). They are linked to the research and teaching profile of the University of Freiburg and range from the humanities to the social and natural sciences. Students are required to take introductory courses to three Majors before they choose one. Students earn 120 credit points in their Major, including 16 credit points from the introductions to Majors they did not choose. Each Major has compulsory basic Modules and offers choice between different courses at the level of the advanced Modules. The Bachelor thesis (12 credit points) is part of the Major. Depending on the Major, students graduate with a Bachelor of Arts or a Bachelor of Sciences.

| **Major** | **General Focus** | **Disciplinary Focus** | **Themes in Advanced Modules** |
|---|---|---|---|
| Culture and History (BA) | Theoretically informed, methodologically sound, and empirically-based interpretation of cultures and histories | History, Philosophy, Anthropology, Cultural Studies, and the study of aesthetics and the arts (e.g., Literary Studies, Arts History, Film Studies) | Museum studies, gender / sexuality / queer studies, urban planning, science and technology studies, journalism |
| Environmental and Sustainability Sciences (BSc) | Exploration of our planet earth and the interaction between human activities and the environment for more sustainability | Environmental Sciences, Sustainability Sciences, Earth Sciences, Ecology, Biology | Human–environmental interactions, environmental governance, environmental engineering, sustainable development and socio-technical systems. |

| | | | |
|---|---|---|---|
| Governance (BA) | Study of social realities; negotiation and achievement of common goals in communities, states, and markets | Political Sciences, incl. International Relations, Law, Economics, Public Policy, Area Studies | Environmental governance, diplomacy, social theory, diversity |
| Life Sciences (BSc) | The human body and the human mind | Physiology, Cell Biology, Biochemistry | Neuroscience, Biomedicine, Global Health, Biomedical Technology |

Students use the **Electives** (60 credit points) to deepen, focus, or broaden their studies – depending on their intellectual interests and plans beyond UCF. They can explore, shape their academic profiles, create a "Minor" and/or supplement their Major. They take courses from other LAS Majors and choose from a wide range of offerings at the University of Freiburg. In addition, students can accommodate study abroad, language requirements, internships, and special projects in the Electives.

### 1.5 Special Features of the LAS Program

Further noteworthy features of the LAS program include:

- a Foundational Year that provides a broad and structured starting point for students and establish-es a shared basis of skills and knowledge. Students (a) acquire academic key skills, (b) learn to reflect on knowledge from different perspectives, (c) develop their capacities to act responsibly in academic, professional, and personal contexts, and (d) gain a solid overview over the Majors be-fore they chose which one they want to pursue,
- an opportunity for internships and reflecting on the experience from an academic perspective,
- the possibility to pursue their own projects as Supervised Independent Studies,
- a dual degree program with the University College Maastricht,
- a broad variety of international partner institutions to study abroad,
- individual support via a Peer Advising and Academic Advising scheme,
- opportunities to get involved in the EUCOR and EPICUR networks.

## 2 Teaching Formats

Instructors in the LAS program offer courses in various formats, designed to best further their particular learning goals and teaching methods. Typical teaching formats are:

**Lectures** (L), sometimes also plenaries, serve as introductions and overviews of topics against the backdrop of current academic debates. The instructors present the course material primarily as a lecture with the support of media (presentations, video or audio examples).

**Seminars** (S) deal with selected topics in depth. The central element of seminars is discussion, in which students engage with the respective topic in an argumentative manner under the guidance of the teacher. **Senior seminars** are seminars designed for advanced students with prior knowledge of the seminar topic.

**Workgroups** (W), sometimes also tutorials, usually complement other courses (often lectures) by offering space for in-depth discussions of specific topics from the mother-course, or for students to work on individual or group assignments.

**Excursions** (E) complement seminars and offer students the opportunity to either apply contents they have previously learned in class or to discover knowledge through observation that will later be tested and substantiated in the classroom. In some cases, excursions are offered as independent features that fulfil more advanced Major modules or can be accredited in the electives.

**Laboratory Internships** (LI) are learning formats that students organize independently in a laboratory of their choice. They contain practical work in a research unit and a report on the contents and how they align with the learning goals.

**Colloquia** (C) serve as forums for academic discussion of research work. Typically formats include discussions of recent research literature, presentations by PhD candidates and established scientists of their current research topics, or presentation by students about their own projects.

## 3 Examination Formats

The LAS program includes a variety of examination formats. For each module, the Module Handbooks specifies how students can earn ECTS points through examinations (Prüfungsleistungen) and pass/fail examinations (Studienleistungen). The most common examination formats, grouped by examination types, are:

| **Type of examination** | **Possible formats** |
|---|---|
| Written examination | open-book exam; take-home exam; e-exam; proctored written exam; ... |
| Oral examination | oral exam (assessment interview) |
| Oral presentation | oral presentation; poster presentation;, poster conference; debate; ... |
| Written assignment | portfolio; seminar paper; written report; excursion report; thesis paper; preparation of a sample solution; written discussion of a problem case; course session protocol; lab protocol; description of an experiment; paper review; poster;... |
| Practical work | conducting experiments; developing software programs; creating videos; critically reflecting on observations; completing objective structured practical examinations; preparing, conducting, and reflecting on seminar sessions; completing simulation exercises; completing examinations with multiple stations; designing and recording a podcast; practical portfolio; … |

A graded examination may consist of different components, so called **continuous assessments**. A module may for instance be completed with a graded oral presentation and a graded written assignment. The weighting of the grades received for the single components are – where possible – specified in this Module Handbook. **If multiple options for an examination are given in this handbook, the exact details are listed in the Course Catalog**.

# 4 Core Modules

| 4.1 English Academic Writing | | | 00LE62MO-LAS26-2120 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Winter Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format | Seminar | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students …<br>▪ have foundational knowledge of writing in educational contexts;<br>▪ have advanced English language skills. | | |
| Module content & objectives | | | |
| The module is designed to introduce students to the essentials of English academic writing. Its objective is to explore how writing is not simply a passive medium of communication but also a social activity that involves many actors and has multiple effects in the world.<br>In the first part, students will identify academic discourse and the features of academic writing on a micro-level They will learn how to write structured paragraphs and how to present their research – in the form of summary, paraphrase, and quotation – with academic integrity.<br>In the second part, we will explore critical reading and writing with a focus on diverse academic genres and their prevalence in different disciplines. Over the second part, students will focus on a specific topic and practice two genres of academic writing. They will gain experience with different stages of the writing process: preparatory writing, research, outlining, drafting, and revising in progressive stages. | | | |
| Learning Goals | | | |
| Upon successful completion of this module, students are able to…<br>1. identify, analyze, and evaluate academic texts<br>2. use outside sources appropriately with academic integrity,<br>3. write persuasively and critically,<br>4. think of writing as a process with multiple stages, including preparation, composition, and revision,<br>5. give appropriate attention to context – including audience, situation, genre, and discipline – in writing. | | | |
| Graded Examination | | | |
| Three written assignments (rhetorical analysis 25%, contextual analysis 35%, position paper 40%, not to exceed 5,000 words total) based on independent research and developed over multiple stages. | | | |
| Pass/Fail Examination | | | |
| Attendance in line with the LAS policy and interaction with other participants' writing. Written assignments. | | | |

| 4.2 Research and Presentation | | | 00LE62MO-LAS26-2110 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Winter Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Lecture and Seminar | Language | English |
| Module Coordinator | Dr. Simon Büchner | | |
| Prerequisites | None | | |

**Module content & objectives**

The module covers two basic skills of scholarly work: literature research and presentation of a topic in a talk. It will impart theoretical knowledge on the skills while at the same time practice them on current complex problems. Students will learn how to independently research literature, how to summarize its content, how to use it in an essay, and how to present a topic to a particular audience.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. identify and classify scholarly and non-scholarly texts,
2. find literature on a particular topic in libraries, search engines and literature data bases,
3. understand and summarize simple scholarly texts,
4. present a topic to peers within a given time frame.

**Graded Examination**

Oral presentation of a topic (30%) and an annotated bibliography of no more than 2,000 words (70%).

**Pass/Fail Examination**

Attendance in the seminars in line with the LAS policy.

| 4.3 Statistics | | | 00LE62MO-LAS26-2130 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Summer Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Lecture, Seminar and Workgroup | Language | English |
| Module Coordinator | Dr. Sebastian Gehart | | |
| Prerequisites | None | | |

**Module content & objectives**

The module introduces the usage of numerical data and techniques in scientific, as well as non-scientific work. Students learn different forms of data illustration and falsification. They procure basic theoretical and practical knowledge of probability theory and descriptive and analytical statistics.

Basic theoretical knowledge of probability theory and descriptive and analytical statistics are presented during lectures and practiced in exercise tutorials. The acquired knowledge is put in context, discussed and applied in workgroups and software tutorials using the statistics package R.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. interpret and analyze numerical and graphical information,
2. illustrate numerical data meaningfully,
3. recall key concepts of probability theory, descriptive and inference statistics,
4. apply basic descriptive and analytical statistics to different sets of data.

**Graded Examination**

A formal written report on a quantitative data analysis (max. 5,000 words).

**Pass/Fail Examination**

Attendance in the seminars and workgroups in line with LAS policy; quantitative student project; students need to attain 50% of all possible points awarded for correct answers in the exercise sheets.

| 4.4 Advanced Academic Skills | | | 00LE62MO-LAS26-2140 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Summer Semester | Year of Studies | 2-3 |
| Contact Hours | 1 SWS (à 45 min) | Credit Points | 2 |
| Workload | 60h (15h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students …<br>▪ have applied the basic academic skills learned during the first year in other seminars. | | |

**Module content & objectives**

This module builds upon the contents of the basic academic skills courses English Academic Writing, Research and Presentation and Statistics. Students may choose between different options, such as Writing Lab, Argumentation and Numerical Visualization. The courses will refresh the respective skills based on the experience students have had after the foundational year. In a second part, participants will develop advanced and further competences in each section and apply it to material from their studies.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. understand different levels of academic skills,
2. apply advanced academic skills to diverse situations and contexts,
3. develop self-awareness regarding their own academic habits, e.g. in relation to the different stages of written or oral expression.

**Graded Examination**

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**Pass/Fail Examination**

Attendance in line with the LAS policy and various assignments to be detailed in the Course Catalog.

| 4.5 Knowledge in Context | | | 00LE62MO-LAS26-2230 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Winter Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Lecture and Seminar | Language | English |
| Module Coordinator | Prof. Dr. Veronika Lipphardt | | |
| Prerequisites | None | | |

**Module content & objectives**

This core module prompts students to reflect what it means to know, in what way knowledge is meaningful to humans, and how one becomes a knower – or what kind of knower one strives to be and why. Employing a broad concept of knowledge, the module draws on academic literature from educational psychology, sociology, philosophy, anthropology and history to capture various forms, concepts, nuances and usages of knowledge in everyday life (including scientific knowledge as one among others). Starting from "Personal Epistemology", students engage with aspects of knowing that usually go unnoticed, such as "Ignorance", "Tacit Knowledge", "Common Sense", or the relevancy of discourse, narratives and metaphors for knowing. In its second part, the module engages with various facets of the topic "Knowledge and Power", such as Gender and Knowledge, Indigenous Knowledge, and Knowledge in Global Contexts. In its third section, the module discusses "Knowledge, Institutions and Technologies", including Bureaucratic Knowledge, Expert Knowledge, and Knowledge and AI.

While the module is meant to stimulate a reflection about knowledge on the basis of academic literature, it also pursues some goals beyond the content level. It aims at a first exposition of what it means to approach complex problems from various perspectives. Furthermore, it introduces students to three of the key issues in Liberal Arts and Sciences: interdisciplinarity, methodological choices and critical thinking.

Emphasis may vary with instructor. The module also provides a platform for students' deliberations on their own position in the world, their educational experiences, study program and individual study path. Last but not least, the module aims at introducing students to some key texts from the humanities, such as "The Order of Discourse" by Michael Foucault.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. articulate various concepts of knowledge,
2. articulate various methodological approaches to examine phenomena related to knowledge,
3. understand and apply key concepts of a sociology of knowledge.

**Graded Examination**

Written assignment.

**Pass/Fail Examination**

Attendance in workgroups and lecture in line with the LAS policy and project presentations.

| 4.6 Theory of Knowledge | | | 00LE62MO-LAS26-2210 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Winter Semester | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Lecture and Seminar | Language | English |
| Module Coordinator | Prof. Dr. Frieder Vogelmann | | |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students …<br>▪ have passed the module Knowledge in Context. | | |

**Module content & objectives**

This fundamental module in the LAS program introduces students to philosophical questions concerning knowledge and knowledge production. It focuses on conceptual considerations of central issues from epistemology: what are knowledge, justification or truth? How can we respond to sceptical arguments? What is the connection between knowledge and social power? The module also introduces students to political and social aspects of knowledge by discussing concepts and evaluating arguments from political and feminist epistemology.

Alongside epistemology, the module also offers an introduction to basic ideas from logic and the philosophy of language. Students learn to examine, criticise and improve arguments from a wide variety of philosophical views. Through lectures, readings and workgroup discussions, students are introduced to philosophical methods and theoretical discussions. Overall, the module privileges the understanding of philosophical problems over rote knowledge of philosophical positions.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. distinguish sound arguments from fallacies and explain key concepts of epistemology: e.g., knowledge, justification and truth,
2. reflect on different attempts to solve epistemological problems, as well as their (dis-)advantages,
3. navigate the philosophical literature on epistemology on their own.

**Graded Examination**

Written exam of 90-120 minutes.

**Pass/Fail Examination**

Attendance in workgroups in line with the LAS policy, oral presentations or response papers.

| 4.7 Theory of Science | | | 00LE62MO-LAS26-2220 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Summer Semester | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format/ Teaching Methods | Lecture and Seminar | Language | English |
| Module Coordinator | Prof. Dr. Frieder Vogelmann | | |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students …<br>▪ have passed the module Theory of Knowledge. | | |

**Module content & objectives**

This fundamental core module of the LAS program introduces students to philosophical perspectives on scientific theories and practices. Particular attention is paid to the field of philosophy of science and the way that philosophers of science conceptualize the characteristics and scope of scientific thought. Students will engage with questions such as the following: Can we understand all kinds of scientific practice by a single scientific method? What is specific about scientific explanations of phenomena? Is there a clear distinction between sciences and pseudo-sciences? Furthermore, the module explores fundamental debates from philosophy of science about scientific realism (do scientific practices disclose or construct reality?), the role of political and ethical values in scientific practices and the social and political role of the sciences.

Through lectures, readings, and workgroup discussions, students are introduced to the major questions and problems in philosophy of science, as well as to the most important attempts to answer or solve them. Students will critically reflect concepts such as rationality, objectivity, theory, natural laws, or realism.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe and explain fundamental concepts of the sciences, e.g., “theory” or “experiment,”
2. discuss different conceptions of scientific explanation and confirmation,
3. reflect upon the rationality and objectivity of science,
4. understand the difference between a normative and a socio-historical view on science.

**Graded Examination**

Written exam of 90-120 minutes.

**Pass/Fail Examination**

Attendance in workgroups in line with the LAS policy, oral presentations or response papers.

| 4.8 Science in Context | | | 00LE62MO-LA26-2240 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Summer Semester | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Lecture and Seminar | Language | English |
| Module Coordinator | Prof. Dr. Veronika Lipphardt | | |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students …<br>▪ have been exposed to contents of the modules Knowledge in Context and Theory of Knowledge. | | |

**Module content & objectives**

This is a fundamental core module of the LAS program which teaches students how science and technology can be described and analyzed as sociocultural and historical phenomena. It emphasizes, therefore, that science is not a socially detached body of knowledge or that technology is not a given set of artifacts, but rather that these are the outcomes of geographically, historically, and culturally situated practices. Of special relevance are the disciplines of Science and Technology Studies, Anthropology of Science and Technology, History of Science and Technology, and Sociology of Science and Technology.

The module focuses on the empirical study of science and technology, through lectures, readings, and workgroup activities and discussions. Important theoretical schools within the field of Science and Technology Studies that focus both on how society influences science and technology and on how science and technology influence society will be introduced.

In addition, it invites students to reflect upon their own involvement in science and technology, to develop a critical but not negative understanding of the role of science and technology in the world, and to consider the impact and implications of their own work for society.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe and explain fundamental elements of an empirical, sociocultural perspective on science and technology,
2. independently apply the general outlook of key theoretical schools introduced in the module to empirical settings,
3. engage in extemporaneous discussions, debates, and presentations that analyze, compare, and contrast key scholarship in the field and how later theoretical schools emerged from earlier ones,
4. contrast the perspective of this module with the perspective of the corresponding module Theory of Science,
5. undertake and present on empirical research that integrates primary research with Science and Technology Studies Theories.

**Graded Examination**

Written exam (50%) and oral presentation (50%).

**Pass/Fail Examination**

Attendance in workgroups in line with the LAS policy, oral presentations.

| 4.9 Responsibility and Leadership I | | | 00LE62MO-LAS26-2310 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Every Winter Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 4 |
| Workload | 120h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Lecture and Project | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |

**Module content & objectives**

The first module of Responsibility and Leadership has an introductory character. It combines insights from Anthropology, Cultural Studies, Economics, Philosophy, Psychology, and Sociology and focusses on two larger themes:

- responsible action and the dynamics of human interaction,
- diversity and responsible leadership.

The module provides academic insights and tools for reflection for dealing with the challenges of leading responsible actions. The courses are taught in a combination of seminar sessions and lectures.

It also introduces practical skills for project work in a group. Students will apply the contents of the seminars in self-organized projects which are supervised by the instructors and presented at a common conference at the end of the courses.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. outline and keep apart insights from different disciplines that deal with responsible leadership,
2. describe and explain how diversity and communication affect individuals and collectives,
3. recognize and apply skills of planning and organization in self-governed collaborative groups,
4. approach ethical problems in decision making from theoretical and practical points of view.

**Graded Examination**

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**Pass/Fail Examination**

Attendance coaching and workgroup sessions and presentation of a group project at the final conference.

| 4.10 Responsibility and Leadership II | | | 00LE62MO-LAS26-2320 |
|---|---|---|---|
| Type of Module | Compulsory | | |
| Frequency | Yearly | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 4 |
| Workload | 120h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students …<br>▪ have passed the module Responsibility and Leadership I. | | |

**Module content & objectives**

This module builds on the introduction given in Responsibility and Leadership I and deepens a selection of its main areas. The approach is rooted in scientific approaches from Psychology, Philosophy, Economics, Anthropology and Sociology and is supplemented by excursions, practical skills and exercises for professional and / or civic purposes. Combinations and emphasis may vary but address and focus on at least two of the following main areas:

- bases and dynamics of human interaction,
- equality, diversity and non-discriminatory practice,
- ethics, decision-making and responsible action, and
- leadership and managerial challenges;
- the module also offers students the opportunity to apply principles of responsible leadership in self-organized practical projects such as Service Learning.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe and keep apart approaches and contributions from different academic disciplines for the subject area responsibility and leadership,
2. reflect on social and individual aspects of responsibility and leadership,
3. apply and adapt practical examples for problems that concern responsible and leading actions.

**Graded Examination**

Written assignment (not to exceed 3,000 words total.

**Pass/Fail Examination**

Attendance in line with the LAS policy.

# 5 Modules of the Major Culture and History

## Study Plan

We recommend following this model until semester 4. Then, course selection becomes more flexible. You can take Responsibility and Leadership II and Advanced Academic Skills through years 2-4.

| Year | Winter Semester | Summer Semester |
|---|---|---|
| 1 | Knowledge in Context (8) | Statistics (6) |
| | Research and Presentation (6) | Introduction to C&H (8) |
| | English Academic Writing (6) | Introduction to Major (8) |
| | Responsibility & Leadership I (4) | Introduction to Major (8) |
| | Language / Elective | |
| 2 | Theory of Knowledge (8) | Theory of Science (8) |
| | Theory of History (6) | Theory of Culture (6) |
| | Culture: Arts (6) | Culture: Peoples & Practices (6) |
| | History: Ancient/Medieval (6) | History Modern/Contemp. (6) |
| | Elective | Elective |
| 3 | Philosophy (6) | Culture and History III (6) |
| | Culture and History I (6) | Specialization C&H I (6) |
| | Culture and History II (6) | Specialization C&H II (6) |
| | Elective | Elective |
| | Study Abroad (optional) | |
| 4 | Senior Profile (12) | Science in Context (8) |
| | | Bachelor Thesis (12) |
| | | |
| | Elective | Elective |

| **5.1 Introduction to Culture and History** | **00LE62MO-LAS26-3100** |
|---|---|
| Type of Module | Compulsory for Culture and History Majors<br>Compulsory Elective for other Majors (Multidisciplinarity) |

| | | | |
|---|---|---|---|
| Frequency | Every Summer Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Lecture and Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students have the typical humanities skills set and knowledge of a high school graduate, including some work with literature and history. | | |

**Module content & objectives**

In this module, students work with typical objects of study in the humanities: literary, philosophical and other texts, works of visual art, and observed cultural practices. At the same time, they practice the methods of critical inquiry and interpretation that can be applied to these objects and practices. Finally, students also read and discuss important theoretical works, many of them classics in their field, which introduce the promise and challenges of humanistic research and study.

Lectures introduce the humanistic methods and theories. In the Work Groups, the methods and theories are practiced using relevant objects of study.

The overarching goal is for students to practice producing interpretive arguments based on methodologically sound description and analysis of cultural objects.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. correctly apply basic literary, visual, ethnographic, and historical methods to any given cultural object.
2. independently produce an interpretive argument about a cultural object.
3. critically evaluate the strength of competing interpretations of a cultural object based on empirical evidence drawn directly from that object.

**Graded Examination**

A 90-minute written examination (50%) and an interpretive essay (50%) of no more than 2000 words.

**Pass/Fail Examination**

Attendance of workgroups in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.2 Theory of Culture | | | 00LE62MO-LAS26-3110 |
|---|---|---|---|
| Type of Module | Compulsory for Culture and History Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

This module develops students' understanding of theories of culture. Definitions of "culture" are explored as ways of understanding certain parts of human experience as well as certain kinds of objects: everyday life, custom and habit, identity and difference among human groups, hegemony and resistance, "high" and "low" culture.

At the same time, students learn to distinguish between the goals of the various disciplines that study culture: anthropology, ethnology, folklore, cultural studies, art history, literary and language studies, etc.

The module makes use of widely recognized, canonical figures, concepts, and arguments (e.g., Marx, Durkheim, Frankfurt and Birmingham Schools) so that students can correctly identify and apply these when they are encountered elsewhere.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. analytically distinguish between different research approaches to the study of culture.
2. correctly use theoretical vocabulary and conceptual tools shared by researchers of culture.
3. connect material from other modules into a more comprehensive understanding of the study of culture.

**Graded Examination**

Written exam (max. 90 minutes) and written assignment(s) (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.3 Theory of History | | | 00LE62MO-LAS26-3120 |
|---|---|---|---|
| Type of Module | Compulsory for Culture and History Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

This module develops students' understanding of theory of history. "History" is explored as an object of study (the past), as an academic discipline (History) and as a genre of writing (historiography).

Specific theory problems include:

Epistemology: In what sense does the past still exist and how can it be known? Objectivity as a special problem.

Ethics: What responsibilities emerge from the relation between the past, present, and future? What values should guide the historian's relation to past peoples, to present publics, and to fellow historians?

Language: Can a complex social reality be adequately represented through words? In what sense are (hi)stories true?

The module makes use of widely recognized, canonical figures, concepts, and arguments (e.g., Ranke, de Staël, Weber, etc.) so that students can correctly identify and apply these when they are encountered elsewhere.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. analytically distinguish between different approaches to the study of the past.
2. correctly use theoretical vocabulary and conceptual tools shared by historians and others who study the past.
3. connect material from other modules into a more comprehensive understanding of the study of the past.

**Graded Examination**

Written exam (max. 90 minutes) and written assignment(s) (max. 5000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.4 Culture: Arts | | | 00LE62MO-LAS26-3450 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module, students practice the methods appropriate to the study of literary, visual, plastic, or performance arts.

A special challenge in working with art works and performances is to attend with sufficient concentration to all of the details that make up the work. Methods are drawn from formal analysis, performance studies, musicology, reception theory, aesthetics, or art history, among others.

The module is offered with varying topics drawn from specific works of art, traditions of artistic production, or contexts of artistic reception.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. identify the methods of analysis and interpretation practiced in the module.
2. understand the possibilities and limits of those methods.
3. apply the methods on a work of art or performance in order to produce an interpretive argument.
4. demonstrate mastery of the specific body of knowledge about art and aesthetics covered.
5. relate their learning about arts to the study of other kinds of objects of research in the humanities.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.5 Culture: Peoples and Practices | | | 00LE62MO-LAS26-3430 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module students practice the methods appropriate to the study of human groups and practices by studying a geographic or social space of cultural activity.

Because human groups and cultural practices are everchanging, researchers face the particularly difficult challenges in identifying, collecting, and justifying appropriate empirical evidence. Methods are drawn from anthropology, ethnography, cultural studies, media studies, gender studies, or postcolonial studies and may include participant observation, interviewing, or discourse analysis, among others.

The emphasis in this module is on the synchronic study of culture, although some versions may include a diachronic element.

The module is offered with varying topics drawn from a specific cultural realm (a region, a group), a cultural theme/problem (violence, leisure, etc.), or both.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. identify the methods used in the module.
2. understand the possibilities and limitations of the methods explored.
3. practice one of the methods while making an interpretive argument about a group or practice.
4. demonstrate mastery of the specific body of knowledge about a cultural group or practice explored in the module.
5. relate their learning about a specific space of human cultural activity to the study of other kinds of objects of research in the humanities.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.6 History: Ancient, Medieval, or Early Modern | | | 00LE62MO-LAS26-3410 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module students practice the methods appropriate to the study of pre-modern societies and cultures (up to around 1800, depending on the specific topic).

Challenges of research in this area include accounting for historical difference and making the most of scant primary sources. Researchers working on older societies draw on many kinds of sources (texts, visual culture, material culture) in order to create as complete an understanding as possible.

The module is offered with varying topics drawn from a specific historical context, the exploration of a theme or problem, or working with a specific body of source materials.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. identify some of the methods used by historians of pre-modern societies.
2. understand the possibilities and limitations of those methods.
3. make a historical argument that combines the use of primary sources of at least two different kinds (e.g, textual, visual, archaeological, etc.).
4. demonstrate mastery of the topical knowledge about a pre-modern society or culture.
5. relate their learning about pre-modern societies to contemporary problems and issues.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.7 History: Modern or Contemporary | | | 00LE62MO-LAS26-3420 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module students practice the methods appropriate to the study of modern and contemporary societies and cultures (since around 1800, depending on the specific topic).

Challenges of research in this area include accounting for historical difference and judicious selection from plentiful sources. Researchers working on more recent societies draw on oral history and memory studies, sociology and anthropology, philosophy and social theory, literary studies, art history, or historical methods, among others.

The module is offered with varying topics drawn from a specific historical context, the exploration of a theme or problem, or working with a specific body of source materials.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. identify some of the methods used by historians of modern societies.
2. understand the limits and possibilities of those methods.
3. justify the selection of primary source evidence while making a historical argument.
4. demonstrate mastery of the topical knowledge about a modern society or culture.
5. relate their learning about modern societies to contemporary problems and issues.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.8 Philosophy | | | 00LE62MO-LAS26-3440 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module, students practice philosophy as a specific mode of humanistic inquiry in order to hone their skills in argument construction and criticism while also learning to work with philosophical texts. Logic and systematic reasoning are especially important in the humanities because the product of research is often an extended argument.

A special challenge in this area is reasoning *sub specie aeternitatis* ("under the aspect of eternity"), about what is true regardless of the context. Because the Culture and History Major emphasizes contextualization and historicization, students should practice this quite different way of thinking and arguing.

The module is offered with varying topics drawn from history of philosophy, analytic philosophy, continental philosophy, or systematic philosophy and may emphasize a specific set of texts or philosophers, or philosophical exploration of a theme or problem.

**Learning Goals**

Upon successful completion of this module, students are able to …

1. reconstruct a philosophical argument found in a complex text.
2. identify and criticize a weakness in a philosophical argument.
3. define a complex concept by identifying its essential elements and linking them in a rigorously logical way.
4. demonstrate mastery of the texts or theme explored in the module.
5. relate their learning about philosophical argumentation to research in other humanities fields.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.9 Culture and History I | | | 00LE62MO-LAS26-3510 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module, students expand or deepen their methods training and topical knowledge in the humanities by further study in one of the central areas of Culture and History. By doing so, they profile their studies of the humanities.

They also encounter the challenge of integrating the diversity of humanities approaches within a field they have already encountered.

In order to complete the module, students can choose among courses offered as one of the Profile module: Methods modules within the Culture and History Major. In rare cases, humanities courses may be offered exclusively as Culture and History I/II/III.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. meet the learning goals for the module in which the course is offered.
2. compare and justify a choice between the methodological approaches used in this module and the corresponding previous one.
3. develop their self-reflexive awareness of their preferences, convictions, and commitments as a student of the humanities.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.10 Culture and History II | | | 00LE62MO-LAS26-3520 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module, students expand or deepen their methods training and topical knowledge in the humanities by further study in one of the central areas of Culture and History. By doing so, they profile their studies of the humanities.

They also encounter the challenge of integrating the diversity of humanities approaches within a field they have already encountered.

In order to complete the module, students can choose among courses offered as one of the Profile module: Methods modules within the Culture and History Major. In rare cases, humanities courses may be offered exclusively as Culture and History I/II/III.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. meet the learning goals for the module in which the course is offered.
2. compare and justify a choice between the methodological approaches used in this module and the corresponding previous one.
3. develop their self-reflexive awareness of their preferences, convictions, and commitments as a student of the humanities.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.11 Culture and History III | | | 00LE62MO-LAS26-3530 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Successful completion of the Introduction to Culture and History or equivalent introductory academic work in the humanities. | | |

**Module content & objectives**

In this module, students expand or deepen their methods training and topical knowledge in the humanities by further study in one of the central areas of Culture and History. By doing so, they profile their studies of the humanities.

They also encounter the challenge of integrating the diversity of humanities approaches within a field they have already encountered.

In order to complete the module, students can choose among courses offered as one of the Profile module: Methods modules within the Culture and History Major. In rare cases, humanities courses may be offered exclusively as Culture and History I/II/III.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. meet the learning goals for the module in which the course is offered.
2. compare and justify a choice between the methodological approaches used in this module and the corresponding previous one.
3. develop their self-reflexive awareness of their preferences, convictions, and commitments as a student of the humanities.

**Graded Examination**

Written exam (max. 90 minutes) and a written assignment(s) OR Written exam (max. 90 minutes) and practical work OR Written assignment(s) OR practical work (max. 5,000 words total).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.12 Specialization I: Culture and History | | | 00LE62MO-LAS26-3630 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of two Compulsory Modules, including Introduction to Culture and History. | | |
| Expected Prior Knowledge | Introductory and intermediate academic work in the humanities. | | |

**Module content & objectives**

In this module, students deepen their knowledge and training through research-oriented study in the humanities. Research orientation can mean either focused investigation into a particular humanities field or independent research undertaken at the bachelor level.

The module can be fulfilled in three ways:

1. Some courses offered as Profile module modules within the Culture and History Major will simultaneously be offered at this more advanced level and with a research-orientated graded examination.
2. Advanced courses will be offered specifically for this module.
3. Students may also undertake a Supervised Independent Study, as per §6.9 and §6.12 of the StuPO. Guidelines and application procedure are available from LAS instructional staff.

The module is offered with varying topics drawn from across humanities fields.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. demonstrate critical engagement with a specific body of humanistic scholarship.
2. evaluate the possibilities and limits of specific humanistic theories and methods in approaching specific cultural objects, cultural spheres, and/or a specific past.
3. independently formulate a research agenda in the humanities.

**Graded Examination**

A written assignment (max. 10,000 words).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.13 Specialization II: Culture and History | | | 00LE62MO-LAS26-3640 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of two Compulsory Modules, including Introduction to Culture and History. | | |
| Expected Prior Knowledge | Introductory and intermediate academic work in the humanities. | | |

**Module content & objectives**

In this module, students deepen their knowledge and training through research-oriented study in the humanities. Research orientation can mean either focused investigation into a particular humanities field or independent research undertaken at the bachelor level.

The module can be fulfilled in three ways:

1. Some courses offered as Profile module modules within the Culture and History Major will simultaneously be offered at this more advanced level and with a research-orientated graded examination.
2. Advanced courses will be offered specifically for this module.
3. Students may also undertake a Supervised Independent Study, as per §6.9 and §6.12 of the StuPO. Guidelines and application procedure are available from LAS instructional staff.

The module is offered with varying topics drawn from across humanities fields.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. demonstrate critical engagement with a specific body of humanistic scholarship.
2. evaluate the possibilities and limits of specific humanistic theories and methods in approaching specific cultural objects, cultural spheres, and/or a specific past.
3. independently formulate a research agenda in the humanities.

**Graded Examination**

A written assignment (max. 10,000 words).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

| 5.14 Senior Profile: Culture and History | | | 00LE62MO-LAS26-3650 |
|---|---|---|---|
| Type of Module | Profile module for Culture and History Majors<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 12 |
| Workload | 360h | Duration of Module | 2 semesters |
| Course Format / Teaching Methods | variable | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of two Compulsory Modules, including Introduction to Culture and History. | | |
| Expected Prior Knowledge | Introductory and intermediate academic work in the humanities. | | |

**Module content & objectives**

This module allows senior students to profile their study of the humanities in a variety of ways as they consider the academic and professional steps they will take after graduation. Students may continue research-oriented study or pursue practical and project-oriented study.

A special challenge here is to integrate the variety of methods, theories, and topics that constitute study in the Culture and History Major. Students therefore develop and improve their academic self-reflection as well as their social and personal competencies.

The module may be completed using a combination of the following learning formats:

- Courses offered as Specialization Option I/II: Culture and History.
- Courses on project design and/or implementation.
- Individual or group exercises and projects focused on reflection upon and integration of interdisciplinary knowledge within the Major and between the Major and other areas of study.
- Independent or group research project or a Major-related practical project.
- Major-related internship.
- Participation in communication across and beyond academic contexts.
- If relevant, laboratory work, simulations, presentations and workshops.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. reflect on and evaluate the use of factual, conceptual and procedural knowledge across contexts and disciplines.
2. choose and assess ways of communicating knowledge across academic and non-academic contexts.
3. describe, apply and differentiate between working and learning strategies, including planning and problem-solving strategies.
4. develop self-awareness as producers and communicators of knowledge.

**Graded Examination**

A written assignment (max. 10,000 words) OR oral examination OR practical work (max. 10,000 words).

**Pass/Fail Examination**

Attendance in line with the LAS policy, satisfactory completion of all required small assignments.

# 6 Modules of the Major Environmental and Sustainability Sciences

## Study Plan

We recommend following this model until semester 4. Then, course selection becomes more flexible. You can take Responsibility and Leadership II and Advanced Academic Skills through years 2-4.

| Year | Winter Semester | Summer Semester |
|---|---|---|
| 1 | Knowledge in Context (8) | Statistics (6) |
| | Research and Presentation (6) | Introduction to ESS (8) |
| | English Academic Writing (6) | Introduction to Major (8) |
| | Responsibility & Leadership I (4) | Introduction to Major (8) |
| | Language (4) / Elective (6) | |
| 2 | Theory of Knowledge (8) | Theory of Science (8) |
| | Maths for the Sciences (6) | Methods of Observing (6) |
| | Sustainability Sciences (6) | Ecology (6) |
| | Environmental Chemistry (6) | Earth Systems (6) |
| | Elective | Elective |
| 3 | Humans and Environment I (6) | Specialization ESS I (6) |
| | Humans and Environment II (6) | Quantitative Methods (6) |
| | Methods (6) | Specialization ESS II (6) |
| | Elective | Elective |
| | Study Abroad (optional) | |
| 4 | Senior Profile (12) | Science in Context (8) |
| | | Bachelor Thesis (12) |
| | | |
| | Elective | Elective |

| 6.1 Introduction to Environmental and Sustainability Sciences | 00LE62MO-LAS26-6100 |
|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Compulsory Elective for other Majors (Multidisciplinarity) |

| | | | |
|---|---|---|---|
| Frequency | Every Summer Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | Seminar and (Practical) Workgroup | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Knowledge about the environment and sustainability at the level of a high school graduate. | | |

Module content & objectives

In this module, students learn the basics of natural and socio-economic processes in order to better understand the challenges and possibilities for sustainable development. A strong focus of this module is on the human being and its interactions with the natural environment.

Students will acquire basic knowledge of Earth system processes, supporting a broader understanding of our planetary systems and the processes that sustain human life. This includes our physical environment (e.g. climate, water, soil) and our living environment (e.g. plants and animals, especially humans) as well as the interaction between the two. Students engage in scientific work related to contemporary environmental issues (e.g. biodiversity loss, environmental pollution, climate change, resource exploitation, ecosystem degradation) and will also explore sustainability through the lens of socio-economic processes and concepts. Additionally, students are introduced to some basic research methods used in the field of Environmental and Sustainability Sciences.

Learning Goals

Upon successful completion of this module, students are able to…

1. understand the basic structures and functions of our planet's components and their interaction with each other,
2. identify links between these components and/or between past and contemporary environmental challenges,
3. acquire a basic understanding of human influence on the environment,
4. analyze and evaluate the challenges and possibilities for sustainable development from a natural and social sciences perspective,
5. conduct basic scientific work/experiments,
6. present a topic according to basic scientific standards.

Graded Examination

The final examination consists of a practical portfolio. The portfolio may include, in full or in part, the following elements: a scientific poster, written reports of practical work, field data collection and analysis, and reflections on seminar topics. Total 2,500 words.

Pass/Fail Examination

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.2 Ecology and Biodiversity | | | 00LE62MO-LAS26-6150 |
|---|---|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar, Practical Work | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students…<br>▪ have successfully completed the module Introduction to Environmental and Sustainability Sciences;<br>▪ have knowledge about biology at the level of a high school graduate. | | |

**Module content & objectives**

Biological processes in nature are affected by ecological interactions, and we as human beings are part of this global network. In this module, students will focus on different biotic entities such as individuals and communities and how individuals in these communities interact with each other and their environment. In addition, the implications for nature conservation, resource use and the study of human impact on the environment are addressed.

Students acquire fundamental knowledge about ecological principles and research approaches during the seminar and practice ecological research methods during practical classes.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. recall basic ecological principles that control and regulate populations, communities and ecosystems,
2. explain ecological patterns by applying these principles,
3. discuss implications of these principles for nature conservation, resource use and/or the study of human impact on the environment,
4. perform basic ecological research and report its outcome.

**Graded Examination**

Variable: written assignments (2000 words) and oral presentation (15 min), or practical work.

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.3 Environmental Chemistry | | | 00LE62MO-LAS26-6130 |
|---|---|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar and Workgroup | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students …<br>▪ have knowledge about chemistry at the level of high school graduates. | | |

**Module content & objectives**

In this module students are introduced to the basics of Environmental Chemistry. Students study the main building blocks of our material world composed of atoms, ions and molecules. They investigate fundamental chemical reactions and electron-transfer reactions (redox chemistry). In addition, they are introduced to basic thermodynamic and kinetic principles driving chemical reactions. Finally, they explore the essential elements of life on earth and they will take a closer look at the chemistry of several important biogeochemical cycles and biological processes.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe the basic electronic and structural features of molecules.
2. set up and complete chemical equations.
3. understand elementary thermodynamic (heat) and kinetic (velocity) aspects of chemical reactions.
4. apply the principles of structure and reactivity to essential life processes in the presence and absence of dioxygen.
5. present/discuss a selected topic.

**Graded Examination**

The final examination for this module consists of a written exam (60 min, 60%) and a written assignment (1,000 words, 40%).

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.4 Earth System | | | 00LE62MO-LAS26-6140 |
|---|---|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar, Practical work | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students…<br>▪ should be familiar with the content of the module Introduction to Environmental and Sustainability Sciences;<br>▪ have knowledge about physics at the level of a high school graduate. | | |

**Module content & objectives**

In this module, students explore fundamental principles of the Earth System, to gain a basic understanding of the functioning of our planet. They will do so by focusing on one of the Earths components, including the hydrosphere and cryosphere, the atmosphere, the lithosphere and pedosphere (a stronger focus on the biosphere is already given in the module ecology and biodiversity). However, since these components are all part of one global system, they will also explore how the component of focus interacts with the other spheres. During the seminars, students will link their acquired knowledge to current environmental challenges.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe and understand the basic principles of the Earth system,
2. explore and analyze one of the Earths spheres (except the biosphere) in more depth
3. examine links between basic principles of the earth's spheres and contemporary environmental challenges (e.g. earthquakes, reservoirs of resources, soil degradation, climate change, water pollution, draught)

**Graded Examination**

The final examination for this module consists of a written exam (60 min, 70%) and a written assignment (1,500 words, 30%).

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.5 Mathematics for the Sciences | | | 00LE62MO-LAS26-6110 |
|---|---|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Compulsory for Life Sciences Major<br>Elective for Governance Major and Culture and History Major | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Lecture and Workgroup | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students …<br>▪ have knowledge about mathematics at the level of a high school graduate. | | |

**Module content & objectives**

This module introduces the basic concepts of mathematics, including, but not limited to analysis and algebra. It covers both the theoretical concepts of mathematics, as well as their application to the sciences in general. The module covers mathematics as it is needed for a major in Environmental and Sustainability Sciences.

Accordingly, most mathematical concepts will be taught with their application in the sciences in mind (e. g. properties of functions, derivatives, integrals, and geometrical vectors), enabling students to conduct quantitative analyses of simple mathematical problems.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. master basic concepts of analysis and linear algebra.
2. identify appropriate mathematical approaches to analyze a given problem and reach a quantitative solution,
3. recognize abstract concepts behind a given problem, to find similarities to already known situations.

**Graded Examination**

Written exam of 90 min.

**Pass/Fail Examination**

Submission of exercise sheets

| 6.6 Methods of Observing Nature | | | 00LE62MO-LAS26-6120 |
|---|---|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar and Practical Work | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students …<br>▪ should be familiar with the content of the module Introduction to Environmental and Sustainability Sciences with regard to applied environmental sciences. | | |

**Module content & objectives**

In this module, students explore the natural environment through direct field experience. There is a strong focus on practical work. Students gain hands-on experience with methods used to gather, analyze and present information about our environment, especially while being in the field. Topics can focus on different parts of our Earth system such as the hydrosphere, lithosphere, atmosphere and biosphere as well as the interaction between them.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe and report observations of natural processes,
2. link their theoretical knowledge to observations of natural processes or problems in the field,
3. explain links between particular natural processes and human actions,
4. communicate these observations.

**Graded Examination**

Variable: written assignments (2,000-2,500 words) or practical work, or a combination thereof.

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.7 Sustainability Sciences | | | 00LE62MO-LAS26-6160 |
|---|---|---|---|
| Type of Module | Compulsory for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar and Practical Work | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students …<br>▪ should be familiar with the content of the module Introduction to Environmental and Sustainability Sciences with regard to sustainability sciences. | | |

**Module content & objectives**

The growing human footprint on our planet is clearly shown by the enormous consumption of renewable (e.g. biomass) and non-renewable resources (e.g. fossil fuel). To sustain a high human development without destroying the environment, the equilibrium between economic viability, environmental tolerability and social fairness is required.

In this module students explore the cycling of materials on a local and /or global scale. This includes the life cycle of elements (e.g. carbon, nitrogen), molecules (e.g. water) and certain natural or human-made material (e.g. sand, metal, biomass, food, plastic, electronic devices). Course topics focus on the (un)sustainable use of natural resources e.g. for energy conversion, such as renewable energy systems and/or food production.

Students learn about processes and mechanisms that govern the cycling of the studied matter/material, about its flow and flux patterns, about its various forms as it goes through the different phases of the cycle, and about important reservoirs and residence times. Students also explore interactions with other cycles.

In addition, students examine the link between the cycle and humans (i.e. the influence of the cycle on humans and the influence of humans on the cycle) and discuss socioeconomic concepts and environmental management strategies.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe a specific cycle of matter and material in detail,
2. understand and discuss specialized texts and research methods in the area covered in the module,
3. apply acquired knowledge and research skills to the study of other global cycles of matter or material.

**Graded Examination**

Variable: written assignment (2,500 words) OR written assignments (2,000 words) and oral presentation (15 min), OR practical work.

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.8 Humans and the Environment I | | | 00LE62MO-LAS26-6430 |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Every semester | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar, excursion | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Environmental and Sustainability Sciences | | |

**Module content & objectives**

In this module students will explore the interactions of humans with their environment in more depth. Thereto, they will identify and analyze different environmental issues (such as resource exploitation, biodiversity loss, pollution) and possibilities to approach these issues sustainably. This includes also the role of the environment in society, governance, technology and/or culture. Such interdisciplinary orientation is at the basis of the design of courses jointly offered by LAS Majors.

Course contents can focus on the impact humans and their behavior have on the environment and/or vice versa. This also includes how humans interpret, approach and govern environmental and sustainability issues. Strategies to manage the impact humans have on the environment and vice versa can be illustrated and discussed.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe the complex interrelationships between humans and the environment,
2. identify, analyze and discuss approaches of humans to deal with environmental and sustainability issues,
3. analyze and discuss specialized texts and research methods in the area covered,
4. apply acquired knowledge and research skills to other topics about environmental issues and their relationship to humans.

**Graded Examination**

Variable: written assignments (2,000 words) and oral presentation (15 min), or a written assignment (2,500 words) or practical work.

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.9 Humans and the Environment II | | | 00LE62MO-LAS26-6435 |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Every semester | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar, excursion | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Environmental and Sustainability Sciences | | |

**Module content & objectives**

In this module students will explore the interactions of humans with their environment in more depth. Thereto, they will identify and analyze different environmental issues (such as resource exploitation, biodiversity loss, pollution) and possibilities to approach these issues sustainably. This includes also the role of the environment in society, governance, technology and/or culture. Such interdisciplinary orientation is at the basis of the design of courses jointly offered by LAS Majors.

Course contents can focus on the impact humans and their behavior have on the environment and/or vice versa. This also includes how humans interpret, approach and govern environmental and sustainability issues. Strategies to manage the impact humans have on the environment and vice versa can be illustrated and discussed.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe the complex interrelationships between humans and the environment,
2. identify, analyze and discuss approaches of humans to deal with environmental and sustainability issues,
3. analyze and discuss specialized texts and research methods in the area covered,
4. apply acquired knowledge and research skills to other topics about environmental issues and their relationship to humans.

**Graded Examination**

Variable: written assignment (2,000 words) and oral presentation (15 min), or a written assignment (2,500 words) or practical work.

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| **6.10 Methods** | | | **00LE62MO-LAS26-6440** |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Every semester | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar, practical work | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Environmental and Sustainability Sciences | | |

**Module content & objectives**

In this module students will acquire skills to understand and apply quantitative research methods that can be applied in the Environmental and Sustainability Sciences. The methods learned and applied can be e.g. experimental work, standardized observations, statistics, surveys, data processing and modelling.

Students will gather hands on experience by conducting data analysis using a certain research method either in class or in the field. Thereby, they will get familiarized with certain techniques of data gathering, analysis, interpretation and communication.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe a research problem in the field of Environmental and Sustainability Sciences, and the suitable method to approach this problem
2. understand and evaluate the quality of datasets
3. apply a scientific method to analyze the obtained or given datasets and communicate it in a report

**Graded Examination**

Practical work or a written assignment (2,500 words).

**Pass/Fail Examination**

Participation in course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.11 Quantitative Methods | | | 00LE62MO-LAS26-6445 |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Every semester | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar and practical work | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Environmental and Sustainability Sciences | | |

**Module content & objectives**

In this module, students will acquire skills to understand and apply quantitative and/or qualitative research methods that can be applied in the Environmental and Sustainability Sciences. The methods learned and applied can be e.g. experimental work, standardized observations, statistics, surveys, data processing and modelling. They can also include e.g. content analysis, semi-structured interviews, descriptive field research and qualitative observations.

Students will gather hands on experience by conducting an analysis of information such as data, texts, interviews etc. using a certain research method either in class or in the field. Thereby, they will get familiarized with certain techniques of information gathering, analysis, interpretation and communication.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe a research problem in the field of Environmental and Sustainability Sciences, and the suitable method to approach this problem,
2. understand and evaluate the quality of datasets,
3. apply a scientific method to analyze the obtained or given datasets and communicate it in a report.

**Graded Examination**

Written exam or practical work or a written assignment (2,500 words).

**Pass/Fail Examination**

Participation in all course activities (including attendance in line with the LAS policy) and submission of exercises.

| 6.12 Specialization I: Environmental and Sustainability Sciences | | | 00LE62MO-LAS26-6610 |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the Introduction to Environmental and Sustainability Sciences and at least two Profile modules incl. methods and/or quantitative methods. | | |

**Module content & objectives**

This module allows students to select a course on an advanced topic or research method they intend to specialize in. Students can choose from specialization courses offered in the fields of Environmental and Sustainability Sciences. These courses can focus on different fields of study such as Environmental Governance, Science and Technology Studies or Renewable Energy Technologies.

The module puts special emphasis on research and/or research methods and covers a certain topic and/or method in its full range. Relevant theory is discussed in depth in order to provide students with a thorough background on the topic. Research methods and/or topics are explored intensively.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. thoroughly understand the theories, concepts and methods relevant to the research area covered in the module,
2. apply the acquired concepts and methods to the study of other topics related to the research area covered in the module,
3. evaluate research in the area covered in the module.

**Graded Examination**

Practical performance or a written assignment (2,500 words) or an oral presentation (15 min) and a written assignment (2,000 words).

**Pass/Fail Examination**

The type of assessment and requirements depend on the course chosen.

| 6.13 Specialization II: Environmental and Sustainability Sciences | | | 00LE62MO-LAS26-6620 |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 3,4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format /Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the Introduction to Environmental and Sustainability Sciences and at least two Profile modules incl. methods and/or quantitative methods. | | |

**Module content & objectives**

This module allows students to select a course on an advanced topic or research method they intend to specialize in. Students can choose from specialization courses offered in the fields of Environmental and Sustainability Sciences. These courses can focus on different fields of study such as Environmental Governance, Science and Technology Studies or Renewable Energy Technologies.

The module puts special emphasis on research and/or research methods and covers a certain topic and/or method in its full range. Relevant theory is discussed in depth in order to provide students with a thorough background on the topic. Research methods and/or topics are explored intensively.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. thoroughly understand the theories, concepts and methods relevant to the research area covered in the module,
2. apply the acquired concepts and methods to the study of other topics related to the research area covered in the module,
3. evaluate research in the area covered in the module.

**Graded Examination**

Practical performance or a written assignment (2,500 words) or an oral presentation (15 min) and a written assignment (2,000 words).

**Pass/Fail Examination**

The type of assessment and requirements depend on the course chosen.

| 6.14 Senior Profile: Environmental and Sustainability Sciences | | | 00LE62MO-LAS26-6630 |
|---|---|---|---|
| Type of Module | Profile module for Environmental and Sustainability Sciences Major | | |
| Frequency | Yearly | Year of Studies | 3,4 |
| Contact Hours | Variable | Credit Points | 12 |
| Workload | 360h | Duration of Module | Semester to a year long |
| Course Format / Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the Introduction to Environmental and Sustainability Sciences and at least two Profile modules incl. methods and/or quantitative methods. | | |
| Expected Prior Knowledge | Students …<br>▪ are proficient in applying scientific methodologies and have solid skills in academic communication, group work and individual work, including time management. Students have reflected on their learning progress and learning profile. Students can efficiently manage multiple assignments at a high academic level. | | |

Module content & objectives

This module consists of three parts which can vary each in workload, however a total workload of 360h has to be carried out. The three parts are divided in project design, project performance and project communication.

**Project design**: Students will have to attend seminars in which project management and project design is taught. After completion of these seminars, students will be able to state and elaborate their project goal (topic/question) and relevance. They will situate their project in the relevant literature and identify and present the methods they intend to use. Finally, students will set up a project plan that indicates the feasibility of the project within a given timeframe, available resources and skills. It is recommended to take these seminars before the start of the project.

**Project performance** (min. 1/3 of the workload of the entire module): Students have to carry out a project. The project can be done on an individual level, as group work or as part of a course. It can be done under supervision or independently. It can be a disciplinary, interdisciplinary or transdisciplinary project. The project has to relate to topics of the Environmental and Sustainability Sciences.

**Project communication:** Students will have to attend academic talks and to communicate their projects in one of these talks. In one of the academic talks, students have to present their project. They can communicate their project during the planning stage, either while performing it or once it is completed.

Learning Goals

Upon successful completion of this module, students are able to…

1. Reflect on and evaluate the use of factual, conceptual and procedural knowledge across contexts and disciplines,
2. Choose and assess ways of communicating knowledge across academic and non-academic contexts,
3. Describe, apply and differentiate between working and learning strategies, including planning and problem-solving strategies,
4. Develop self-awareness as producers and communicators of knowledge.

Graded Examination

Variable: Written assignment or practical work or oral examination, depending on the course chosen.

Pass/Fail Examination

The type of assessment and requirements depend on the course chosen.

## 7 Modules of the Major Governance

### Study Plan

We recommend following this model until semester 4. Then, course selection becomes more flexible. You can take Advanced Academic Skills through years 2-4.

| Year | Winter Semester | Summer Semester |
|---|---|---|
| 1 | Knowledge in Context (8) | Statistics (6) |
| | Research and Presentation (6) | Introduction to GOV (8) |
| | English Academic Writing (6) | Introduction to Major (8) |
| | Responsibility & Leadership I (4) | Introduction to Major (8) |
| | Language (4) / Elective (6) | |
| 2 | Theory of Knowledge (8) | Theory of Science (8) |
| | Responsibility and Leadership II (4) | International Relations (8) |
| | Political Theory (8) | Law (8) |
| | RAS*/Methods/Economics (6) | Comparative Politics (6) |
| | Elective | Elective |
| 3 | RAS*/Methods/Economics (6) | Research in an Area of GOV (6) |
| | RAS*/Methods/Economics (6) | Specialization GOV (6) |
| | Advanced Governance II (6) | Senior Profile (12) |
| | Elective | Elective |
| | Study Abroad (optional) | |
| 4 | Senior Profile (12) | Science in Context (8) |
| | | Bachelor Thesis (12) |
| | | |
| | Elective | Elective |

| 7.1 Introduction to Governance | | | 00LE62MO-LAS26-4100 |
|---|---|---|---|
| Type of Module | Compulsory for Governance Major<br>Compulsory Elective for other Majors (Multidisciplinarity) | | |
| Frequency | Every Summer Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Plenary and Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students understand basic principles of academic communication in oral and written form, have first experiences in group work and can manage regular reading assignments. Students have engaged with socio-political issues and can approach them analytically and critically. | | |

Module content & objectives

In this introductory module students acquire foundational disciplinary knowledge in social and political sciences, develop analytical and interpretation skills and build social and personal competencies in the area of academic communication and teamwork. To achieve these objectives, the module combines three learning formats:

- interactive plenary sessions provide space for structured discussion, based on goal-guided reading of academic texts on the central topics of the module, with the focus on the argument, the vocabulary and the complexities of the study of social and political reality;
- workgroups provide space for individual and small group work where students apply concepts and theories to cases, and improve analytical, teamwork and academic communication skills;
- a group project allows for self-reliant planning, realization and communication of a limited-scope analysis of a social issue.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. recognize and appropriately use central concepts in the study of governance processes in communities, states, and markets, including social contract, collective action, direct and indirect democracy, and agenda-setting;
2. summarize and give examples of varying approaches to the central concepts, such as different theories of social contract or agenda-setting;
3. identify and describe the specific focus of social science disciplines and give examples of interrelations between them.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

1. understand, paraphrase and produce academic texts on the topics of the module, with proper use of academic vocabulary;
2. recognize, analyze and formulate definitions according to scholarly standard;
3. improve capacity of analysis and interpretation of social and political reality, namely in terms of normality and deviation, and contextualization;
4. build improved awareness about complexities and controversies in social and political sciences;
5. improve academic communication skills, for example, through participation in a class debate and a group project;
6. improve planning and time-management skills, for example, through covering extended readings in an efficient way;
7. improve social skills, including teamwork, in group work and in the group project.

Graded Examination

| |
|---|
| Written assignments (up to 2,500 words) – 45%; and written examination – 55%. |
| Pass/Fail Examination |
| Attendance of workgroups in line with the LAS policy; ungraded individual and group work, including a group project. |

| 7.2 Political Theory | | | 00LE62MO-LAS26-4110 |
|---|---|---|---|
| Type of Module | Compulsory for Governance Major<br>Elective for other Majors | | |
| Frequency | Every Winter Semester | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students have engaged with socio-political issues and can address them analytically and critically. Students can manage regular reading assignments and have basic skills in using academic and non-academic sources for the construction of arguments. Students have advanced experience of group work and academic communication, in oral and written form. Students are ready to formulate and commit to an individually meaningful position on social, economic and political issues. | | |

Module content & objectives

This foundational module provides students with an introduction to the normative theories about the relationship between the state, markets, communities and individuals in Western political theory. Students can strengthen their analytical and writing skills, develop self-awareness regarding own normative thinking and build up social competence and communication skills.

The module relies on the use of active learning formats enabling direct engagement of students in the classroom and outside of it, namely,

- through small group and seminar discussions based on readings and class input;
- group work and,
- if appropriate, problem-based learning.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. recognize and distinguish between different normative understandings of central political concepts, including liberty, equality, justice, and democracy;
2. summarize and give examples of the different normative understandings of the role of the state;
3. explain the interrelations between the different normative concepts, for example, the relationship between liberty and equality;
4. compare and contrast normative theories and concepts;
5. use normative theories and concepts to understand contemporary political debates and controversies.
6.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

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| 1. improve their analytical and writing skills through production of academic texts, which compare, contrast and apply normative frameworks and arguments;<br>2. improve the understanding of different opinions on political and social issues;<br>3. develop awareness about own normative views on social and political issues, in relation to academic discussions about these topics;<br>4. strengthen planning and time-management skills through covering extended readings in an efficient way;<br>5. improve communication skills in respectfully listening to and discussing with people who hold views different from their own;<br>6. strengthen group work skills by, for example, setting shared goals for the group and solving problems as a group. |
| Graded Examination |
| Written assignments (up to 7,000 words) – 80% and practical work – 20%. |
| Pass/Fail Examination |
| Attendance in line with the LAS policy; ungraded written assignments and group work. |

| 7.3 International Relations | | | 00LE62MO-LAS26-4460 |
|---|---|---|---|
| Type of Module | Compulsory for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance. | | |
| Expected Prior Knowledge | Students have engaged with international issues and can approach them in an analytical and critical way. Students have advanced skills in academic communication, in oral and written form, and can provide constructive feedback to peers. Students have advanced experience in group work. Students can manage considerable and regular reading assignments in a structured and efficient way. Students have basic knowledge of political theory and epistemology. Students are ready and sufficiently skilled to formulate and commit to an individually meaningful position on political issues. | | |

Module content & objectives

This foundational module focuses on international governance processes of coordination and interaction on the political, economic, social, cultural or military levels. It allows students to acquire foundational knowledge about ways to study international institutions and processes, such as international organizations, processes of globalization and integration, and international politics more generally. To achieve these objectives, the module combines several learning formats:

- seminar discussions based on readings, class input and other sources;
- individual or small group project work, including presentations;
- if possible, academic visits supporting the increased awareness of institutions and practices of international governance as well as of critical self-reflexivity;
- if applicable, course-specific learning formats such as simulations, and using multi-media material such as movies and images.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. summarize, differentiate between, and provide examples of theoretical and methodological approaches to the study of international governance;
2. explain, choose and appropriately use central concepts and ways of studying institutions and processes in the study of international governance, in an application to historical or current cases;
3. reflect on the use of conceptual frameworks in international governance across academic and policy contexts;
4. improve capacity of rigorous analysis and systematic interpretation of social and political reality in terms of the interaction between the national, regional, and global levels of governance;
5. understand the disciplinary focus of international relations and the value added of using it to study social reality, among social science and other disciplines.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

1. paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;
2. improve awareness about contemporary debates and controversies in the area of international governance, including critical perspectives, and begin forming independent opinion on international politics;
3. improve self-reflexivity about their position as a scholar of international governance.

Graded Examination

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| Written assignments (up to 6,000 words) – 75% and practical work – 25%. |
| Pass/Fail Examination |
| Attendance in line with the LAS policy; ungraded individual and group work. |

| 7.4 Law | | | 00LE62MO-LAS26-4410 |
|---|---|---|---|
| Type of Module | Compulsory for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have engaged with socio-legal issues and can approach them in an analytical and critical way. Students have advanced skills in academic communication, in oral and written form. Students have advanced experience in group work. Students can manage considerable and regular reading assignments in a structured and efficient way. Students have basic knowledge of political theory and epistemology. Students are ready and sufficiently skilled to formulate and commit to an individually meaningful position on socio-legal issues. | | |

Module content & objectives

This foundational module focuses on the interplay between law, society, and politics. It avails students to acquire foundational knowledge about general principles of law and the relation of law to social, political, cultural, economic factors on national, regional and international levels. To achieve these objectives, the module combines several learning formats:

- seminar discussions based on readings, class input and other sources;
- individual or small group project work, including presentations;
- if possible, academic visits supporting the increased awareness of legal institutions and legal practice;
- if applicable, course-specific learning formats, for example, simulations and workshops.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. recognize, explain, summarize, and differentiate between main theoretical and methodological approaches in legal studies and jurisprudence;
2. identify and use the appropriate basic legal vocabulary;
3. select, explain and appropriately apply to contemporary cases or scenarios principal legal concepts, including non-discrimination and equality, the rule of law, judicial review, and human rights;
4. develop awareness about and explain social, political and institutional contexts in which law exists and develops, and begin forming independent opinion on laws, case law, and legal texts;
5. acquire skills to analyze and interpret main principles of law and jurisprudential approaches in legal orders;
6. distinguish and begin to critically reflect on diverse legal forms, legal orders and fields of law (such as criminal law, human rights law, public law);
7. understand the disciplinary focus of legal studies and the value added of using them to study social reality, among social science and other disciplines.

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| In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>1. paraphrase, summarize, compare and produce academic texts on the topics of the module, with appropriate use of legal terminology;<br>2. develop awareness about contemporary issues, debates, and controversies in legal studies;<br>3. improve interdisciplinary thinking by considering legal topics across academic and professional contexts;<br>4. improve self-reflexivity by critically considering the position as a scholar of law and the challenges of integrity. |
| Graded Examination |
| Written assignments (up to 6,000 words) – 40%, written exam – 40% and practical work – 20%. |
| Pass/Fail Examination |
| Attendance in line with the LAS policy; ungraded individual and group work. |

| 7.5 Comparative Politics | | | 00LE62MO-LAS26-4450 |
|---|---|---|---|
| Type of Module | Compulsory for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2-3 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have engaged with socio-political issues and can approach them in an analytical and critical way; have advanced skills in academic communication, in oral and written form; have advanced experience in group work; can manage considerable and regular reading assignments in a structured and efficient way; have basic knowledge of political theory and epistemology; are ready and sufficiently skilled to formulate and commit to an individually meaningful position on political issues. | | |

Module content & objectives

This foundational module allows students to acquire disciplinary knowledge in comparative politics, develop their skills in the application of appropriate methods to the study of political reality, and strengthen their analytical and writing skills. To achieve these objectives, the module is structured around several learning formats:

- interactive input from lecturer (summary of the most important points in the readings, additional knowledge about the topics covered in the readings);
- individual or group exercises (and, if applicable, laboratory work) focused on the application of theory and methodology;
- small group and seminar discussions based on readings and class input.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. summarize, differentiate between and provide examples of the three areas of political science inquiry – polity, politics and policy;
2. explain relations and connections between polity, politics and policy;
3. compare and contrast between the conceptual and theoretical approaches in the study of political reality;
4. choose, explain and appropriately use central concepts and theories of political science to understand contemporary political reality and controversies;
5. recognize and provide examples of the common methodological approaches in the field of comparative politics;
6. understand the disciplinary focus of political science and the value added of using it to study social reality, among social science and other disciplines.

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| In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>1. develop analytical skills in the application of basic methodology, for example, case studies or descriptive statistics;<br>2. develop understanding of the disciplinary borders between political science and closely related fields of study, such as sociology and economics;<br>3. develop self-awareness regarding own academic writing habits in relation to the different stages of writing (outlining, drafting, editing);<br>4. develop skills in both receiving feedback for written work and in using feedback to further improve on the writing skills. |
| Graded Examination |
| Written exam – 50% and written assignments – 50% OR Written assignments (up to 9,000 words) – 100%. |
| Pass/Fail Examination |
| Attendance in line with the LAS policy; ungraded individual and group work. |

| 7.6 Economics | | | 00LE62MO-LAS26-4430 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have engaged with socio-economic issues and can approach them in an analytical and critical way, have advanced skills in academic communication, in oral and written form. Students have advanced experience in group work, can manage regular reading assignments in a structured and efficient way; have basic knowledge of statistics; are ready and sufficiently skilled to formulate and commit to an individually meaningful position on economic issues. | | |

Module content & objectives

This foundational module focuses on the structure and function of economic life and decision-making processes. It allows students to acquire foundational knowledge about the discipline of economics. To achieve these objectives, the module combines several learning formats:

- seminar discussions based on readings, class input and other sources;
- individual or small group project work, including presentations;
- if possible, academic visits supporting the increased (critical) awareness of international, regional or national economic or trade institutions and practices;
- if applicable, course-specific learning formats, for example, simulations and workshops.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. summarize, differentiate between, and provide examples of the main conceptual and methodological approaches to the study of economic activity, markets, and socio-economic structures and institutions;
2. explain, distinguish and appropriately use central concepts of micro- and macro-economics;
3. identify and summarize the argument of specialized texts on regional and global trends and historical and contemporary cases of market processes;
4. improve capacity of analysis and interpretation of social, economic and political reality and trends in the field of economics;
5. understand the disciplinary focus of economics and the value added of using it to study social reality, among social science and other disciplines.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

1. improve the skills in paraphrasing, comparing and producing academic texts on socio-economic reality, with proper use of academic vocabulary and efficient use of academic and other sources;
2. improve awareness about contemporary economic and socio-political debates and controversies, including critical perspectives;
3. improve critical self-awareness about their position as a scholar of economics.

Graded Examination

Oral presentation – 25% and written assignments (up to 6,000 words) – 75% OR oral presentation (up to 25 minutes plus discussion) – 25% and written examination – 75%.

| Pass/Fail Examination |
| --- |
| Attendance in line with the LAS policy; individual and group work. |

| 7.7 Advanced Governance I | | | 00LE62MO-LAS26-4510 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have engaged with socio-political issues and can approach them in an analytical and critical way;have advanced skills in academic communication, in oral and written form; have advanced experience in group work; can manage regular reading assignments in a structured and efficient way. | | |

Module content & objectives

This module allows students to expand or deepen knowledge and skills in one of the five main areas of governance scholarship: political science, global or regional governance, economics, and law. Students may also fill this module with social science courses from other areas of scholarship, especially, from such interdisciplinary areas as political sociology, political ethics or political communication. Such interdisciplinary orientation is at the basis of the design of courses jointly offered by LAS Majors, for example, courses on environmental governance or sustainable economy. The focus of the module should fit the theoretical and methodological profile developed by the student and thus allow for greater flexibility than other foundational modules, also in terms of learning formats.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students are able to:

1. summarize, differentiate between, and provide examples of theoretical and methodological approaches to the study of social, political or economic reality, if applicable, form an interdisciplinary vantage point;
2. explain, choose and appropriately use central concepts and ways of studying governance institutions and processes, in an application to historical or current cases;
3. reflect on the use of conceptual and methodological frameworks in governance across academic and policy contexts.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

1. paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;
2. improve capacity of analysis and interpretation of social and political reality;
3. improve awareness about contemporary debates and controversies in the area covered in the module in academia and beyond academia;
4. improve self-reflexivity about their position as a scholar of governance.

Graded Examination

Variable: written examination, written assignments (up to 7,000 words), oral presentation (up to 45 minutes), or practical work, or a combination thereof. The exact proportions are announced in the course catalog.

Pass/Fail Examination

Attendance in line with the LAS policy; individual and group work.

| 7.8 Advanced Governance II | | | 00LE62MO-LAS26-4510 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have engaged with socio-political issues and can approach them in an analytical and critical way; have advanced skills in academic communication, in oral and written form; have advanced experience in group work; can manage regular reading assignments in a structured and efficient way. | | |

**Module content & objectives**

This module allows students to expand or deepen knowledge and skills in one of the five main areas of governance scholarship: political science, global or regional governance, economics, and law. Students may also fill this module with social science courses from other areas of scholarship, especially, from such interdisciplinary areas as political sociology, political ethics or political communication. Such interdisciplinary orientation is at the basis of the design of courses jointly offered by LAS Majors, for example, courses on environmental governance or sustainable economy. The focus of the module should fit the theoretical and methodological profile developed by the student and thus allow for greater flexibility than other foundational modules, also in terms of learning formats.

**Learning Goals**

In terms of disciplinary knowledge, upon successful completion of the module, the students are able to:

1. summarize, differentiate between, and provide examples of theoretical and methodological approaches to the study of social, political or economic reality, if applicable, form an interdisciplinary vantage point;
2. explain, choose and appropriately use central concepts and ways of studying governance institutions and processes, in an application to historical or current cases;
3. reflect on the use of conceptual and methodological frameworks in governance across academic and policy contexts.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

1. paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;
2. improve capacity of analysis and interpretation of social and political reality;
3. improve awareness about contemporary debates and controversies in the area covered in the module in academia and beyond academia;
4. improve self-reflexivity about their position as a scholar of governance.

**Graded Examination**

Variable: written examination, written assignments (up to 7,000 words), oral presentation (up to 45 minutes), or practical work, or a combination thereof. The exact proportions are announced in the course catalog.

**Pass/Fail Examination**

Attendance in line with the LAS policy; individual and group work.

| 7.9 Methods | | | 00LE62MO-LAS26-4120 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have basic knowledge of epistemology and sociology of knowledge. Students have basic notions of political theory. Students have advanced experience in group work and academic communication. Students can reflect on choices in the process of research on socio-political issues. | | |

Module content & objectives

This foundational module allows students to acquire basic methodological skills for the study of governance processes and institutions. It introduces students to the procedures and standards of data gathering, organization, presentation and analysis used in social and political sciences.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. identify and give examples of common methodological approaches to the study of governance processes and institutions;
2. understand the scope of application, compare different methodological approaches in social and political sciences, and select appropriate methods for the study of socio-political reality;
3. describe and apply the steps of data gathering, organization, presentation and analysis;
4. explain the role of methods in academic inquiry and the research design of academic studies.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:

1. identify, summarize and differentiate between methodological approaches to data on socio-political reality in academic, as compared to non-academic contexts;
2. reflect on the implications of different methods on the validity and reliability of academic studies and on their impact;
3. understand and discuss benefits and limitations of using academic methods and improve self-reflexivity as a scholar of socio-political reality;
4. improve reading and writing skills by focusing on clarity, precision and conciseness in the presentation and discussion of methods of socio-political inquiry.

Graded Examination

Written assignments, including the application of academic methods (up to 8,000 words) – 100% OR Practical work, including the application of academic methods – 100%.

Pass/Fail Examination

Attendance in line with the LAS policy; individual and group work.

| 7.10 Regional and Area Studies | | | 00LE62MO-LAS26-4470 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have engaged with international and regional governance issues and can approach them in an analytical and critical way; have advanced skills in academic communication, in oral and written form, and can provide constructive feedback to peers; have advanced experience in group work; can manage considerable and regular reading assignments in a structured and efficient way; have basic knowledge of political theory and epistemology; are ready and sufficiently skilled to formulate and commit to an individually meaningful position on political issues. | | |

Module content & objectives

This foundational module focuses on regional processes of coordination and integration on the political, economic, social, cultural or military levels. It allows students to acquire foundational knowledge about regional institutions and processes, such as the development and functioning of regional organizations (African Union, Eurasian Economic Union, European Union, etc.), regional cooperation and coordination processes, diplomacy in a region, peace and conflict studies in a region or across regions. To achieve these objectives, the module combines several learning formats:

- seminar discussions based on readings, class input and other sources;
- individual or small group project work, including presentations;
- if possible, academic visits supporting the increased awareness of institutions and practices of international governance as well as of critical self-reflexivity;
- if applicable, course-specific learning formats such as simulations.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students are able to:

1. summarize, differentiate between, and provide examples of theoretical and methodological approaches to the study of regional policy and cooperation;
2. explain, choose and appropriately use central concepts and ways of studying institutions and processes of regional policy and cooperation, in an application to historical or current cases;
3. reflect on the use of conceptual frameworks in regional policy and cooperation across academic and policy contexts.

In terms of academic skills and social and personal competences, upon successful completion of the module, the students are able to:

1. paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;
2. improve capacity of analysis and interpretation of social and political reality in terms of the interaction between the local, national, and regional levels of governance;
3. improve awareness about contemporary debates and controversies in the area of regional policy and cooperation, including critical perspectives;
4. improve self-reflexivity about their position as a scholar of regional policy and cooperation.

Graded Examination

Written assignments (up to 5,000 words) – 60% and Written exam – 40% OR Written assignments (up to 5,000 words) – 60 % and Practical work – 40% OR Written exam – 60% and practical work – 40%.

Pass/Fail Examination

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| Attendance in line with the LAS policy; individual and group work. |

| 7.11 Research in an Area of Governance | | | 00LE62MO-LAS26-4540 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Senior Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of four Compulsory modules, including the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have considerable experience of engaging with socio-political, socio-economic and socio-legal issues and have advanced skills in analytically and critically engaging with them; have excellent skills in academic communication (including full and precise referencing) and first experience of planning and carrying out independent research projects on small scale (for example, course papers); have basic notions of academic research methods; have an understanding of epistemological choices in research; have solid notions of political theory; have considerable experience in group work and individual work, including feedback and time management; can efficiently manage considerable and regular reading assignments; can form and commit to specific analytical positions on socio-political issues and adapt them in a reflective way. | | |

Module content & objectives

This senior research-oriented module allows students to develop research skills in a particular area of social and political sciences or legal studies. A central component of the module is an independent research project. Learning formats:

- individual or group exercises focused on the application of theoretical and methodological frameworks in research;
- group discussion based on readings, individual research and class input;
- independent research project;
- if possible, academic visits or expert talks supporting the increased awareness of different contexts of research production and reception as well as of integrity and ethical standards;
- if applicable, course-specific learning formats such as laboratory work, simulations, presentations and workshops.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. identify, describe, illustrate, compare and assess the main conceptual and theoretical frameworks used in the study of a specific social, legal or political issue;
2. list, describe, compare, justify and evaluate methodological approaches to the study of a specific social, legal or political issue;
3. choose and apply a theoretical and methodological approach in an individual or group course-specific project;
4. produce a research paper corresponding to the disciplinary standards, including the explanation, justification and evaluation of the theoretical and methodological approach.

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| In terms of skills and competences, upon successful completion of the module, the students should be able to:<br>1. improve the understanding of the appropriate context and strengths and weaknesses of the theoretical and methodological options in the study of a specific issue;<br>2. increase the ability to integrate knowledge from different contexts;<br>3. plan, manage and complete an independent research project of a limited scale;<br>4. develop academic integrity and apply ethical guidelines in carrying out the independent project. |
| Graded Examination |
| Written assignments (up to 10,000 words), including a research paper (for at least 50% overall) – 100% OR Oral presentation – 25% and Written assignments (up to 9,000 words) – 75%, including a research paper (for at least 50% overall). |
| Pass/Fail Examination |
| Attendance in line with the LAS policy; individual and group work. |

| 7.12 Specialization Governance | | | 00LE62MO-LAS26-4630 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Senior Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of four Compulsory modules, including the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have considerable experience of engaging with socio-political, socio-economic and socio-legal issues and have advanced skills in analytically and critically engaging with them; have solid skills in academic communication, including thorough engagement with sources (e.g. referencing); have solid notions of political theory and advanced notions of epistemology; have basic knowledge in economics, comparative politics and international relations; have considerable experience in group work and individual work, including feedback and time management; can efficiently manage considerable and regular reading assignments at a high academic level (advanced sources); can form and commit to specific analytical positions on socio-political issues and adapt them in a reflective way. | | |

Module content & objectives

This senior module allows students to develop deep knowledge and improved academic skills in a particular area of social and political sciences or legal studies. The defining characteristic of the module is a thorough, in-depth treatment of a case, theory, approach or time period within a social, political or legal discipline. The focus of the module should fit the theoretical and methodological profile developed by the student and thus allow for flexibility. To achieve the learning objectives, the module may use a combination of learning formats:

- individual or group exercises focused on in-depth study of a social political or legal issue;
- group discussion based on readings, individual research and class input;
- independent research;
- if possible, academic visits or expert talks supporting the increased awareness of different contexts and practical applications of scholarly knowledge in the area;
- if applicable, course-specific learning formats as laboratory work, simulations, presentations and workshops.

| Learning Goals |
| --- |
| In terms of disciplinary knowledge, upon successful completion of the module, the students are able to:<br>1. identify, describe, illustrate, compare and assess the main theories, sources and authors in the study of a specific social, legal or political issue;<br>2. choose and apply a theoretical or methodological approach in an individual or group course-specific assignment;<br>3. recognize, use and evaluate area-specific standards of establishing and assessing facts, arguments and models.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students are able to:<br>1. improve the understanding of the appropriate context and strengths and weaknesses of the theoretical options and practical applications in the study of a specific issue;<br>2. increase the ability to integrate knowledge from different contexts;<br>3. improve the ability to conduct independent research;<br>4. strengthen self-reflexivity and, when relevant, teamwork. |
| Graded Examination |
| Written assignments (up to 9,000 words) – 100% OR Written assignments (up to 7,000 words) – 75% and Oral presentation – 25% OR Practical work – 100%. |
| Pass/Fail Examination |
| Attendance in line with the LAS policy; individual and group work. |

| 7.13 Senior Profile Governance | | | 00LE62MO-LAS26-4550 |
|---|---|---|---|
| Type of Module | Profile module for Governance Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 12 |
| Workload | 360h | Duration of Module | 2 semesters |
| Course Format / Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of four Compulsory modules, including the module Introduction to Governance | | |
| Expected Prior Knowledge | Students have considerable experience of engaging with socio-political, socio-economic and socio-legal issues and have advanced skills in analytically and critically engaging with them; can form and commit to specific analytical positions on socio-political issues and adapt them in a reflective way; have solid skills in academic communication, group work and individual work, including providing feedback and time management; have reflected on their learning progress and learning profile; can efficiently manage multiple assignments at a high academic level. | | |

Module content & objectives

This senior module allows students to integrate knowledge acquired within the study program and to improve academic, social and personal skills in an individually meaningful way. In this module, students can develop a profile by mobilizing knowledge and skills towards their professional goals. In terms of format, this module allows for the greatest flexibility among senior modules, but excludes purely content-oriented courses, such as those treating socio-economic and socio-political issues at a senior level. To achieve the learning objectives, the module may use a combination of the following learning formats:

- seminar on project design, specifically, on the development and management of research projects or practical projects;
- individual or group exercises and projects focused on reflection upon and integration of interdisciplinary knowledge within the Major and between the Major and other areas of study;
- independent or group research project or a Major-related practical project;
- courses aimed at obtaining or developing career-related skills and competences, such as professional skills and knowledge;
- Major-related mentoring;
- Major-related internship;
- participation in academic communication, dissemination, popularization and interpretation of social science knowledge;
- if relevant, laboratory work, simulations, presentations and workshops.

Learning Goals

In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:

1. identify, describe, illustrate, compare and assess the ways to integrate knowledge about social, political and economic reality across disciplines and contexts;
2. choose, adapt and assess the use of disciplinary and interdisciplinary vocabulary, and ways of presenting and communicating knowledge about social, political and economic reality.

| |
|---|
| In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>1. reflect on and evaluate the use of factual, conceptual and procedural knowledge across contexts and disciplines;<br>2. asses, choose and adapt ways of communicating knowledge across academic and non-academic contexts;<br>3. describe, apply and differentiate between working and learning strategies, including planning and problem-solving strategies;<br>4. develop self-awareness as responsible producers and communicators of knowledge;<br>5. improve the ability to conduct independent and group projects. |
| Graded Examination |
| Written assignments (up to 12,000 words) – 100% OR Oral presentation – 100% OR Practical work – 100%.<br>The graded element of the module consists of at least 4 ECTS. |
| Pass/Fail Examination |
| Ungraded individual and group work. |

## 8 Modules of the Major Life Sciences

### Study Plan

We recommend following this model until semester 4. Then, course selection becomes more flexible. You can take Responsibility and Leadership II and Advanced Academic Skills through years 2-4.

| Year | Winter Semester | Summer Semester |
|---|---|---|
| 1 | Knowledge in Context (8) | Statistics (6) |
| | Research and Presentation (6) | Introduction to LS (8) |
| | English Academic Writing (6) | Introduction to Major (8) |
| | Responsibility & Leadership I (4) | Introduction to Major (8) |
| | Language (4) / Elective (6) | |
| 2 | Theory of Knowledge (8) | Theory of Science (8) |
| | Maths for the Sciences (6) | Cell Biology (6) |
| | Physiology (6) | Lab Work/Methods (6) |
| | Foundational Chemistry (6) | Lab Work/Methods (6) |
| | Elective | Elective |
| 3 | Lab Work/Methods (6) | Advanced Life Sciences (6) |
| | Advanced Life Sciences (6) | Specialization Life Sciences I (6) |
| | Advanced Life Sciences (6) | Specialization Life Sciences II (6) |
| | Elective | Elective |
| | Study Abroad (optional) | |
| 4 | Senior Profile (12) | Science in Context (8) |
| | | Bachelor Thesis (12) |
| | | |
| | Elective | Elective |

| 8.1 Introduction to Life Sciences | | | 00LE62MO-LAS26-5100 |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Compulsory Elective for other Majors (Multidisciplinarity) | | |
| Frequency | Summer Semester | Year of Studies | 1 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 8 |
| Workload | 240h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Knowledge about biology at the level of a high school graduate. | | |

**Module content & objectives**

The module introduces topics from different fields of the Life Sciences. In particular, it covers the structure and function of biological and cognitive systems that allow humans to react to and interact with a complex environment. Different levels of analysis are addressed including the behavioral level, the organ level, the physiological level and the cellular level.

Besides the structures and processes within and across these levels of analysis, the module introduces the Scientific Method as the currently predominant way of knowledge acquisition in the Life Sciences.

In workgroups students approach selected problems from the abovementioned fields and deepen their knowledge in a single topic.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe relevant structures and processes of selected biological and cognitive systems in humans,
2. explain one topic of the course on an advanced level,
3. accomplish a research task on a problem or case from the Life Sciences

**Graded Examination**

Written exam(s) of 90-120 minutes in total (details will be specified in the course catalog).

**Pass/Fail Examination**

Attendance in line with the LAS policy and regular contribution to the PBL group.

| 8.2 Cell Biology | | | 00LE62MO-LAS26-5150 |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Knowledge about biology at the level of a high school graduate. | | |

**Module content & objectives**

The module introduces the structure and functions of the different components of eukaryotic cells. This includes the structure and function of different cell organelles and analyses of cellular processes as well as their regulation. Topics may include, but are not limited to, cell formation, motility, and division, cell-to-cell interaction, endocytosis, exocytosis, intracellular transport, protein sorting, trafficking, and targeting, and gene expression.

The module puts emphasis on how cellular processes mediate processes occurring on the chemical level on the one hand and the physiological level on the other hand and shows how processes on the different levels are closely related.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. describe the structure and molecular functions of living cells
2. explain one topic of the course on an advanced level
3. be able to identify cell structures using an optical microscope

**Graded Examination**

Written exam(s) of 90 minutes in total (details will be specified in the course catalog).

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.3 Foundational Chemistry | | | 00LE62MO-LAS26-5130 |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Knowledge about chemistry at the level of a high school graduate. | | |

**Module content & objectives**

This module introduces biochemical reactions and signaling pathways relevant to understand intra- and inter-cellular processes. This may include, but is not limited to, signal transduction (cellular receptors and signaling chains), metabolic processes (e.g. ATP synthase through the citric acid cycle), protein biosynthesis, and molecular genetics. For this, it will introduce the four major classes of molecules that are involved in the chemistry of a living cell, namely carbohydrates, lipids, amino acids and their polymers, proteins, as well as nucleic acids and their polymers, DNA and RNA.

The module puts particular emphasis on molecular reactions playing a role in cellular functions and physiological processes and points out how pathways on different levels of consideration (molecular, cellular, supra-cellular, systemic) interact and rely on each other.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. explain chemical pathways that run a cell;
2. describe the basic molecules involved in biochemical reactions and understand what role these molecules play in different cellular functions
3. describe the role of intracellular reactions in relation to cellular activities and physiological processes

**Graded Examination**

Written exam(s) of 90 minutes in total (details will be specified in the course catalog).

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.4 Mathematics for the Sciences | | | 00LE62MO-LAS26-5110 |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Compulsory for Environmental and Sustainability Sciences Major<br>Elective for Governance Major and Culture and History Major | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Knowledge about mathematics at the level of a high school graduate. | | |

**Module content & objectives**

This module introduces basic concepts of mathematics, including, but not limited to analysis and algebra. It covers both, theoretical concepts of mathematics as well as their application in the context of the sciences in general. In this respect the module covers mathematics as it is needed for the Majors Environmental and Sustainability Sciences and Life Sciences.

Accordingly, most mathematical concepts will be taught with their application in the sciences in mind (e. g. properties of functions, derivatives, integrals, and geometrical vectors), enabling students to conduct quantitative analyses of simple mathematical problems.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. master basic concepts of analysis and linear algebra,
2. identify appropriate mathematical approaches to treat given problems, and solve the latter accordingly in a quantitative way,
3. recognize abstract concepts behind a given problem to find similarities to already known situations.

**Graded Examination**

Written exam(s) of 90 minutes in total (details will be specified in the course catalog).

**Pass/Fail Examination**

Submission of exercise sheets

| 8.5 Physiology | | | 00LE62MO-LAS26-5140 |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | Yearly | Year of Studies | 2 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | none | | |
| Expected Prior Knowledge | Students should be familiar with the content of the module Cell Biology. | | |

**Module content & objectives**

The module introduces physiological concepts of body systems including their structure and functions in the context of maintaining homeostasis. Topics may include, but are not limited to, the immune system, the respiratory system, the circulatory system, the urinary system, the nervous system, the endocrine system, and the muscular system. At least one of these systems will be covered in-depth.

Particular emphasis will be put on the regulation of these systems and their interaction with other systems as well as their adaption to changes in the environment. Mechanisms of regulation will be discussed on different levels (molecular, cellular, systems level).

**Learning Goals**

Upon successful completion of this module, students are able to…

1. differentiate between and describe different physiological systems
2. explain one physiological system in-depth
3. understand how different systems interact

**Graded Examination**

Written exam(s) of 90 minutes in total (details will be specified in the course catalog).

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.6 Advanced Life Sciences I | | | 00LE62MO-LAS26-5510 |
|---|---|---|---|
| Type of Module | Profile module for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once a year | Year of Studies | 2-3 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences | | |

**Module content & objectives**

In this module, students deepen and extend their knowledge in one of the fields of the Life Sciences. They can choose among courses offered in the fields of molecular biology, biomedicine, genetics and epigenetics, cognitive and neurosciences, immunology, biotechnology, engineering for biological and medical purposes, biological and forensic anthropology, public health, medical humanities or other fields from the life sciences.

The choice of the course should be in line with the student's aspired academic profile and is supported through consultation with the major coordinator and the academic advisor.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. summarize and explain important theoretical concepts, structures, and processes from the chosen field,
2. name and describe methods that are used to obtain evidence for the abovementioned concepts, structures, and processes,
3. relate the abovementioned concepts, structures, and processes to neighboring fields and across disciplines.

**Graded Examination**

Oral presentation of no more than 30 minutes (30%) and a form of written examination, written assignment or practical work of no more than 3,000 words (70%) depending on the course chosen.

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.7 Laboratory Work for the Life Sciences | | | 00LE62MO-LAS26-5120 |
|---|---|---|---|
| Type of Module | Compulsory module for Life Sciences Major | | |
| Frequency | continuously | Year of Studies | 2, 3 or 4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (160h lab work + 20 h writing a report) | Duration of Module | Variable |
| Course Format / Teaching Methods | Laboratory Internship | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences | | |
| Expected Prior Knowledge | Before students do practical work in a lab, they should be familiar with the content of the modules Foundational Chemistry and Cell Biology. | | |

**Module content & objectives**

In this module students do practical work in a scientific laboratory in one of the disciplines of the Life Sciences. It covers basic procedures carried out in the respective laboratory. This includes, for example, lab safety, general basic lab skills (e.g. pipetting), taking care of study participants, handling of specific instruments, machines and routines, typical experimental set-ups, and handling of laboratory animals.

Students cover the module by doing an internship in a recognized research facility. They select and apply for a lab in agreement with the course coordinator. Additional guidelines apply and are available on ILIAS.

**Learning Goals**

Upon successful completion of this module, students are able to

1. behave in a laboratory space safely,
2. carry out basic procedures typical for the lab of their choice,
3. describe and reflect upon the working procedures carried out in the lab in the context of the institution and the project they worked on

**Graded Examination**

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**Pass/Fail Examination**

Active lab work and a written report of 3,000-3,500 words.

| 8.8 Advanced Life Sciences II | | | 00LE62MO-LAS26-5520 |
|---|---|---|---|
| Type of Module | Profile module for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once a year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences | | |

**Module content & objectives**

In this module, students deepen and extend their knowledge in one of the fields of the Life Sciences. They can choose among courses offered in the fields of molecular biology, biomedicine, genetics and epigenetics, cognitive and neurosciences, immunology, biotechnology, engineering for biological and medical purposes, biological and forensic anthropology, public health, medical humanities or other fields from the life sciences.

The choice of the course should be in line with the student's aspired academic profile and is supported through consultation with the major coordinator and the academic advisor.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. summarize and explain important theoretical concepts, structures, and processes from the chosen field
2. name and describe methods that are used to obtain evidence for the abovementioned concepts, structures, and processes
3. relate the abovementioned concepts, structures, and processes to neighbouring fields and across disciplines

**Graded Examination**

Oral presentation of no more than 30 minutes (30%) and a form of written examination, written assignment or practical work of no more than 3,000 words (70%) depending on the course chosen.

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| **8.9 Methods** | | | **00LE62MO-LAS26-5160** |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once a year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences | | |

Module content & objectives

In this module students acquire knowledge about the theoretical basis *of* and develop skills *in* the application of a research method or a research approach. The course taken for this module must cover one of the approaches listed in the module Quantitative Methods or one of the following: a particular research procedure (e.g. Polymerase Chain Reaction), developing and conducting an experiment, using complex research instruments (e.g. different types of microscopes), developing and using questionnaires, conducting and analyzing interviews or any other research method from a neighboring field.

Learning Goals

Upon successful completion of this module, students are able to…

1. explain the theoretical background of a particular research method and justify its application
2. apply the method successfully in a research context
3. describe the application procedure and the obtained results according to academic standards

Graded Examination

Written assignment or practical work. Details will be announced in the course catalog.

Pass/Fail Examination

Attendance in line with the LAS policy.

| **8.10 Quantitative Methods** | | | **00LE62MO-LAS26-5410** |
|---|---|---|---|
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once a year | Year of Studies | 2-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences | | |

Module content & objectives

In this module students acquire knowledge about the theoretical basis *of* and develop skills *in* the application of a quantitative research method used in the Life Sciences. This may include, but is not limited to, advanced data science methods, statistical analyses or computational approaches.

Learning Goals

Upon successful completion of this module, students are able to…

1. explain the theoretical background of a particular research method and justify its application
2. apply the method successfully in a research context
3. describe the application procedure and the obtained results according to academic standards

Graded Examination

Written examination, written assignment or practical work. Details will be announced in the course catalog.

Pass/Fail Examination

Attendance in line with the LAS policy.

| 8.11 Advanced Life Sciences III | | | 00LE62MO-LAS26-5530 |
|---|---|---|---|
| Type of Module | Profile module for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences | | |
| Expected Prior Knowledge | | | |

**Module content & objectives**

In this module, students deepen and extend their knowledge in one of the fields of the Life Sciences. They can choose among courses offered in the fields of molecular biology, biomedicine, genetics and epigenetics, cognitive and neurosciences, immunology, biotechnology, engineering for biological and medical purposes, biological and forensic anthropology, public health, medical humanities or other fields from the life sciences.

The choice of the course should be in line with the student's aspired academic profile and is supported through consultation with the major coordinator and the academic advisor.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. summarize and explain important theoretical concepts, structures, and processes from the chosen field
2. name and describe methods that are used to obtain evidence for the abovementioned concepts, structures, and processes
3. relate the abovementioned concepts, structures, and processes to neighbouring fields and across disciplines

**Graded Examination**

Oral presentation of no more than 30 minutes (30%) and a form of written examination, written assignment or practical work of no more than 3,000 words (70%) depending on the course chosen.

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.12 Specialization I: Life Sciences | | | 00LE62MO-LAS26-5610 |
|---|---|---|---|
| Type of Module | Profile module for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences and at least two other profile modules (Wahlpflichtmodule: Profilierung) | | |
| Expected Prior Knowledge | | | |

**Module content & objectives**

Students develop in-depth knowledge and advanced academic skills regarding a narrow topic from one of the following fields: molecular biology, biomedicine, genetics and epigenetics, cognitive and neurosciences, immunology, biotechnology, engineering for biological and medical purposes, biological and forensic anthropology, public health, medical humanities or other fields from the life sciences

The module addresses a focused topic in its full range and puts emphasis on research related to it. Theoretical and methodological aspects are discussed in-depth, and they are compared to other research in the field.

The choice of the course should be in line with the student's aspired academic profile and is supported through consultation with the major coordinator and the academic advisor.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. demonstrate deep and reflected knowledge about the topic,
2. assess and compare methods that are relevant in the context of the topic,
3. assess and reflect on published research related to the topic.

**Graded Examination**

Oral presentation of no more than 30 minutes (30%) and a form of written examination, written assignment or practical work of no more than 3,000 words (70%) depending on the course chosen.

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.13 Specialization II: Life Sciences | | | 00LE62MO-LAS26-5620 |
|---|---|---|---|
| Type of Module | Profile module for Life Sciences Major<br>Elective for other Majors | | |
| Frequency | At least once per year | Year of Studies | 3-4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 6 |
| Workload | 180h (40h instruction time) | Duration of Module | 1 semester |
| Course Format / Teaching Methods | Seminar | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences and at least two other profile modules (Wahlpflichtmodule: Profilierung) | | |
| Expected Prior Knowledge | | | |

**Module content & objectives**

Students develop in-depth knowledge and advanced academic skills regarding a narrow topic from one of the following fields: molecular biology, biomedicine, genetics and epigenetics, cognitive and neurosciences, immunology, biotechnology, engineering for biological and medical purposes, biological and forensic anthropology, public health, medical humanities or other fields from the life sciences

The module addresses a focused topic in its full range and puts emphasis on research related to it. Theoretical and methodological aspects are discussed in-depth, and they are compared to other research in the field.

The choice of the course should be in line with the student's aspired academic profile and is supported through consultation with the major coordinator and the academic advisor.

**Learning Goals**

Upon successful completion of this module, students are able to…

1. demonstrate deep and reflected knowledge about the topic,
2. assess and compare methods that are relevant in the context of the topic,
3. assess and reflect on published research related to the topic.

**Graded Examination**

Oral presentation of no more than 30 minutes (30%) and a form of written examination, written assignment or practical work of no more than 3,000 words (70%) depending on the course chosen.

**Pass/Fail Examination**

Attendance in line with the LAS policy.

| 8.14 Senior Profile: Life Sciences | | | 00LE62MO-LAS26-5630 |
|---|---|---|---|
| Type of Module | Profile module for Life Sciences Major | | |
| Frequency | Winter semester | Year of Studies | 4 |
| Contact Hours | 3,5 SWS (à 45 min) | Credit Points | 12 |
| Workload | 360h | Duration of Module | 2 semesters |
| Course Format / Teaching Methods | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences and at least two other profile modules (Wahlpflichtmodule: Profilierung) | | |
| Expected Prior Knowledge | Introductory and intermediate academic work in the life sciences. | | |

Module content & objectives

For the senior profile module students integrate knowledge acquired within the study program and improve their academic, social and personal skills in an individually meaningful way. In this module, students can develop a profile by mobilizing knowledge and skills towards their professional goals. In terms of format, this module allows for the greatest flexibility among senior modules. To achieve the learning objectives, the module may use a combination of the following learning formats:

- seminar on project design (e.g. planning and preparing a (research) project; discussing methodological approaches; project management);
- independent or group research project or a Major-related practical project including, but not limited to a supervised independent study;
- individual or group exercises and projects focused on reflexion upon and integration of interdisciplinary knowledge within the Major and between the Major and other areas of study;
- participation in academic communication, dissemination, popularization and interpretation of scientific knowledge (e.g. attending academic talks; presenting at student conferences or in a colloquium; explaining their work to expert and non-expert audiences).

Upon successful completion of this module, students are able to…

1. reflect on and evaluate the use of factual, conceptual and procedural knowledge across contexts and disciplines,
2. choose and assess ways of communicating knowledge across academic and non-academic contexts,
3. describe, apply and differentiate between working and learning strategies, including planning and problem-solving strategies,
4. develop self-awareness as producers and communicators of knowledge.

Graded Examination

Written assignment or practical work or oral examination, depending on the course chosen.

Pass/Fail Examination

Attendance in line with the LAS policy.

## 9 Electives

Electives allow students to supplement their Major and to shape their specific academic profile. Students must earn a total of 60 ECTS credits in the electives section. A minimum of 24 ECTS credits must be acquired from modules requiring a graded examination.
Academic advisors are ready to support students in making well-informed and meaningful choices regarding their Electives.

| **Elective Courses** | | | |
|---|---|---|---|
| Course Format / Teaching Methods | Variable | Year of Studies | 1-4 |
| Language | Variable | Credit Points | Variable |
| Prerequisites | None | | |
| Module Coordinator | Variable | | |
| Content & objectives | | | |
| At least 30 ECTS credits have to be earned in the following sections:<br>▪ Electives courses offered by UCF;<br>▪ Major courses offered by UCF;<br>▪ suitable courses that are part of other degree programs at the University of Freiburg;<br>▪ courses taken during the study abroad with prior approval by the Board of Examiners;<br>▪ language courses offered by the Language Teaching Centre of the University of Freiburg or by other degree programs at the University of Freiburg.<br>Offers from this list may be taken multiple times with different courses; each completed course is credited as a separate module within the elective area. | | | |
| Learning Goals | | | |
| Upon successful completion of this module, students have given shape to their individual academic profile. Depending on their intellectual interest and future plans, students will have deepened or broadened their studies. | | | |
| Graded Examination | | | |
| Variable, as announced for the respective course in the course catalog. | | | |
| Pass/Fail Examination | | | |
| Variable, as announced for the respective course in the course catalog. | | | |

| **Internships or Practical Projects** | | | |
|---|---|---|---|
| Course Format / Teaching Methods | Variable | Year of Studies | 1-4 |
| Language | Variable | Credit Points | up to 16 |
| Prerequisites | None | | |
| Module Coordinator | Variable | | |

Module content & objectives

LAS seeks to be supportive of the professional and career aspirations of its students. To that end, internships (e.g., in a company, a branch of government, an NGO, ...) and practical projects (e.g., in the fields of education, social work, the arts) can receive ECTS credit to the extent that they are academically relevant and undertaken as a form of self-directed inquiry. Credit for internships and projects is assessed as pass/fail (Studienleistung) and contributes to the Electives.

In an internship, the employer normally defines the day-to-day tasks of the intern. In a practical project, students must determine for themselves how they will cooperate with an organization. In both cases, students must work with a recognized institution (a business, NGO, museum, educational organization, etc.).

Credit recognition is based on the quantity of academically relevant work and study hours, not the total time invested. Internships and projects should be congruent with the academic and professional goals and should tangibly contribute to the intellectual development or the knowledge base of the student.

Learning Goals

Upon successful completion of an internship or practical projects, students are able to:

- apply academic contents to practical fields;
- assess and reflect transdisciplinary experience in the context of their study program.

Graded Examination

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Pass/Fail Examination

Proposal/project description (800-1000 words); project report (500-1000 words); academic report (1000-3000 words).

| **Supervised Independent Studies** | | | |
|---|---|---|---|
| Course Format / Teaching Methods | Variable | Year of Studies | 3-4 |
| Language | Variable | Credit Points | up to 12 |
| Prerequisites | None | | |
| Expected Prior Knowledge | Students are familiar with advanced research methods in the field they engage in. They have passed at least one basic course that relates to the content of their Independent Studies. | | |
| Module Coordinator | Variable | | |

Module content & objectives

In order to create flexibility in the curriculum and to promote self-motivated study, students can receive credit for Supervised Independent Study (SIS). SIS is reserved for advanced students in their 3rd or 4th year of study. It is designed for exceptionally motivated students to develop research knowledge and skills that might be hard to obtain in normal coursework (e.g., to prepare for their Bachelor Thesis or enter a Master program). SIS can take a variety of forms, depending on disciplinary norms and the goals of the students. In all cases, the SIS should meet the research standards of the field (at the bachelor level).

Detailed information on requirements and application procedures is available on the Info Board on ILIAS.

Learning Goals

Students successfully completing an SIS have improved their ability to conduct independent research and are able to:

1. identify, compare, and assess the possibilities and limits of the methods, theories, and/or concepts relevant to the research area;
2. choose and apply a methodological or theoretical approach in their own research.

Graded Examination

Written assignment: Proposal (800-1250 words), Study Report (500-1000 words); Academic Report (2500-5000 words).

Pass/Fail Examination

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| **Frontiers of Knowledge** | | | |
|---|---|---|---|
| Course Format / Teaching Methods | Variable | Year of Studies | 3-4 |
| Language | Variable | Credit Points | 2 |
| Prerequisites | None | | |
| Module Coordinator | Variable | | |

Module content & objectives

LAS supports students' participation in a research community or the academic community of the University of Freiburg. One way for students to enter these communities is through participation in an academic event (e.g., talk series, colloquia, symposia, conferences, summer schools, etc.; informational and organizational meetings, guest lectures by politicians or cultural figures, or celebrations are not academic events).

Frontiers of Knowledge is intended for advanced LAS students who wish to develop their knowledge and understanding in a particular research field. Taking the module is especially encouraged in conjunction with the Bachelor Thesis or a Supervised Independent Study and may also be useful for students preparing for a particular master's program.

Learning Goals

Upon successful completion of this module, students

- report on advanced academic formats,
- reflect on advanced contents in light of their own academic experience.

Graded Examination

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Pass/Fail Examination

Participation in an academic event with annotated bibliography (1200-1500 words) and documentation (500 words) and a final written assignment (1500 words).

## 10 Bachelor Thesis

| **Bachelor Thesis** | | | |
|---|---|---|---|
| Type of Module | Compulsory per Major | | |
| Frequency | / | Year of Studies | 4 |
| Contact Hours | / | Credit Points | 12 |
| Workload | 360 h | Duration of Module | 1 Semester |
| Course Format / Teaching Methods | / | Language | English |
| Module Coordinators | Dr. Simon Büchner, Dr. Liudmila Mikalayeva, Dr. Ryan Plumley, Dr. Sabine Sané | | |
| Prerequisites | A minimum of 150 ECTS credits, at least 60 of which must be in the chosen major (see examination rules § 21). | | |
| Expected Prior Knowledge | Students …<br>▪ have passed the basic compulsory modules of their major;<br>▪ have passed most of the compulsory elective modules of their major;<br>▪ are familiar with the research methods in their field of study. | | |
| Module content & objectives | | | |
| The bachelor's thesis is a written research paper in which the students should show themselves capable of using academic and/or scientific methods to independently research a topic in their chosen major and of presenting their findings in an adequate manner, all within a limited timeframe. The Bachelor Thesis can employ a disciplinary or interdisciplinary approach. | | | |
| Learning Goals | | | |
| Upon successful completion of the Bachelor Thesis, students are able to…<br>1. plan and pursue a research project independently by including advice from their supervisor<br>2. define a research topic / formulate a research question<br>3. find and review literature on a particular topic<br>4. describe and justify and carry out the methodological approach<br>5. present and assess findings in the context of the research topic and of the relevant scholarly discourse or state of the art<br>6. discuss the findings critically and contextualize the results | | | |
| Graded Examination | | | |
| Written research paper of no more than 12,000 words (including footnotes or endnotes; excluding the bibliography and annexes and the abstract of max. 300 words). | | | |
| Pass/Fail Examination | | | |
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**University College Freiburg**
University of Freiburg
Bertoldstraße 17
79085 Freiburg, Germany
Tel. +49 761 203-67342
**studyinfo@ucf.uni-freiburg.de**

For more information, please
visit uni-freiburg.de/ucf
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