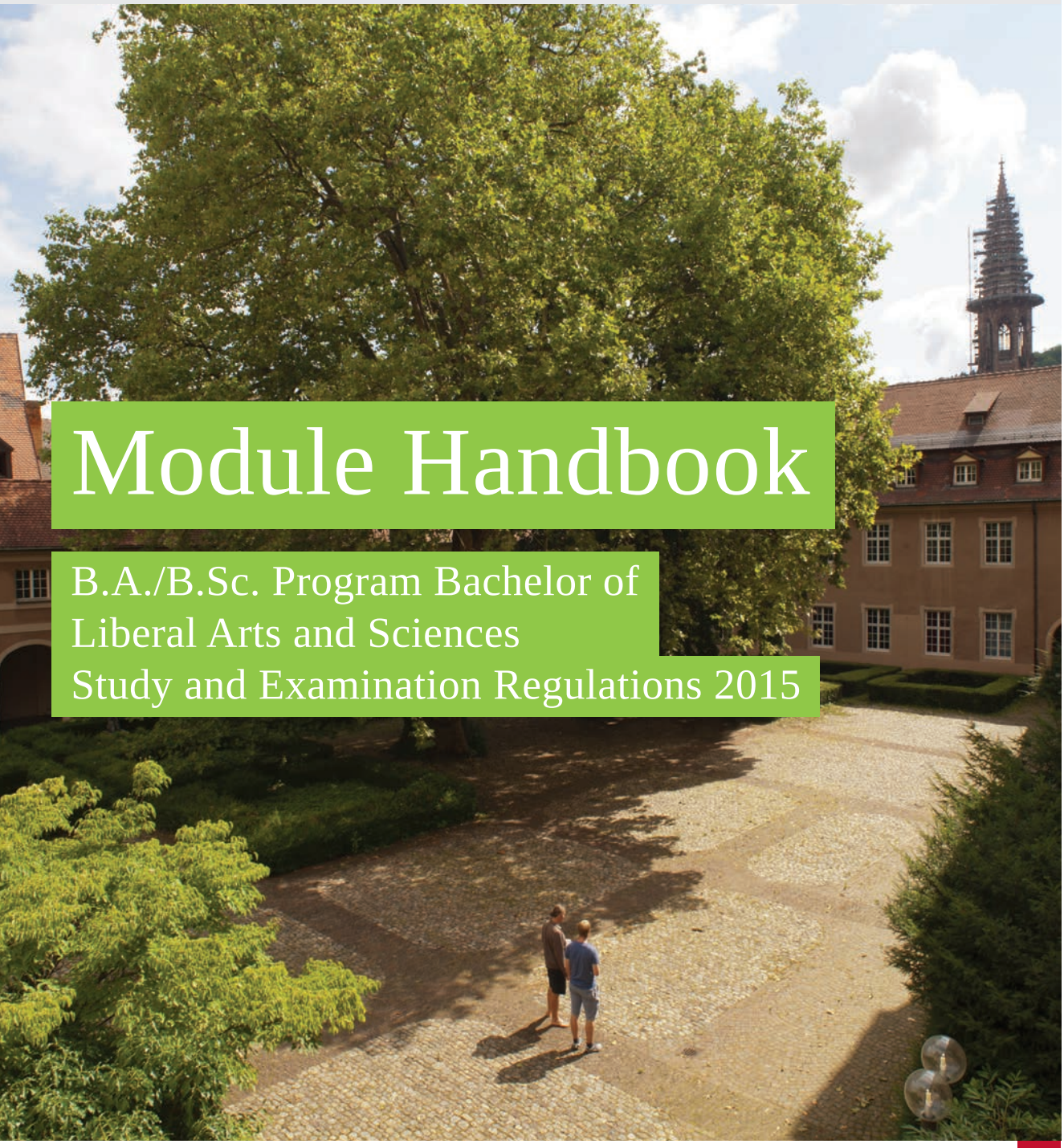
UNIVERSITY COLLEGE FREIBURG



# Module Handbook

## B.A./B.Sc. Program Bachelor of Liberal Arts and Sciences Study and Examination Regulations 2015

Albert-Ludwigs-Universität Freiburg

UNI FREIBURG

# Contents

## 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 Bachelor of Liberal Arts and Sciences Study and Examination Regulations (4th amendment) that were passed (in German) by the University Senate in its meeting in December 2015 (see Official Bulletins Volume 46, No. 74, pp. 425–427). Courses that can be taken to fulfill these modules are listed in the LAS Course Catalog of the respective semester.

## Educational Goals

The LAS Program aims to educate responsible citizens who are able to approach complex problems from multiple perspectives. Rather than aiming to prepare students for a specific profession, it equips them for civic engagement and a range of careers in a changing labor market in and outside academia. To this end, the program fosters a process of intellectual growth and personal development in an interdisciplinary and international learning community. For students interested in an academic career, it provides an excellent basis for entrance into (specialized) Master and PhD programs.

The primary educational goals of LAS are rooted in the tradition of liberal education and aligned with the educational goals of the University of Freiburg as well as the mission of University College Freiburg. The program aims to develop and cultivate students’

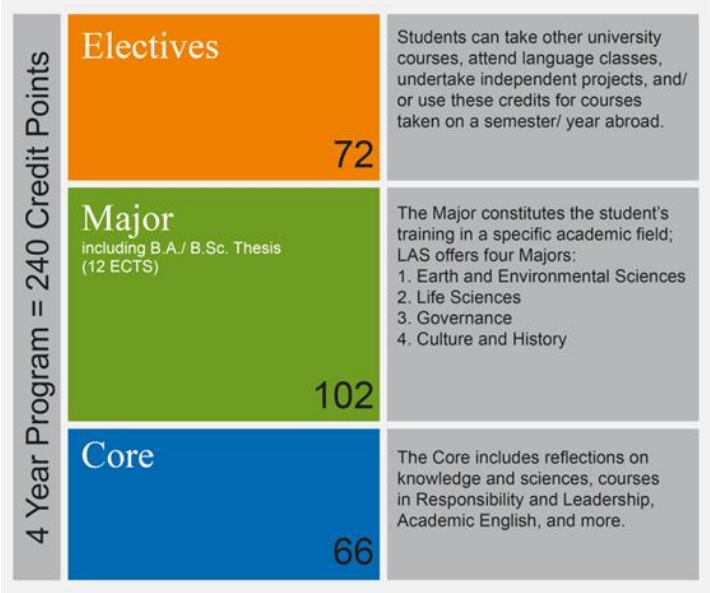
- intellectual curiosity and eagerness for lifelong learning in ways suited to their aspirations
- interdisciplinary versatility and ability to approach complex questions from multiple points of view
- specialized academic knowledge and disciplinary methodological skills
- critical thinking and ability 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.

## Principles and Curriculum Design

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: combining specialization at a high academic level (Major) with a broad interdisciplinary foundation (Core and Electives)
- Structure & Freedom: combining an educational framework of required Modules (Core Modules and basic Major Modules) with a substantial degree of freedom for students to develop their own study profile (advanced Major Modules and Electives)

The curriculum consists of three integrated components:



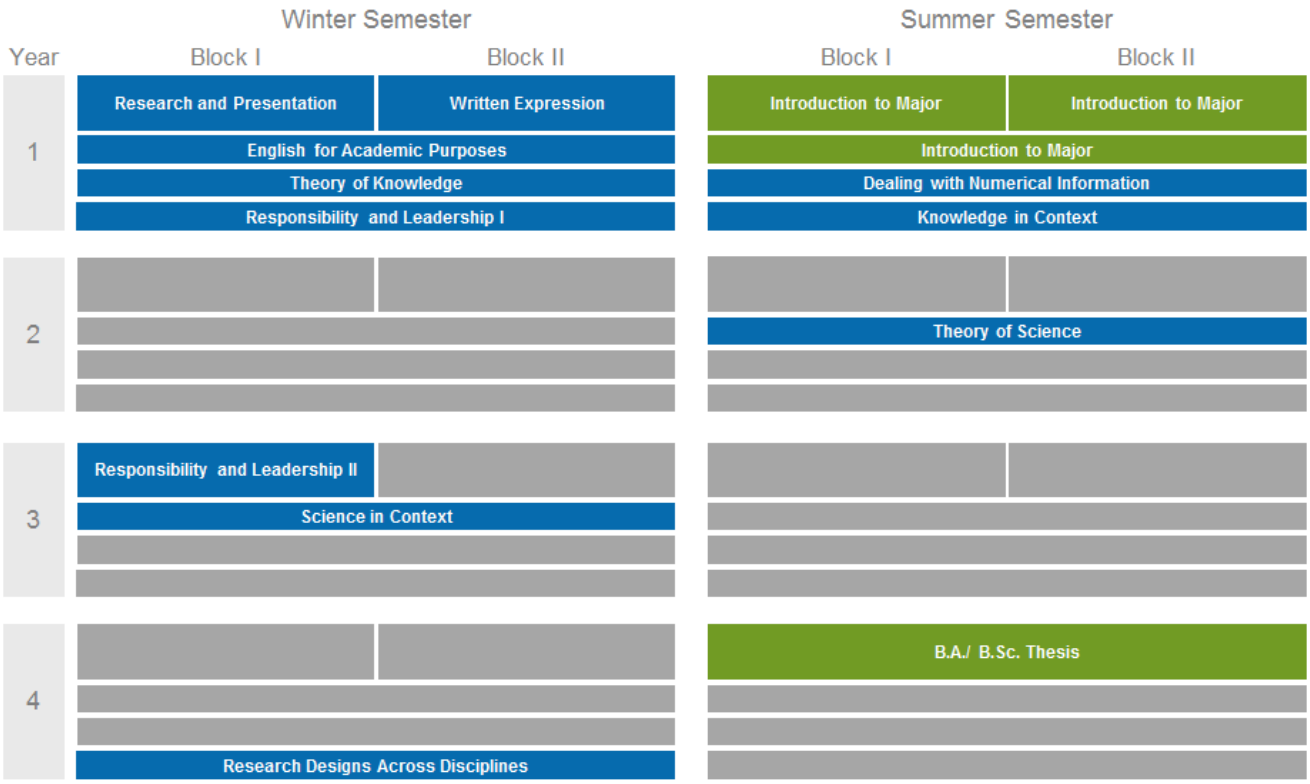

The **Core** is a distinctive feature of the Freiburg LAS Program and is closely linked to the two UCF Chairs in Sciences and Technology Studies and Epistemology and Theory of Science. Comprised of 66 credit points, the Core forms the coherent and shared foundation of this interdisciplinary and flexible Program. It is compulsory and encompasses basic and advanced academic skills, Reflections on Knowledge and Science, and a curriculum on Responsibility and Leadership.

Students specialize in one of four **Majors** (see below). These Majors are linked to the research and teaching profile of the University of Freiburg without emulating any of its existing study programs. They range from the humanities to the social and natural sciences and are in themselves interdisciplinary. Students are required to take introductory courses in three of the Majors before they choose one. In the chosen Major, students earn 102 credit points. Although basic Major Modules are compulsory, students can choose between different courses when it comes to the advanced Modules. Students write their Bachelor thesis (12 credit points) in the chosen Major. Depending on their Major, students will graduate with a Bachelor of Arts or a Bachelor of Sciences.

The **Electives** part of the program (72 credit points) allows students to supplement their Major and to shape their specific academic profile. Depending on their intellectual interests and future plans, students use the Electives to deepen, focus, or broaden their studies. Students take courses from other LAS Majors as Electives and choose from the wide range of courses at the University of Freiburg. The Electives requirement is also designed to accommodate study abroad, language requirements, internships, and special projects.

| Major | General Focus | Disciplinary Foci | Themes in Advanced Modules |
|---|---|---|---|
| Earth and Environmental Sciences | Integrative view of past, present, and future developments of planet Earth and interactions between human activities and the environment | Earth Sciences, Environmental Sciences, Technology Studies, Ecology, Biology | Environmental governance, sustainable development (e.g. resource and energy use) |
| Life Sciences | The human body and the human mind | Physiology, Cell Biology, Biochemistry, Biopsychology | Behavioral neuroscience, medical biology |
| Governance | 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 |
| Culture and History | 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 |

## Study Plan Liberal Arts and Sciences Bachelor Program




Responsibility and Leadership II and Research Design Across Disciplines are offered in different forms throughout the year. For students abroad in year 3, we recommend to take Science in Context and Responsibility & Leadership II in year 4.

# 1 Core Modules



| **1.1 English for Academic Purposes** | | | **00LE62MO-LAS15-2150** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year of Studies | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |
| Module content & objectives | English for Academic Purposes (EAP) is designed to introduce students to the essentials of English academic writing culture. The objective of this module is to support students in a regular practice of critically reading and writing academic texts.<br>In the first part, we will identify academic discourse and the features of academic writing in terms of communities of practice. Students will learn how to recognize diverse academic genres, 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 the essay genre. Students will extend their recognition of paragraph structure by examining the specific anatomy of the persuasive essay. Following critical analysis and discussion of a set of shared academic texts, each student will craft an essay aimed at compellingly convincing the reader of the merits of its claims. | | |
| Learning Goals | Upon successful completion of this course, students should be able to:<br>(1) write persuasively and critically<br>(2) identify, analyse, and evaluate academic texts<br>(3) use outside sources appropriately with academic integrity<br>(4) successfully proofread and edit their seminar papers | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS)<br>Graded assessment (3 ECTS): written<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.2 Research and Presentation** | | | **00LE62MO-LAS15-2120** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year of Studies | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, 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…<br>(1) identify and classify scholarly and non-scholarly texts.<br>(2) find literature on a particular topic in libraries, search engines and literature data bases.<br>(3) understand and summarize simple scholarly texts.<br>(4) present a topic to peers within a given time frame. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in all course activities.<br>Graded assessment (3 ECTS): an oral presentation of a topic and an annotated bibliography.<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.3 Written Expression** | | | **00LE62MO-LAS15-2130** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Seminar | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |
| Module content & objectives | The Lecture introduces students to the challenges of sharing knowledge through written expression. One overarching goal 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>Particular emphasis is put on different genres of academic writing and their prevalence in different disciplines.<br>Over the Block, 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) think of writing as a process with multiple stages, including preparation, composition, and revision.<br>(2) employ basic writing skills such as outlining, free-writing, and self-directed revision.<br>(3) organize and effectively recapitulate information to others in writing.<br>(4) give appropriate attention to context—including audience, situation, genre, and discipline—in writing.<br>(5) recognize the importance of clear and convincing writing to scholarship and other forms of sharing knowledge. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in all course activities.<br>Graded assessment (3 ECTS): two written assignments (not to exceed 5000 words total) based on independent research and developed over multiple stages.<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.4 Theory of Knowledge** | | | **00LE62MO-LAS15-2320** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Prof. Dr. Frieder Vogelmann | | |
| Prerequisites | None | | |
| Module content & objectives | This is a core module of the LAS program which teaches students key issues concerning human epistemology. It combines a systematic with a historical approach. Topics of special relevance are the nature of reality, truth, and belief. We will also discuss questions of perception and inference. There may be a strong emphasis on logic (in the wide sense of the term). | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) articulate the distinction between reality and our subjective representations thereof<br>(2) understand key concepts of epistemology, such as “belief”, “truth”, and “scepticism”<br>(3) cope with fundamental questions concerning inductive and deductive reasoning | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): regular attendance and active participation in all the course's components.<br>Graded assessment (3 ECTS): presentation; written exam. Possibly exercise sheets.<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.5 Dealing with Numerical Information** | | | **00LE62MO-LAS15-2140** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Summer Semester | Year | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, 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.<br>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 work-groups and software tutorials using the statistics package R. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) Interpret and analyse numerical and graphical information.<br>(2) Illustrate numerical data meaningfully.<br>(3) Recall key concepts of probability theory, descriptive and inference statistics.<br>(4) Apply basic descriptive and analytical statistics to different sets of data. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): attendance during workgroup and software tutorials and satisfactory participation in class activities;<br>Graded assessment (3 ECTS): formal written graded exam (90 min). Requirement to be admitted to the exam: 50 % of all possible points awarded for correct answers in the exercises).<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.6 Knowledge in Context** | | | **00LE62MO-LAS15-2420** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Summer Semester | Year | 1-2 |
| Workload | 180 h (of which 40h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Prof. Dr. Veronika Lipphardt | | |
| Prerequisites | None | | |
| Module content & objectives | This is a fundamental module of the LAS program which teaches students how the construction, circulation, usage and negotiation of knowledge can be described and analyzed as sociocultural and historical phenomena. Of special relevance are the disciplines of History of Knowledge and Sociology of Knowledge. The emphasis may vary, but there will always be a strong empirical element to the module. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe and explain fundamental elements of a sociocultural perspective on knowledge.<br>(2) apply the general outlook of at least one of the key disciplines of the module to at least one empirical setting (e.g. the analysis of struggles between competing knowledge systems, history of professionalization, sociology of expert knowledge in everyday life, history of regulation and standardization).<br>(3) analyse, compare and contrast some key works in the field.<br>(4) contrast the perspective of this module with the perspective of the corresponding module Theory of Knowledge.<br>(5) formulate tentative research questions that could be addressed to knowledge phenomena in the contemporary world. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): oral or written. Specific details will be announced at the beginning of the respective course. | | |

| **1.7 Theory of Science** | | | **00LE62MO-LAS15-2330** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Summer Semester | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Prof. Dr. Frieder Vogelmann | | |
| Prerequisites | None | | |
| Module content & objectives | This is a core module of the LAS program which teaches students key issues concerning the methodological foundations of science and academic scholarship. Disciplines of special relevance are the History and the Philosophy of Science; there will also be a strong focus on the Logic of Science. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe and explain the fundamental concepts of science, e.g., 'theory', 'observation', 'experiment'.<br>(2) discuss different conceptions of scientific explanation and confirmation.<br>(3) reflect upon the (alleged) rationality and objectivity of science.<br>(4) analyse the difference between a normative and a socio-historical view on science.<br>(5) contrast the perspective of this module with the perspective of the corresponding module Knowledge in Context. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): regular attendance and active participation in all the course's components.<br>Graded assessment (3 ECTS): presentation; written exam<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.8 Science in Context** | | | **00LE62MO-LAS15-2430** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year | 3-4 |
| Workload | 180 h (of which 40h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Prof. Dr. Veronika Lipphardt | | |
| Prerequisites | None | | |
| Module content & objectives | This is a fundamental module of the LAS program which teaches students how science and scholarship can be described and analyzed as sociocultural and historical phenomena. Of special relevance are the disciplines of Science and Technology Studies, Anthropology of Science, History of Science and Sociology of Science. The emphasis may vary, but there will always be a strong empirical element to the module. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe and explain fundamental elements of a sociocultural perspective on science and scholarship.<br>(2) apply the general outlook of at least one of the key disciplines of the module to at least one empirical setting (e.g. history of the experiment, sociology of laboratory work, analysis of scientific controversies)<br>(3) analyse, compare and contrast some key works in the field.<br>(4) contrast the perspective of this module with the perspective of the corresponding module Theory of Science<br>(5) formulate tentative research questions that could be addressed to scientific and scholarly phenomena in the contemporary world. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): oral or written. Specific details will be announced at the beginning of the respective course. | | |

| **1.9 Research Design Across Disciplines** | | | **00LE62MO-LAS15-2110** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year | 4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | None | | |
| Module content & objectives | This course is aimed at senior students who should refine their academic skills and intensify contact with academic research, before embarking on longer academic projects such as the writing of the bachelor thesis.<br>Students achieve the understanding of the expectations to academic research and communication in the different disciplines taught within the Liberal Arts and Sciences study program; of the roles and relationships in independent research and writing projects. The module aims at intensifying and diversifying students' direct contact with current academic research.<br>Students learn about the methods and challenges of academic work, get hands-on experience of developing and refining their research questions and research plan, achieve an advanced insight into the work with academic sources according to the accepted academic standards and embark upon a small research and writing project. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) understand standards of academic research and communication in different disciplines;<br>(2) have refreshed and deepened the fundamental academic skills (working with sources, taking an informed position in an academic debate, planning the argument, writing according to academic standards);<br>(3) more efficiently plan and manage and independent research and writing project. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): regular of attendance of and active participation in all the course's components.<br>Graded assessment (3 ECTS): written graded assignments<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.10 Responsibility and Leadership I** | | | **00LE62MO-LAS15-2550** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Every Winter Semester | Year | 1-2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | 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 Psychology, Philosophy, Economics, Anthropology and Sociology and focusses on four themes:<br>(1) bases and dynamics of human interaction,<br>(2) equality, diversity and non-discriminatory practice,<br>(3) ethics, decision-making and responsible action, and<br>(4) leadership and managerial challenges.<br>The module provides academic insights, tools for reflection as well as practical skills for dealing with challenges of leading responsible actions. The courses are taught in a combination of workgroups, seminar sessions and/or lectures and may also include simulations and practical exercises. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) outline and keep apart insights from different disciplines that deal with the dynamics of human interaction..<br>(2) describe and explain how diversity and (in-)equality affect individuals and collectives.<br>(3) recognize and approach ethical problems in decision making from theoretical and practical points of view.<br>(4) understand conceptual bases and practical challenges of leading collaborative actions. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): regular attendance, preparation of texts and active participation in interactive teaching formats (e.g. cases, simulation games etc.)<br>Graded assessment (3 ECTS): graded written work.<br>Specific details will be announced at the beginning of the respective course. | | |

| **1.11 Responsibility and Leadership II** | | | **00LE62MO-LAS15-2560** |
|---|---|---|---|
| Study Area | Core | | |
| Type of Module | Compulsory | | |
| Frequency Taught | Yearly | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Thorsten Leiendecker, M.A. | | |
| Prerequisites | Responsibility and Leadership I | | |
| Module content & objectives | This module builds on the introductions given in “Responsibility and Leadership I” and deepens a selection of its main areas. The approach bases on 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 four main areas of the previous module<br>(1) bases and dynamics of human interaction,<br>(2) equality, diversity and non-discriminatory practice,<br>(3) ethics, decision-making and responsible action, and<br>(4) leadership and managerial challenges. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe and keep apart approaches and contributions from different academic disciplines for the subject area responsibility and leadership<br>(2) reflect on social and individual aspects of responsibility and leadership<br>(3) apply and adapt practical examples for problems that concern responsible and leading actions. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): oral or written.<br>Specific details will be announced at the beginning of the respective course. | | |

# 2 Modules of the Major Earth and Environmental Sciences



| **2.1 Introduction to Earth and Environmental Sciences** | | | **00LE62MO-LAS15-6100** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory for Earth and Environmental Sciences Major<br>Compulsory Elective for other Majors | | |
| Frequency Taught | Every Summer Semester | Year | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture w/ Practical Classes, Workgroup | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | none | | |
| Module content & objectives | This module has a strong focus on the human being and its interactions with the environment. Thereto, students acquire basic knowledge of the interacting components of our Earth system to gain a holistic view of our planet Earth. This includes our physical environment (e.g. climate, water, soil) and our living environment (e.g. human being, animals, plants) as well as the interaction between the two.<br>In addition, students engage with scientific work related to contemporary environmental issues (e.g. sustainability of resources, environmental life cycles assessment of products such as crops for food or biofuel). Furthermore, students get familiarized with basic research methods used in the field of Earth and Environmental Sciences.<br>Students learn about components of the Earth system during lectures seminars and practice research methods during practical classes. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) understand basic structures and functions of different components of the Earth system and their interaction with each other.<br>(2) connect links between these components and/or past and contemporary environmental challenges.<br>(3) acquire a basic understanding of human influence on the environment and vice versa<br>(4) conduct basic scientific work/experiments.<br>(5) present a topic according to basic scientific standards | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): Satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): The final examination for this module consists of a written exam and/or a written paper.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.2 Mathematics and Physics for the Liberal Arts and Sciences** | | | **00LE62MO-LAS15-6110** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory for Earth and Environmental Sciences Major<br>Compulsory for Life Sciences Major<br>Elective for Governance Major and Culture and History Major | | |
| Frequency Taught | Yearly | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Recommended: Introduction to Earth and Environmental Sciences | | |
| Module content & objectives | This module introduces basic concepts of mathematics and physics, including, but not limited to, analysis, algebra and Newtonian physics. It covers both, theoretical concepts of mathematics and physics as well as their application in the context of the sciences in general. In this respect the module covers mathematics and physics as they are needed for the Majors Earth and Environmental Sciences and Life Sciences.<br>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 and physical problems (e.g. the interplay of forces or dynamics in gravitational field). | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) master basic concepts of analysis and linear algebra, and Newtonian physics<br>(2) identify appropriate physical and mathematical approaches to treat given problems, and solve the them accordingly in a quantitative way.<br>(3) recognise abstract concepts behind a given problem to find similarities to already known situations. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): Satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): written exam and/ or an oral exam interview.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.3 Methods of Observing Nature** | | | **00LE62MO-LAS15-6120** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly - every other year | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | 1–2 weeks full-time or 6-8 one day excursions | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor)<br>Recommended: Earth Sciences, Ecology | | |
| Module content & objectives | In this module, students explore natural phenomena through direct field and/or laboratory experience. This module has a strong focus on practical work. Students gain hands-on experience with methods used to gather and analyze data of our environment especially while being in the environment. Topics can focus on the relationship between geology and vegetation and how these can vary. Thereby, students connect their observations with theoretical knowledge of Earth sciences, chemistry and/or ecology. This includes also the discussion of interactions between observed natural processes and humans such as farming. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe and report observations of natural processes according to scientific standards.<br>(2) link their theoretical knowledge to observations of natural processes or problems in the field or laboratory.<br>(3) explain links between particular natural processes and human actions. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): an oral presentation on a given topic and/or a written paper<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.4 Chemistry** | | | **00LE62MO-LAS15-6130** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Tutorial | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor) | | |
| Module content & objectives | In this module students are introduced to the science 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 their biogeochemical cycles, and they will take a closer look at the chemistry of several important biological processes.<br>These topics are introduced during the lectures. In the tutorials selected topics will be presented by the students and discussed in depth. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe the basic electronic and structural features of molecules.<br>(2) set up and complete chemical equations.<br>(3) understand elementary thermodynamic (heat) and kinetic (velocity) aspects of chemical reactions.<br>(4) apply the principles of structure and reactivity to essential life processes in the presence and absence of dioxygen.<br>(5) present/discuss a selected topic and write a paper (short publication). | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class..<br>Graded assessment (3 ECTS): the final examination for this module consists of a written or oral exam and/or a written paper.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.5 Earth Sciences** | | | **00LE62MO-LAS15-6140** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Practical Classes, Excursion, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor)<br>Recommended: Chemistry | | |
| Module content & objectives | In this module, students explore fundamental principles of endogenous and exogenous geology to gain basic understanding of the form and functioning of our planet. Regarding endogenous geology, students learn about the Earth's interior structure and internal processes. These processes include the formation of rocks, in particular igneous rocks and metamorphic rocks, and deformation (plate tectonics). With respect to exogenous geology, students learn about processes and forces near the Earth's surface, such as the physical and chemical weathering of rocks, transport of materials (through wind, water and ice) and deposition of materials in different environments (glaciers, lakes, sea) as sedimentary rocks. In addition, an emphasis is placed on the link between both exogenous and endogenous principles and contemporary environmental challenges (e.g. earth quakes, reservoirs of resources). Students learn about endogenous and exogenous geology during lectures and study their appearance during practical classes and excursions. During the seminar, students link their acquired knowledge to current environmental challenges. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe and understand basic principles of endogenous geology (the Earth's interior structures and processes), exogenous geology (processes and forces near the Earth's surface) and fundamental methods to study these principles.<br>(2) apply their acquired theoretical knowledge to identify the appearance of geological processes in nature (e.g. metamorphic grade of rocks, plate boundaries, chemical and physical weathering)<br>(3) examine links between basic principles of endogenous and exogenous geology and contemporary environmental challenges (e.g. earth quakes, reservoirs of resources) | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): the final examination for this module consists of a written or oral exam and/or a written paper.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.6 Ecology** | | | **00LE62MO-LAS15-6140** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly- every other year | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Practical Classes, Excursion, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor)<br>Recommended: Chemistry | | |
| 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 communities in urban or rural environments and how individuals in these communities interact with their environment. In addition, the implication for nature conservation, resource use and the study of human impact on the environment are addressed.<br>Students acquire fundamental knowledge about ecological concepts, theories and research approaches during the lecture; they practice ecological research methods during practical classes/excursions and discuss ecological research and its implication during the seminar. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) recall basic ecological theories and concepts (ecological principles that control and regulate populations, communities and ecosystems)<br>(2) explain ecological patterns by applying these principles.<br>(3) discuss implications of these principles for nature conservation, resource use and/or the study of human impact on the environment.<br>(4) perform basic ecological research and report its outcome in formal scientific style (orally or written). | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): the final examination for this module consists of a written or oral exam and/or a written paper.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.7 Computer Science, Data Processing and Modeling in the Sciences** | | | **00LE62MO-LAS15-6160** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Practical Classes, Excursion, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Mathematics and Physics for the Liberal Arts and Sciences | | |
| Module content & objectives | The module introduces students to computational modelling in the sciences. It covers the multiple uses of scientific models as visualizations, research tools, and research objects and discusses their epistemological role for knowledge production in the sciences. Advantages and disadvantages of the use of models for research will be discussed with an emphasis on the relation between the model and the modelled.<br>The module includes a practical portion in which students acquire basic programming skills that are required to create simple computational models. Students learn how structures and processes of real-life systems (e.g. predator-prey relations, body-temperature regulation, life cycle of materials etc.) can be represented in a software environment and how the resulting models can be used to simulate processes and make predictions. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) know of different types of models that are used in the sciences<br>(1) are able to explain the epistemological status of scientific models<br>(2) are able to create simple computational models | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): written exam or project<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.8 Global Cycles of Matter and Materials** | | | **00LE62MO-LAS15-6410** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory Elective for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor)<br>Recommended: Chemistry | | |
| Module content & objectives | In this module students explore the cycling of matter and materials on a global scale. This includes the life cycle of elements (e.g. carbon, nitrogen), molecules (e.g. water) or certain natural or human-made material (e.g. biomass, sand, metal, plastic, electronic devices). Course topics may focus on sustainability and the use of natural resources e.g. for energy conversion such as renewable energy systems.<br>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.<br>In addition, students examine the linkage between the cycle and humans (i.e. the influence of the cycle on humans and the influence of humans on the cycle), and discuss environmental management strategies. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe a specific cycles of matter or material in detail.<br>(2) understand and discuss specialized texts and research methods in the area covered in the module.<br>(3) apply acquired knowledge and research skills to the study of other global cycles of matter or material. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): a written paper on a given topic and/or a written or oral exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.9 Humans and the Environment** | | | **00LE62MO-LAS15-6430** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory Elective for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor) | | |
| Module content & objectives | In this module students will explore the interactions of humans with their environment in more depth. Thereto, they will consider different environmental issues and possibilities to approach these issues. This includes also the role of the environment in society, politics, law, technology and/or culture. Course contents can focus the impact humans and their behavior has on the environment and/or vice versa. This includes also how humans interpret, approach and govern environmental issues. Strategies to manage the impact humans have on the environment and/or environmental hazards have on humans can be illustrated and discussed. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe the complex interrelationships between humans and the environment<br>(2) identify, analyse and discuss approaches of humans to deal with environmental issues.<br>(3) analyse and discuss specialized texts and research methods in the area covered.<br>(4) apply acquired knowledge and research skills to other topics about environmental issues and their relationship to humans. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): a written paper on a given topic and/or a written exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.10 Evolution and Dynamics of the Planetary System** | | | **00LE62MO-LAS15-6440** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory Elective for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor)<br>Recommended: Earth Sciences, Mathematics and Physics for the Liberal Arts and Sciences | | |
| Module content & objectives | In this module students explore the evolution and dynamics of the planetary system in order to gain better understanding of the present state of the Earth. This can include course topics about the Earth in the Universe, the history of Earth in respect to the geological time scale, the global atmospheric circulation including the change of climate over geological time scales, the beginning of life on Earth and what are the fundamental requirements to make life on Earth possible. In addition, students explore and discuss research methods that are used to study the respective topic. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe the evolution and dynamics of the system covered in the course in depth.<br>(2) understand and discuss specialized texts and research methods in the area covered in the course.<br>(3) apply acquired knowledge and research skills to other topics related to the evolution and dynamics of the planetary system. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): a written paper on a given topic and/or a written or oral exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.11 Analytical Methods** | | | **00LE62MO-LAS15-6450** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory Elective for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Seminar | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor) | | |
| Module content & objectives | In this module students will acquire skills to understand and apply scientific methods in one of the disciplines of Earth and Environmental Sciences.<br>Students will gather hands on experience by conducting data analysis using a certain scientific method either in class, in a scientific laboratory or in the field. Thereby, they will get familiarized with certain techniques, lab and field protocols, handling and interpretation of data, and useful case studies.<br>Students can also develop a specific research focus by doing an internship in a recognized research facility, if they are supervised by an authorized examiner. They select and apply for an internship in agreement with the course coordinator. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) describe a scientific problem in the field of Earth and Environmental Sciences, and the suitable scientific method to approach this problem<br>(2) understand and evaluate the quality of scientific datasets<br>(3) apply a scientific method to analyse obtained or given datasets and write a scientific report | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): a scientific report on a given topic using a certain analytical method.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.12 Specialization Option: Earth and Environmental Sciences I** | | | **00LE62MO-LAS15-6610** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory Elective for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar and/or Practical Classes | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor) | | |
| 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 ecology, Earth sciences, chemistry and physics and interdisciplinary courses that are related to these fields of study such as Environmental Governance or Renewable Energy Systems.<br>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 are trained intensively in order to advance practical research skills.<br>With prior approval of the Board of Examiners, this module can be replaced by supervised independent science research (see guidelines for independent projects). | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) thoroughly understand the concepts and methods relevant to the research area covered in the module.<br>(2) apply the acquired concepts and methods to the study of other topics related to the research area covered in the module.<br>(3) evaluate research in the area covered in the module. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

| **2.13 Specialization Option: Earth and Environmental Sciences II** | | | **00LE62MO-LAS15-6620** |
|---|---|---|---|
| Study Area | Earth and Environmental Sciences | | |
| Type of Module | Compulsory Elective for Earth and Environmental Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly – every other year | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar and/or Practical Classes | Language | English |
| Module Coordinator | Dr. Sabine Sané | | |
| Prerequisites | Successful completion of the module Introduction to Earth and Environmental Sciences (or permission by the instructor) | | |
| 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 ecology, Earth sciences, chemistry and physics and interdisciplinary courses that are related to these fields of study such as Environmental Governance or Renewable Energy Systems.<br>The module puts special emphasis on research and/or research methods and covers a focused 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 are trained intensively in order to advance practical research skills.<br>With prior approval of the Board of Examiners, this module can be replaced by supervised independent science research (see guidelines for independent projects). | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) thoroughly understand the concepts and methods relevant to the research area covered in the module.<br>(2) apply the acquired concepts and methods to the study of other topics related to the research area covered in the module.<br>(3) evaluate research in the area covered in the module. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and 3 ECTS (graded assessment): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

# 3 Modules of the Major Life Sciences



| **3.1 Introduction to Life Sciences** | | | **00LE62MO-LAS15-5100** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Compulsory Elective for other Majors | | |
| Frequency Taught | Every Summer Semester | Year | 1 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | None | | |
| 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 cell level.<br>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.<br>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…<br>(1) describe relevant structures and processes of biological and cognitive systems in the human being<br>(2) have advanced knowledge in one topic of the course<br>(3) present a topic according to basic scientific standards | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): a formal written exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.2 Mathematics and Physics for the Liberal Arts and Sciences** | | | **00LE62MO-LAS15-5110** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Compulsory for Earth and Environmental Sciences Major<br>Elective for Governance Major and Culture and History Major | | |
| Frequency Taught | Yearly | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | None | | |
| Module content & objectives | This module introduces basic concepts of mathematics and physics, including, but not limited to, analysis, algebra and Newtonian physics. It covers both, theoretical concepts of mathematics and physics as well as their application in the context of the sciences in general. In this respect the module covers mathematics and physics as they are needed for the Majors Earth and Environmental Sciences and Life Sciences.<br>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 and physical problems (e.g. the interplay of forces or dynamics in gravitational field). | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) master basic concepts of analysis and linear algebra, Newtonian physics<br>(2) identify appropriate physical and mathematical approaches to treat given problems, and solve the latter accordingly in a quantitative way.<br>(3) recognise abstract concepts behind a given problem to find similarities to already known situations. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in class activities.<br>Graded assessment (3 ECTS): midterm and final exam<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.3 Biochemistry** | | | **00LE62MO-LAS15-5130** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | None | | |
| Module content & objectives | This module provides the students with the knowledge about biochemical reactions and signalling pathways relevant to understand intra- and inter-cellular processes. This may include, but is not limited to, signal transduction (cellular receptors and signalling 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.<br>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…<br>(1) know about the basic chemical pathways that run a cell;<br>(2) know about the basic molecules involved in biochemical reactions and understand what role these molecules play in different cellular functions<br>(3) are able to describe the role of intracellular reactions in relation to cellular activities and physiological processes | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): oral or written exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.4 Cell Biology** | | | **00LE62MO-LAS15-5150** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | None | | |
| 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.<br>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.<br>Additional laboratory exercises will provide the students with initial practical experiences in the lab. Using common methods (such as microscopy) students will study structural aspects of the cell. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) understand the structure and molecular function of living cells<br>(2) understand and be able to discuss specialized texts in the areas covered by the module<br>(3) be able to apply knowledge acquired to historical and current cases of legal regulation of communities, states and markets. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): oral or written exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.5 Physiology** | | | **00LE62MO-LAS15-5140** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion 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.<br>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…<br>(1) differentiate between and describe different physiological systems<br>(2) explain one physiological system in-depth<br>(3) understand how different systems interact | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): written exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.6 Laboratory Work for the Life Sciences** | | | **00LE62MO-LAS15-5120** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major | | |
| Frequency Taught | - | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Laboratory Course or Internship | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the modules Cell Biology, Biochemistry, and Physiology | | |
| 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, handling of specific instruments, machines and routines, and typical experimental setups. The course focusses on practical skills while at the same time allowing students to carry out small projects.<br>Optionally, students who wish to develop a specific research focus can cover the module by doing in an internship in a recognized research facility. In this case students select and apply for a lab in agreement with the course coordinator. Additional restrictions and guidelines apply. | | |
| Learning Goals | Upon successful completion of this module, students are able to<br>(1) behave in a laboratory space safely<br>(2) carry out basic procedures typical for the lab of their choice<br>(3) describe the working procedures carried out in the lab in the context of project they worked on | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the lab work, satisfactory completion of all required assignments by the lab supervisor.<br>Graded assessment (3 ECTS): lab report/project report.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.7 Computer Science, Data Processing and Modelling in the Sciences** | | | **00LE62MO-LAS15-5160** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Lecture, Workgroup | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Mathematics and Physics for the Liberal Arts and Sciences | | |
| Module content & objectives | The module introduces students to computational modelling in the sciences. It covers the multiple uses of scientific models as visualizations, research tools, and research objects and discusses their epistemological role for knowledge production in the sciences. Advantages and disadvantages of the use of models for research will be discussed with an emphasis on the relation between the model and the modelled.<br>The module includes a practical portion in which students acquire basic programming skills that are required to create simple computational models. Students learn how structures and processes of real-life systems from the sciences (e.g. predator-prey relations, body-temperature regulation, life cycle of materials etc.) can be represented in a software environment and how the resulting models can be used to simulate processes and make predictions. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) know of different types of models that are used in the sciences<br>(2) are able to explain the epistemological status of scientific models<br>(3) are able to create simple computational models | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities, satisfactory completion of all required assignments as announced in class.<br>Graded assessment (3 ECTS): written exam or project.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.8 Methods** | | | **00LE62MO-LAS15-5410** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory Elective for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences. Additional prerequisites may apply depending on the course chosen. | | |
| Module content & objectives | In this module students acquire deepened knowledge about the theoretical basis and the application of a method used in the Life Sciences. This may include conducting an advanced research procedure (e.g. Polymerase Chain Reaction), using complex research instruments (e.g. Electroencephalography) or advanced statistical methods for data analysis. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) explain the theoretical background of a particular research method<br>(2) apply the method successfully in a research context | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): Assessments may include but are not limited to reports, presentations or a formal written exam.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.9 Advanced Life Sciences I** | | | **00LE62MO-LAS15-5510** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory Elective for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences. Additional prerequisites may apply depending on the course chosen. | | |
| Module content & objectives | In this module, students can choose among courses offered in the fields of biological anthropology, biotechnology, cell biology, cognitive and neurosciences, electrical engineering for biological and medical purposes, genetics, immunology, and physiology.<br>Refer to the course catalogue and the instructor of the module to get the detailed information on the design of the course. | | |
| Learning Goals | Learning goals depend on the course chosen | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.10 Advanced Life Sciences II** | | | **00LE62MO-LAS15-5520** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory Elective for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module Introduction to Life Sciences. Additional prerequisites may apply depending on the course chosen. | | |
| Module content & objectives | In this module, students can choose among courses offered in the fields of biological anthropology, biotechnology, cell biology, cognitive and neurosciences, electrical engineering for biological and medical purposes, genetics, immunology, and physiology.<br>Refer to the course catalogue and the instructor of the module to get the detailed information on the design of the course. | | |
| Learning Goals | Learning goals depend on the course chosen | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.11 Advanced Life Sciences III** | | | **00LE62MO-LAS15-5530** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory Elective for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the module “Introduction to Life Sciences.” Additional prerequisites may apply depending on the course chosen. | | |
| Module content & objectives | In this module, students can choose among courses offered in the fields of biological anthropology, biotechnology, cell biology, cognitive and neurosciences, electrical engineering for biological and medical purposes, genetics, immunology, and physiology.<br>Refer to the course catalogue and the instructor of the module to get the detailed information on the design of the course. | | |
| Learning Goals | Learning goals depend on the course chosen | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.12 Specialization Option: Life Sciences I** | | | **00LE62MO-LAS15-5610** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory Elective for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the modules Cell Biology, Biochemistry, Physiology, and Laboratory Work for the Life Sciences. Additional prerequisites may apply depending on the course chosen. | | |
| Module content & objectives | In this module, students can choose among courses offered in the fields of biological anthropology, biotechnology, cell biology, cognitive and neurosciences, electrical engineering for biological and medical purposes, genetics, immunology, and physiology.<br>The module puts special emphasis on research (e.g. by including a student research project or covering original research papers) and addresses a focused topic in its full range. Theoretical and methodological aspects are discussed in-depth in order to provide students with a thorough background in the topic. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) demonstrate deep and reflected knowledge about the research topic<br>(2) describe and compare methods that are relevant in the context of the research topic<br>(3) start their own research in the field of the topic covered. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

| **3.13 Specialization Option: Life Sciences II** | | | **00LE62MO-LAS15-5620** |
|---|---|---|---|
| Study Area | Life Sciences | | |
| Type of Module | Compulsory Elective for Life Sciences Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Variable | Language | English |
| Module Coordinator | Dr. Simon J. Büchner | | |
| Prerequisites | Successful completion of the modules Cell Biology, Biochemistry, Physiology, and Laboratory Work for the Life Sciences. Additional prerequisites may apply. | | |
| Module content & objectives | In this module, students can choose among courses offered in the fields of biological anthropology, biotechnology, cell biology, cognitive and neurosciences, electrical engineering for biological and medical purposes, genetics, immunology, and physiology.<br>The module puts special emphasis on research (e.g. by including a student research project or covering original research papers) and addresses a focused topic in its full range. Theoretical and methodological aspects are discussed in-depth in order to provide students with a thorough background in the topic. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) demonstrate deep and reflected knowledge about the research topic<br>(2) describe and compare methods that are relevant in the context of the research topic<br>(3) start their own research in the field of the topic covered. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): The type of assessment and requirements depend on the course chosen.<br>Specific details will be announced at the beginning of the respective course. | | |

# 4 Modules of the Major Governance



| **4.1 Introduction to Governance** | | | **00LE62MO-LAS15-4100** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory for Governance Major<br>Compulsory Elective for other Majors | | |
| Frequency Taught | Every Summer Semester | Year | 1 |
| Workload | 180 h (of which 40 h classes and 20h project) | Credit Points | 6 ECTS |
| Course Format | Plenary sessions, workgroups, group project | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | None | | |
| Module content & objectives | This Introductory module allows students to 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:<br>- 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;<br>- 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;<br>- a group project allows for self-reliant planning, realisation 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:<br>(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;<br>(2) summarize and give examples of varying approaches to the central concepts, such as different theories of social contract or agenda-setting;<br>(3) identify and describe the specific focus of social science disciplines and give examples of interrelations between them.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(4) understand, paraphrase and produce academic texts on the topics of the module, with proper use of academic vocabulary;<br>(5) recognize, analyze and formulate definitions according to scholarly standard;<br>(6) improve capacity of analysis and interpretation of social and political reality, namely in terms of normality and deviation, and contextualization;<br>(7) build improved awareness about complexities and controversies in social and political sciences;<br>(8) improve academic communication skills, for example, through participation in a class debate and a group project;<br>(9) improve planning and time-management skills, for example, through covering extended readings in an efficient way;<br>(10) improve social skills, including teamwork, in group work and group project. | | |
| Methods of assessment & grading structure | - ungraded individual and group work, including a group project;<br>- graded written assignments (50%);<br>- written examination (50%). | | |

| **4.2 Theoretical and Philosophical Foundations of Social and Political Sciences** | | | **00LE62MO-LAS15-4110** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Every Winter Semester | Year | 2 |
| Workload | 180 h (of which 40 h of classes) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | None | | |
| 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.<br>The module relies on the use of active learning formats enabling direct engagement of students in the classroom and outside of it, namely,<br>- through small group and seminar discussions based on readings and class input;<br>- group work and,<br>- if appropriate, problem-based learning. | | |
| Learning Goals | In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:<br>(1) recognize and distinguish between different normative understandings of central political concepts, including liberty, equality, justice, and democracy;<br>(2) summarize and give examples of the different normative understandings of the role of the state;<br>(3) explain the interrelations between the different normative concepts, for example, the relationship between liberty and equality;<br>(4) compare and contrast normative theories and concepts;<br>(5) use normative theories and concepts to understand contemporary political debates and controversies.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(6) improve their analytical and writing skills through production of academic texts, which compare, contrast and apply normative frameworks and arguments;<br>(7) improve the understanding of different opinions on political and social issues;<br>(8) develop awareness about own normative views on social and political issues, in relation to academic discussions about these topics;<br>(9) strengthen planning and time-management skills through covering extended readings in an efficient way;<br>(10) improve communication skills in respectfully listening to and discussing with people who hold views different from their own;<br>(11) strengthen group work skills by, for example, setting shared goals for the group and solving problems as a group. | | |
| Methods of assessment & grading structure | - ungraded group work;<br>- ungraded written assignment(s);<br>- graded written assignment(s). | | |

| **4.3 Qualitative and Quantitative Methods** | | | **00LE62MO-LAS15-4120** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2–4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| 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:<br>(1) identify and give examples of common methodological approaches to the study of governance processes and institutions;<br>(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;<br>(3) describe and apply the steps of data gathering, organization, presentation and analysis;<br>(4) explain the role of methods in academic inquiry and the research design of academic studies.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(5) identify, summarize and differentiate between methodological approaches to data on socio-political reality in academic, as compared to non-academic contexts;<br>(6) reflect on the implications of different methods on the validity and reliability of academic studies and on their impact;<br>(7) understand and discuss benefits and limitations of using academic methods and improve self-reflexivity as a scholar of socio-political reality;<br>(8) improve reading and writing skills by focusing on clarity, precision and conciseness in the presentation and discussion of methods of socio-political inquiry. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded written assignments, including the application of academic methods. | | |

| **4.4 Law** | | | **00LE62MO-LAS15-4410** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Every Summer Semester | Year | 2-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| 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:<br>- seminar discussions based on readings, class input and other sources;<br>- individual or small group project work, including presentations;<br>- if possible, academic visits supporting the increased awareness of legal institutions and legal practice;<br>- 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:<br>(1) recognize, explain, summarize, and differentiate between main conceptual and theoretical approaches in legal studies and jurisprudence;<br>(2) identify and use the appropriate basic legal vocabulary;<br>(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;<br>(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;<br>(5) acquire skills to analyse and interpret main principles of law and jurisprudential approaches in legal orders;<br>(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);<br>(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.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(8) paraphrase, summarize, compare and produce academic texts on the topics of the module, with appropriate use of legal terminology;<br>(9) develop awareness about contemporary issues, debates, and controversies in legal studies;<br>(10) improve interdisciplinary thinking by considering legal topics across academic and professional contexts;<br>(11) improve self-reflexivity by critically considering the position as a scholar of law and the challenges of integrity. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded or ungraded presentations;<br>- graded written assignments;<br>- graded written examination. | | |

| **4.5 Economics** | | | **00LE62MO-LAS15-4430** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Every Summer Semester | Year | 2-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| 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:<br>- seminar discussions based on readings, class input and other sources;<br>- individual or small group project work, including presentations;<br>- if possible, academic visits supporting the increased (critical) awareness of international, regional or national economic or trade institutions and practices;<br>- 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:<br>(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;<br>(2) explain, distinguish and appropriately use central concepts of micro- and macroeconomics;<br>(3) identify and summarize the argument of specialized texts on regional and global trends and historical and contemporary cases of market processes;<br>(4) improve capacity of analysis and interpretation of social, economic and political reality and trends in the field of economics;<br>(5) understand the disciplinary focus of economics and the value added of using it to study social reality, among social science and other disciplines.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(6) 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;<br>(7) improve awareness about contemporary economic and socio-political debates and controversies, including critical perspectives;<br>(8) improve critical self-awareness about their position as a scholar of economics. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded or ungraded presentations;<br>- graded written examination. | | |

| **4.6 Political Science** | | | **00LE62MO-LAS15-4450** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Every Winter Semester | Year | 2-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Module content & objectives | This foundational module allows students to acquire disciplinary knowledge in political science, 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:<br>- interactive input from lecturer (summary of the most important points in the readings, additional knowledge about the topics covered in the readings);<br>- individual or group exercises (and, if applicable, laboratory work) focused on the application of theory and methodology;<br>- 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:<br>(1) summarize, differentiate between and provide examples of the three areas of political science inquiry – polity, politics and policy;<br>(2) explain relations and connections between polity, politics and policy;<br>(3) compare and contrast between the conceptual and theoretical approaches in the study of political reality;<br>(4) choose, explain and appropriately use central concepts and theories of political science to understand contemporary political reality and controversies;<br>(5) recognize and provide examples of the common methodological approaches in the field of political science;<br>(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.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(7) develop analytical skills in the application of basic methodology, for example, case studies or descriptive statistics;<br>(9) develop understanding of the disciplinary borders between political science and closely related fields of study, such as sociology and economics;<br>(7) develop self-awareness regarding own academic writing habits in relation to the different stages of writing (outlining, drafting, editing);<br>(8) develop skills in both receiving feedback for written work and in using feedback to further improve on the writing skills. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded written assignments;<br>- written examination. | | |

| **4.7 Global Governance** | | | **00LE62MO-LAS15-4460** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| 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:<br>- seminar discussions based on readings, class input and other sources;<br>- individual or small group project work, including presentations;<br>- if possible, academic visits supporting the increased awareness of institutions and practices of international governance as well as of critical self-reflexivity;<br>- 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:<br>(1) summarize, differentiate between, and provide examples of theoretical approaches to the study of international governance;<br>(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;<br>(3) reflect on the use of conceptual frameworks in international governance across academic and policy contexts;<br>(4) improve capacity of analysis and interpretation of social and political reality in terms of the interaction between the national, regional, and global levels of governance;<br>(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.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(6) paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;<br>(7) improve awareness about contemporary debates and controversies in the area of international governance, including critical perspectives, and begin forming independent opinion on international politics;<br>(8) improve self-reflexivity about their position as a scholar of international governance. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded presentations;<br>- graded written assignments. | | |

| **4.8 Regional Governance** | | | **00LE62MO-LAS15-4470** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| Module content & objectives | This foundational module focuses on regional governance 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:<br>- seminar discussions based on readings, class input and other sources;<br>- individual or small group project work, including presentations;<br>- if possible, academic visits supporting the increased awareness of institutions and practices of international governance as well as of critical self-reflexivity;<br>- if applicable, course-specific learning formats such as simulations. | | |
| Learning Goals | In terms of disciplinary knowledge, upon successful completion of the module, the students should be able to:<br>(1) summarize, differentiate between, and provide examples of conceptual and theoretical approaches to the study of regional governance;<br>(2) explain, choose and appropriately use central concepts and ways of studying institutions and processes of regional governance, in an application to historical or current cases;<br>(3) reflect on the use of conceptual frameworks in regional governance across academic and policy contexts.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(4) paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;<br>(5) 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;<br>(6) improve awareness about contemporary debates and controversies in the area of regional governance, including critical perspectives;<br>(7) improve self-reflexivity about their position as a scholar of regional governance. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded or ungraded presentations;<br>- graded written assignments. | | |

| **4.9 Advanced Governance I** | | | **00LE62MO-LAS15-4510** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar or Lecture | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| 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. 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 should be able to:<br>(1) summarize, differentiate between, and provide examples of theoretical and methodological approaches to the study of social, political or economic reality;<br>(2) explain, choose and appropriately use central concepts and ways of studying governance institutions and processes, in an application to historical or current cases;<br>(3) reflect on the use of conceptual and methodological frameworks in governance across academic and policy contexts.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(4) paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;<br>(5) improve capacity of analysis and interpretation of social and political reality;<br>(6) improve awareness about contemporary debates and controversies in the area covered in the module in academia and beyond;<br>(7) improve self-reflexivity about their position as a scholar of governance. | | |
| Methods of assessment & grading structure | - ungraded and graded individual and group work;<br>- graded written assignments. | | |

| **4.10 Advanced Governance II** | | | **00LE62MO-LAS15-4520** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar or Lecture | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance | | |
| 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. 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 should be able to:<br>(1) summarize, differentiate between, and provide examples of theoretical and methodological approaches to the study of social, political or economic reality;<br>(2) explain, choose and appropriately use central concepts and ways of studying governance institutions and processes, in an application to historical or current cases;<br>(3) reflect on the use of conceptual and methodological frameworks in governance across academic and policy contexts.<br><br>In terms of academic skills and social and personal competences, upon successful completion of the module, the students should be able to:<br>(4) paraphrase, compare and produce academic texts on the topics of the module, with proper use of academic vocabulary;<br>(5) improve capacity of analysis and interpretation of social and political reality;<br>(6) improve awareness about contemporary debates and controversies in the area covered in the module in academia and beyond;<br>(7) improve self-reflexivity about their position as a scholar of governance. | | |
| Methods of assessment & grading structure | - ungraded and graded individual and group work;<br>- graded written assignments. | | |

| **4.11 Advanced Governance III** | | | **00LE62MO-LAS15-4540** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Senior seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the module Introduction to Governance. This is a senior module. | | |
| 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:<br>- individual or group exercises focused on the application of theoretical and methodological frameworks in research;<br>- group discussion based on readings, individual research and class input;<br>- independent research project;<br>- 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;<br>- 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:<br>(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;<br>(2) list, describe, compare, justify and evaluate methodological approaches to the study of a specific social, legal or political issue;<br>(3) choose and apply a theoretical and methodological approach in an individual or group course-specific project;<br>(4) produce a research paper corresponding to the disciplinary standards, including the explanation, justification and evaluation of the theoretical and methodological approach.<br><br>In terms of skills and competences, upon successful completion of the module, the students should be able to:<br>(5) 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>(6) increase the ability to integrate knowledge from different contexts;<br>(7) plan, manage and complete (or plan in detail) an independent research project of a limited scale;<br>(8) develop academic integrity and apply ethical guidelines in carrying out or planning the independent project. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded written assignments;<br>- a research paper (for at least 50% of the graded assessment). | | |

| **4.12 Specialization Option: Governance I** | | | **00LE62MO-LAS15-4630** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Senior seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the modules Introduction to Governance, Theoretical and Philosophical Foundations of Social and Political Sciences, Qualitative and Quantitative Methods. | | |
| 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 greater flexibility than other senior modules. To achieve the learning objectives, the module may use a combination of learning formats:<br>- individual or group exercises focused on in-depth study of a social political or legal issue;<br>- group discussion based on readings, individual research and class input;<br>- independent research;<br>- if possible, academic visits or expert talks supporting the increased awareness of different contexts and practical applications of scholarly knowledge in the area;<br>- 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:<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) recognise, 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 should be able to:<br>(4) 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>(5) increase the ability to integrate knowledge from different contexts;<br>(6) improve the ability to conduct independent research;<br>(7) strengthen self-reflexivity and, when relevant, teamwork. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded or ungraded presentations;<br>- graded written assignments. | | |

| **4.13 Specialization Option: Governance II** | | | **00LE62MO-LAS15-4640** |
|---|---|---|---|
| Study Area | Governance | | |
| Type of Module | Compulsory Elective for Governance Major<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 3-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Senior seminar | Language | English |
| Module Coordinator | Dr. Mila Mikalay | | |
| Prerequisites | Successful completion of the modules Introduction to Governance, Theoretical and Philosophical Foundations of Social and Political Sciences, Qualitative and Quantitative Methods. | | |
| 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 greater flexibility than other senior modules. To achieve the learning objectives, the module may use a combination of learning formats:<br>- individual or group exercises focused on in-depth study of a social political or legal issue;<br>- group discussion based on readings, individual research and class input;<br>- independent research;<br>- if possible, academic visits or expert talks supporting the increased awareness of different contexts and practical applications of scholarly knowledge in the area;<br>- 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:<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) recognise, 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 should be able to:<br>(4) 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>(5) increase the ability to integrate knowledge from different contexts;<br>(6) improve the ability to conduct independent research;<br>(7) strengthen self-reflexivity and, when relevant, teamwork. | | |
| Methods of assessment & grading structure | - ungraded individual and group work;<br>- graded or ungraded presentations;<br>- graded written assignments. | | |

# 5 Modules of the Major Culture and History



| **5.1 Introduction to Culture and History** | | | **00LE62MO-LAS15-3100** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory for Culture and History Majors<br>Compulsory Elective for other Majors | | |
| Frequency Taught | Every Summer Semester | Year | 1-2 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | None | | |
| Module content & objectives | In this module, students encounter and work with typical objects of study and research in the humanities: literary and philosophical texts, works of art, and customs or rituals. At the same time, they practice the scholarly methods of critical inquiry and interpretation that can be applied to these objects and practices.<br>In the Seminar, students read and discuss important works, many of them classics in their field, which introduce the problems and promise of specific scholarly approaches to humanistic research and study.<br>In the Workgroup, students undertake the techniques of humanistic interpretation with specific cultural objects or practices.<br>Although the objects and practices are not all necessarily derived from the same temporal or geographic context, students also learn to think about how cultural work emerges out of historical and other contexts. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) explain a range of interpretive approaches that can be taken to any given cultural object.<br>(2) intelligently interpret a cultural object or practice at a basic level.<br>(3) critically evaluate the strength of competing interpretations of a cultural object based on empirical evidence drawn directly from that object. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): a written examination of 1.5 hours AND/OR analytical/interpretive essay(s) of no more than 2500 words total.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.2 Culture as a Topic of Academic Inquiry** | | | **00LE62MO-LAS15-3110** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2–3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | This module provides significant theoretical and/or methodological insight into the scholarly study of culture. "Culture" is explored as an analytical category and a theoretical orientation used by scholars to understand certain parts of the human experience: everyday life, custom and habit, identity and difference among human groups, hegemony and resistance beyond formal politics, and so on. Different understandings of culture demand different objects and means of study, so the module will also investigate the methods appropriate to the study of culture.<br>In the Workgroup, the module grounds the approach to theoretical and methodological issues in a specific case or cases. Hence, some courses will have geographic, period, or thematic content.<br>In the Seminar, the theoretical and methodological focus may include: the problematic distinction between "high" and "low" culture, the culture disciplines (anthropology, ethnology, folklore, cultural studies, etc.), the high culture disciplines (art history, literary studies, etc.), (cultural) history, critical theory, among others.<br>The module is offered in varying forms. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) analytically distinguish between different scholarly approaches to the study of culture.<br>(2) correctly use some of the specific vocabulary and conceptual tools shared by scholars of culture.<br>(3) connect material from other modules into a more comprehensive understanding of the study of culture. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): analytical/interpretive essay(s) of no more than 5,000 words total AND/OR a written examination of no more than 90 minutes. Specific details will be announced at the beginning of the respective course. | | |

| **5.3 History as a Topic of Academic Inquiry** | | | **00LE62MO-LAS15-3120** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | Yearly | Year | 2–3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | This module provides significant theoretical and/or methodological insight into the scholarly and scientific study of history. "History" is explored as an object of study (the past), as an academic discipline (History or "historiology") and as a genre of writing (historiography).<br>In the Workgroup, the module grounds the approach to theoretical and methodological issues in a specific case or cases. Hence, some courses will have geographic, period, or thematic content.<br>In the Seminar, the theoretical focus may include: positivism, empiricism, objectivity in history, the linguistic/experiential/affective turn, the history of History, challenges of historical representation, the relationships between academic/public/amateur historical work, or the range of ways in which historicism informs other disciplines, among others.<br>Specific versions of this module may include a methodological focus on: source criticism, problems of representation, archival research methods, crowd-sourcing in the collection historical sources, among others.<br>The module is offered in varying forms. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) analytically distinguish between different scholarly approaches to the study of the past.<br>(2) correctly use some of the specific vocabulary and conceptual tools shared by historians and other scholars who study the past.<br>(3) connect material from other modules into a more comprehensive understanding of the study of the past. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): analytical/interpretive essay(s) of no more than 5,000 words total AND/OR a written examination of no more than 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.4 Culture and History up to the Early Modern Period** | | | **00LE62MO-LAS15-3410** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 1–3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module students encounter the cultural and historical study of a pre-modern geographical and temporal context (up to around 1800, depending on the specific topic). In doing so, they learn how to work with the typical source materials for the study of pre-modern societies and cultures.<br>The Workgroup substantively develops students' knowledge about a specific pre-modern society and culture. Emphasis may be put on cultivating general historical context, exploration of a theme or problem, or working with a specific body of source materials.<br>The Seminar develops students' theoretical and methodological knowledge and abilities in ways suited to the study of pre-modern societies and cultures. Methodological and theoretical points of focus may include archaeology, hermeneutics, literary theory, reception analysis, the analysis of visual culture, or historical methods, among others.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) demonstrate mastery of the specific body of knowledge about a pre-modern society or culture covered in the Workgroup.<br>(2) apply their methodological and theoretical learning from the Seminar to the specific topical material studied in the Workgroup.<br>(3) relate their learning about pre-modern societies to contemporary problems and issues. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically analytical/interpretive essay(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.5 Culture and History Since the Early Modern Period** | | | **00LE62MO-LAS15-3420** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 1-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module students encounter the cultural and historical study of a modern geographical and temporal context (since around 1800, depending on the specific topic). In doing so, they learn how to work with the typical source materials for the study of modern societies and cultures.<br>The Workgroup substantively develops students' knowledge about a specific topic chosen by the instructor. Emphasis may be put on cultivating general historical context, exploration of a theme or problem, or working with a specific body of source materials.<br>The Seminar develops students' theoretical and methodological knowledge and abilities in ways suited to the study of modern societies and cultures. Methodological and theoretical points of focus may include oral history and memory studies, (historical) sociology and anthropology, modern social theory, literary studies, art history, or historical methods, among others.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to …<br>(1) demonstrate mastery of the specific body of knowledge about a modern society or culture covered in the Workgroup.<br>(2) apply their methodological and theoretical learning from the Seminar to the specific topical material studied in the Workgroup.<br>(3) relate their learning about modern societies to contemporary problems and issues. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically analytical/interpretive essay(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.6 Philosophy** | | | **00LE62MO-LAS15-3440** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 1-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module students encounter philosophy as a specific mode of humanistic intellectual engagement. In doing so, they learn how to work with philosophical texts and how to produce philosophical argumentation.<br>The Workgroup substantively develops students' knowledge about a specific topic chosen by the instructor. Emphasis may be put on a specific set of texts or philosophers, or exploration of a theme or problem from a philosophical perspective.<br>The Seminar develops students' theoretical and methodological knowledge and abilities in ways suited to philosophical thought. Methodological and theoretical points of focus may include history of philosophy or systematic philosophy, among others.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant Block. | | |
| Learning Goals | Upon successful completion of this module, students are able to …<br>(1) demonstrate mastery of the specific body of knowledge about philosophy covered in the Workgroup.<br>(2) apply their methodological and theoretical learning from the Seminar to the specific topical material studied in the Workgroup.<br>(3) relate their learning about philosophy to research and argumentation in other humanities fields. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically analytical/interpretive essay(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.7 Sociocultural Anthropology, Ethnography, or Area Studies** | | | **00LE62MO-LAS15-3430** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 1-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module students encounter some geographic or social space of human cultural activity. They develop their capacity to learn about, research, and understand human cultures by reflecting on the theories and practicing the methods of sociocultural anthropology and related disciplines. The emphasis in this module is on synchronic rather than the diachronic study of culture, although some versions may include a historical element.<br>The Workgroup substantively develops students' knowledge about a specific cultural realm (a region, a culture group), a cultural theme/problem (violence, leisure, etc.), or both.<br>The Seminar substantively develops students' theoretical and methodological knowledge and abilities in ways suited to the synchronic study of human cultures. Methodological and theoretical points of focus may include ethnography, ethnology, anthropology, social and cultural theory, media studies, gender studies, or postcolonial studies, among others.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to<br>(1) demonstrate mastery of the specific body of knowledge about a culture covered in the Workgroup.<br>(2) apply their methodological and theoretical learning from the Seminar to the specific topical material studied in the Workgroup.<br>(3) relate their learning about a specific space of human cultural activity to the study of other kinds of objects of research in the humanities. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically written assignment(s) (essay, ethnographic report, or similar) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.8 Art, Literature, Aesthetics or Music** | | | **00LE62MO-LAS15-3450** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 1-3 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module, students learn about specific works of art (visual, literary, musical, performance, or other) as well as the theories and methodologies used in the critical analysis, interpretation, and evaluation of such works. The socio-cultural and historical horizon of artistic production and reception may also be considered.<br>The Workgroup substantively develops students' knowledge about specific works of art, traditions of artistic production, or contexts of artistic reception.<br>The Seminar substantively develops students' theoretical and methodological knowledge and abilities in ways suited to the study of art and aesthetics. Points of focus may include aesthetic theory, reception theory, cultural studies, formal analysis, or art history, among others.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to<br>(1) demonstrate mastery of the specific body of knowledge about art and aesthetics covered in the Workgroup.<br>(2) apply their methodological and theoretical learning from the Seminar to the specific topical material studied in the workgroup.<br>(3) relate their learning about art and aesthetics to the study of other kinds of objects of research in the humanities. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically analytical/interpretive essay(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.9 Advanced Culture and History I** | | | **00LE62MO-LAS15-3510** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2–4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module, students expand their knowledge and training in the humanities by further study in an area they have already encountered.<br>Students can choose among courses offered as one of the other Compulsory Electives within the Culture and History Major, and sometimes courses will be offered exclusively as Advanced Culture and History I/II/III.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Dependent upon the specific course. Consult the course catalogue and instructor in the relevant semester. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically written assignment(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.10 Advanced Culture and History II** | | | **00LE62MO-LAS15-3520** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module, students expand their knowledge and training in the humanities by further study in an area they have already encountered.<br>Students can choose among courses offered as one of the other Compulsory Electives within the Culture and History Major, and sometimes courses will be offered exclusively as Advanced Culture and History I/II/III.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant Semester. | | |
| Learning Goals | Dependent upon the specific course. Consult the course catalogue and instructor in the relevant Semester. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically written assignment(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.11 Advanced Culture and History III** | | | **00LE62MO-LAS15-3530** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | -- | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| Module content & objectives | In this module, students expand their knowledge and training in the humanities by further study in an area they have already encountered.<br>Students can choose among courses offered as one of the other Compulsory Electives within the Culture and History Major, and sometimes courses will be offered exclusively as Advanced Culture and History I/II/III.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant Semester. | | |
| Learning Goals | Dependent upon the specific course. Consult the course catalogue and instructor in the relevant Semester. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS): satisfactory participation in the module and its associated activities (including adequate attendance according to the LAS policy), satisfactory completion of all required small assignments.<br>Graded assessment (3 ECTS): typically written assignment(s) not to exceed 5,000 words total AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.12 Specialization Option: Culture and History I** | | | **00LE62MO-LAS15-3630** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| 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 field of scholarly research or independent research undertaken at the bachelor level.<br>The module can be fulfilled in three ways:<br>(1) Some courses offered as one of the other Compulsory Electives within the Culture and History Major will simultaneously be offered at a more advanced level and with a research-orientation.<br>(2) Sometimes advanced courses will be offered specifically for this module.<br>(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.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) demonstrate critical engagement with a specific body of humanistic scholarship.<br>(2) evaluate the possibilities and limits of specific humanistic theories and methods in approaching specific cultural objects, cultural spheres, and/or a specific past.<br>(3) formulate a viable research agenda within the humanities. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): A written assignment not to exceed 10,000 words AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

| **5.13 Specialization Option: Culture and History II** | | | **00LE62MO-LAS15-3640** |
|---|---|---|---|
| Study Area | Major | | |
| Type of Module | Compulsory Elective for Culture and History Majors<br>Elective for other Majors | | |
| Frequency Taught | At least once per year | Year | 2-4 |
| Workload | 180 h (of which 40 h attendance) | Credit Points | 6 ECTS |
| Course Format | Seminar, Workgroup | Language | English |
| Module Coordinator | Dr. Ryan Plumley | | |
| Prerequisites | Successful completion of the module Introduction to Culture and History (waived at instructor's discretion) | | |
| 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 field of scholarly research or independent research undertaken at the bachelor level.<br>The module can be fulfilled in three ways:<br>(1) Some courses offered as one of the other Compulsory Electives within the Culture and History Major will simultaneously be offered at a more advanced level and with a research-orientation.<br>(2) Sometimes advanced courses will be offered specifically for this module.<br>(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.<br>The module is offered in varying forms with varying topics. For specific details about the content, about the theoretical/methodological emphasis, and about the teaching/learning format consult the course catalogue and instructor in the relevant Semester. | | |
| Learning Goals | Upon successful completion of this module, students are able to…<br>(1) demonstrate critical engagement with a specific body of humanistic scholarship.<br>(2) evaluate the possibilities and limits of specific humanistic theories and methods in approaching specific cultural objects, cultural spheres, and/or a specific past.<br>(3) formulate a viable research agenda within the humanities. | | |
| Methods of assessment & grading structure | Pass/fail assessment (3 ECTS) and graded assessment (3 ECTS): A written assignment not to exceed 10,000 words AND/OR a written examination not to exceed 90 minutes.<br>Specific details will be announced at the beginning of the respective course. | | |

# 6 Electives

| **6.1 Elective** | |
|---|---|
| Study Area | Electives |
| Module content & objectives | Students must earn a total of 72 ECTS credits by taking elective courses (of these, a minimum of 24 ECTS credits must be acquired from modules requiring an exam). Some of these courses require prior approval by the Examination Board.<br>Courses/Credits that do not require prior approval by the Examination Board:<br>(1) Students can take up to eight modules of their own choice from courses offered as part of the specialization studies.<br>(2) Students can take up to two elective modules that are not necessarily part of any specialization studies.<br>Courses/Credits that require prior approval by the Examination Board:<br>(1) Students can take suitable courses that are part of other degree programs at the University of Freiburg (up to 24 ECTS credits).<br>(2) Students can enrol in language courses offered by the UCF, by the Language Teaching Centre of the University of Freiburg or by other degree programs at the University of Freiburg (up to 36 ECTS credits).<br>(3) Students can undertake an internship or a practical project (up to 18 ECTS credits).<br>(4) Students can undertake supervised independent scientific research (up to 12 ECTS).<br>(5) Students can take the module Frontiers in Research (2 ECTS, up to 6 ECTS credits in total)<br>Detailed information on requirements and application procedures is available on the Info Board on ILIAS. |
| Learning Goals | As announced for the respective course. |
| Methods of assessment & grading structure | As announced for the respective course. |

**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 **www.ucf.uni-freiburg.de**
and join us on Facebook**:** **www.facebook.com/ucf.las**

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