universität freiburg

Course Catalog

BA/BSc Program
Liberal Arts and Sciences
Summer Semester 2024

UNIVERSITY
COLLEGE
FREIBURG

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I General Information

Due to the limited places in Liberal Arts and Sciences (LAS) courses, all courses listed in the LAS Course Catalog are open to LAS students and students of the official exchange partners and partner degree programs of UCF only.
Exchange students of other programs may join the courses only if there are open places after the official LAS registration period.

1 Teaching Periods and Dates

Teaching Period	Dates
Pre Block	18 – 28 March
Block III	2 April – 29 May
Block IV	31 May – 19 July
University Semester	15 April – 19 July (semester-long courses correspond to the university semester)
Resit Period	4 – 27 October (re-sit examinations that require students' presence only)

The university is closed on public holidays! Dates for individual courses may slightly vary from these dates (see course descriptions).

2 EPICUR – The European University

Uni Freiburg and UCF are part of the **EPICUR European University Alliance**. As of winter semester 2020/21, EPICUR offers LAS-based seminars and other teaching activities across the alliance:

- EPICUR courses taught by UCF EPICUR staff are organized as regular UCF courses and listed in the LAS Course Catalog. Reserved EPICUR slots not taken by students from EPICUR partners will be assigned to UCF students on the waiting list during the post-registration period 2 and in registration period 3.
- EPICUR courses offered at the EPICUR partners can be taken by UCF students. These courses adhere to the individual partner's academic calendar and course organization. In some cases, these courses may map to UCF requirements or they may simply be taken as elective credits.

Due to the international schedule and staggered semester dates at EPICUR partners, **EPICUR courses and the LAS semester dates may not align.**
The EPICUR LAS summer 2024 course catalog will be published soon! Registration will open in March at which time you can check if the EPICUR offer piques your interest and fits your schedule.

More information on upcoming courses and on course registration is available in the course catalog and on EPICampus, the EPICUR Virtual Campus Learning Platform. Credit recognition at UCF follows the procedure for courses taken outside the University of Freiburg during LAS.

3 LAS Academic Calendar

Date		Important Dates and Deadlines
March 2024		
Starting 07.03.		**LAS Course Registration** with consecutive registration periods for courses of the upcoming summer semester (see Course Registration)
Mon	25.03.	**Application for SLI Language Courses** begins (individual courses paid by UCF) Guidelines and application forms are available on the LAS Info Board)
18. – 28.03.		**Pre-Block** Courses
Fri	29.03	Public Holiday: Good Friday (no teaching)
April 2024		
Mon	01.04.	Public Holiday: Easter Monday (no teaching)
Tue	02.04.	**Block III** begins
02. – 14.04.		Exam Registration **and withdrawal** for courses of Block III in HISinOne
Fri	06.04.	**Deadline: Application for Courses of other Degree Programs** at the University of Freiburg - Confirmation from Major/Core Coordinators
Mon	15.04.	**University semester** begins
15. – 28.04.		Exam Registration for semester-long courses in HISinOne
29.04. – 05.05.		**Withdrawal from examination** for semester-long courses in HISinOne
Sun	28.04	**Deadline: Application for Courses of other Degree** Programs at the University of Freiburg (for all graded examinations). Guidelines and application forms are available on the LAS Info Board.
May 2024		
Wed	01.05	Public Holiday: May / Labour Day
Thu	02.05.	**Deadline: Application for Admission of Bachelor Thesis.** Guidelines and application forms are available on the LAS Info Board.
		Publication of the Bachelor Thesis Timeline 2025
Thu	09.05.	Public Holiday: Ascension Day (no teaching)
Tue	14.05.	**Event:** Study Abroad Fair
20 – 25.05		Pentecost Holidays (no teaching, but examinations of Block III possible)
Thu	30.05	Public Holiday: Corpus Christi
Fri	31.05	**Block III** ends
June 2024		
Mon	03.06.	**Block IV** begins
03. – 16.06.		Exam Registration **and withdrawal** for courses of Block III in HISinOne
Wed	15.06.	**Deadline: Application Credit Recognition for Study Abroad and Previous Studies** Guidelines and application forms are available on the LAS Info Board.

Date		Important Dates and Deadlines
Fri	23.06.	**Deadline: Exam Registration and Withdrawal** for courses of Block IV *and* semester-long courses in HISinOne
July 2024		
Wed	17.07.	**Event:** Major Information (tbc)
Fri	19.07.	**University semester** and **Block IV** end
Wed	31.07.	**Deadline: Major Declaration**
		Deadline: Application for Graduation SS 2023
August/September/October 2024		
Fri	09.08.	Publication of the LAS Course Catalog WS 2023/24 on the UCF website
Fri	02.09.	**Deadline: Application for Admission of Bachelor Thesis**
Starting 12.09.		**LAS Course Registration** for courses of the Winter Semester 2023/24 with consecutive registration periods (details tba)
23.09. – 04.10.		**October Intensive Courses** (details tba)
07. – 11.10.		**LAS Welcome Week**
Mon	14.10	**University semester** and **Block I** begin

4 Course Registration

The outlined course registration procedure ensures that Liberal Arts and Sciences students and LAS exchange students can register for a sufficient number of courses to keep up with their studies and that they get priority for compulsory courses they require in order to graduate.

The LAS course registration procedure **applies to all courses offered by UCF that appear in the LAS Course Catalog (unless stated differently in the remarks section of the individual course descriptions).** Information on taking courses of other degree programs and by the Sprachlehrinstitut (SLI) of the University of Freiburg is available on the LAS Info Board on ILIAS.

4.1 When to Register for Courses?

LAS students register during the three consecutive registration periods as outlined below. Please note that students may have to register for different courses at different times.

LAS exchange students can register for courses during Registration Period II and III.

Students of partner degree programs at the University of Freiburg can register for courses during Registration Period II. Please additionally contact UCF (las.consultation@ucf.uni-freiburg.de) well in advance.

Registration Period I **Thursday, 07.03. – Monday, 11.03. (14h)**		
Who can register	**For what**	**Comment**
Liberal Arts and Sciences (LAS) students who have formally declared their major by 31st of January	LAS courses to be recognized as **Major courses only** (not as Electives, Core or Language courses!)	LAS students are allowed to register for a **maximum of 5 courses in total** (including language courses paid by UCF, excluding pre-block courses). If students register for more than 5 courses they will be removed from the most popular courses. No exceptions to this rule will be made. LAS Students who have not formally declared their major by 31st of January can only register for courses in Registration Period II.
Places will be assigned after the registration period. Higher year students will get priority on places unless otherwise noted in the course description. **You can check your registration status on Tuesday evening.** Your registration request may have been declined or you may have been moved to a different workgroup. Students whose registration requests have been declined will have the opportunity to register for alternative courses on **Wednesday, 13.3., 14-18**h in HIS-inOne. **Please, de-register from courses that you do not want to take immediately.**		

Registration Period II **Thursday, 14.03. – Monday, 18.03. (14h)**		
Who can register	**For what**	**Comment**
LAS students (who have not yet achieved all credits in the respective area) **and LAS exchange students**	All courses listed in the LAS Course Catalog.	LAS and Exchange Students are allowed to register for a **maximum of 5 courses in total** (including language courses paid by UCF, excluding pre-block courses). No exceptions to this rule will be made.
Places will be assigned after the registration period. Higher year students will get priority on places unless otherwise noted in the course description. Whether or not a student has declared their major will not be considered anymore. **You can check your registration status on Tuesday evening.** Your registration request may have been declined or you may have been moved to a different workgroup. Students whose registration requests have been declined will have the opportunity to register for alternative courses on **Wednesday, 20.3., 14-18h** in HIS-inOne. **Please, de-register from courses that you do not want to take immediately.**		

Registration Period III Thursday, 21.03. – Monday, 25.03. (14h)		
Who can register	**For what**	**Comment**
LAS students, LAS Exchange students, and **Students of partner degree programs at the University Freiburg**	All courses listed in the LAS Course Catalog	Students can register for courses that still have places available. Students are allowed to register for a **maximum of 6 courses in total.**
Places will be assigned throughout the registration period. Regularly check your registration status in HISinOne. Your registration request may have been declined. In some cases, priority on places will be given to students of partner degree programs. **Please, de-register from courses that you do not want to take immediately.**		

4.2 How to Register for Courses?

Course registration takes place in the campus management system HISinOne. For a description of the registration process, please consult the LAS Info Board on ILIAS.

4.3 Participant Lists

Course participant lists will be finalized **on Wednesday, 27.03.2024** and passed on to the instructors. Later admissions to courses by the LAS program coordination will not be possible.

The final decision about participation in a course is always with the course instructor. Students may be excluded from a course at a later stage, e.g. if they do not fulfill the prerequisites or have not reached the required year of studies. It is also up to the instructors whether or not they admit students once the participant lists are finalized.

Courses with will less than five participants may be canceled.

4.4 New: Course Cancellation Period

Students can withdraw from courses before the semester start. The cancellation period will be from **8.-12.04. (noon).** Students from the waiting list may be assigned to courses during that week.

4.5 Problems with Course Registration?

If for some reason course registration does not work for you, please **contact the LAS program coordination** (las.consultation@ucf.uni-freiburg.de) **immediately**.
Requests after the deadline specified will not be considered.

Always provide

- your name, matriculation number and major (if declared formally),
- your study and examination regulations (2015, 2020, Exchange student),
- the exact course and module title that you wish to register for,
- and information about your problem. Please provide a screenshot of your problem whenever possible.

5 Exam Registration

All students who wish to get credits for courses need to register for examinations.

5.1 When to Register for Examination?

Registration Period	Dates	Exam Registration and Withdrawal
1a	Various dates; tba in class	Registration Pre-Block
1b	**02.04. – 14.04.2024**	Registration and withdrawal Block III
2	**15.04. – 28.04.2024**	Registration semester long courses
	29.04. – 05.05.2024	Withdrawal semester long courses
3	**03.06. – 16.06.2024**	Registration and withdrawal Block IV

The registration periods apply to all courses offered by UCF (unless otherwise noted in the course details). Courses of other degree programs have different registration periods.

Please register right at the beginning of the registration period in case any problems arise. Please remember: **You are not allowed to take part in the exam or will not be given a grade for any written work if you have not registered by the deadline specified.**

5.2 How to Register for Examination?

All LAS students (including first year students) and LAS exchange students (on UCF programs only) register their examinations in the campus management system HISinOne as outline on the LAS Info Board on ILIAS.

5.3 Students of other degree programs and other exchange programs

UCF does not organize exam registration for students of other degree programs and for international exchange students from other departments. Here exam registration is organized at the relevant faculty or by the international office for students on international office exchange programs. Students should contact their faculty or the International Office.

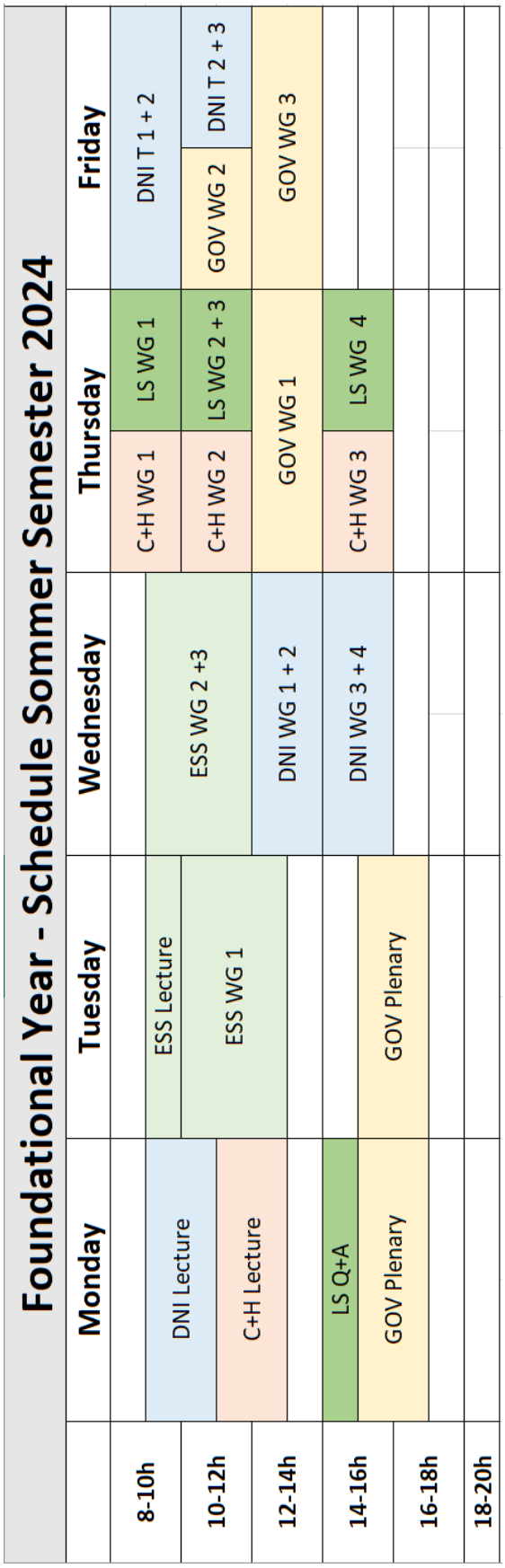
5.4 Has the exam registration been successful?

Pass/fail assessments (Studienleistungen) will appear as REG (Registriert) and graded assessments (Prüfungsleisungen) as ZU (zugelassen) in HSinOne. Please always double check on HISinOne: *My enrollments and registrations* or your transcript of records.

5.5 Problems with Exam Registration

See Problems with Course Registration.

Foundational Year Schedule



Be aware of overlapping groups and avoid clashes in your course registration.

II Course Descriptions

1 Pre-Block Courses

1.1 Study Area: Core

Agile Processes in Student Projects			
Core		Pre-Block	
Dr. Johanna Gampe (johanna.gampe@gmail.com)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	2	15	00LE62S-LAS-CO0092
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Advanced Academic Skills	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar 19.-27.3. (Tuesdays and Thursdays): Tue 19.3., 14-17:30h, AU 01.065 Thu 21.3., 14-17:30h, AU 01.036a Tue 25.3., 14-17:30h, AU 01.036a Thu 27.3., 14-17:30h, AU 01.036a		
Course Description	This course is dedicated to student project and UCF engagements such as the Students Council. The goal is to improve your processes and your self-efficacy by applying both agile methodologies and coaching. In a first step, you will learn and reflect some basic agile principles with its team values, with its flexible processes and structuring roles. In a next step we will analyze your current situation before we then elaborate improvements and optimizations in order to enhance effectiveness and efficiency. In this course we will conduct exercises and experimentation in order to create the best fit. The course concludes with your next steps and with your lessons learned.		
Remarks	This course may be especially relevant for students of the UCF student council and those who are or want to become active in a self-organized group. If you have difficulties with individual course dates or have questions concerning the course, please get in touch with johanna.gampe@ucf.uni-freiburg.de..		
Examination	SL only: Participation in course activities and smaller assignments.		

Resilient by Music			
Core		Pre-Block	
Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de), Fiona Combosch (fionac@posteo.de), Nico Hutter (nicohutter@web.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	18	00LE62S-LAS-CO0090
Module(s) StuPo 2015		Module(s) StuPo 2020	
Responsibility and Leadership II		Responsibility and Leadership II Senior Profile Culture and History	
Prerequisites	none		
Format, Dates, Times and Rooms	Pre-block Intensive 18.-22.3.: Mon-Fri, 9-12h, Ph HS 3 Mon, Wed and Thu, 14-17h, AU Co-Creation Room + 01.065 25.-26.3. Mon and Tue, 14-18h, AU Co-Creation Room + 01.065		
Course Description	Making music can help humans to cope with stress and crisis. The block course engages with this amazing capacity of music in two ways: in a theoretical and in a practical course component. The mornings are reserved for a thorough academic examination of topics such as resilience, stress and relaxation, self-efficacy, motor learning and repetitions, feedback and instructions, focus of attention, and presence. In the afternoons, students will practise music with an experienced musician and choir leader. The students will form a choir and improvise together, and, in small groups, engage in song writing and all the steps necessary to bring that song to the stage. And yet, this course does not require experience in singing or practising music! It rather aims at encourage and inspire our inner musician, no matter how little say they had in the past.		
Remarks	Course registration in HISinOne: 15.1.-10.3.2024.		
Examination	26.03.2024		

The Argument: Formulating and Situating a Thesis Statement			
Core		Pre-Block	
Dr. Nicholas Buchanan (nicholas.buchanan@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	2	18	00LE62S-LAS-CO0091
Module(s) StuPo 2015		Module(s) StuPo 2020	
Electives		Advanced Academic Skills Senior Profile Life Science	
Prerequisites	none		
Format, Dates, Times and Rooms	Pre-block Intensive 18.-29.3. Tue, 8-12h, AU 01.065 Thu, 8-12h, AU 01.065		
Course Description	In this workshop, we will focus on identifying, understanding and writing effective arguments and thesis statements. While the focus is primarily on argumentation in the humanities and social sciences, “the argument” is a universal aspect of scholarship, and students with foci in the natural sciences will also benefit from this course. We will begin with a discussion of how to read for arguments, and we will practice identifying arguments in a variety of texts, situating arguments within scholarly and popular discourses, and understanding different types of arguments and their individual components. Primarily, however, we will practice writing effective, original, and (most importantly) supportable arguments. The course will involve both reading- and (short) writing-assignments, as well as peer-editing and discussion of student work.		
Remarks	Course registration in HISinOne: 15.1.-10.3.2024.		
Examination	SL only: Attendance and in-class projects are required.		

1.2 Study Area: Multiple

Beer and Wine as Craft			
Elective		Pre-Block	
Dr. Sabine Sané, Dr. Simon Büchner, Dr. Ryan Plumley, Christoph Howe			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	2	15	00LE62S-LAS-CHEE0001
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Advanced Academic Skills	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Mon, March 18, 9-10:30h, AU 01036a Tue, March 19, 15-16:30h, AU Co-Creation Room 17:45 Visit to Weingut Dilger Wed, March 20, 9-10h, AU 01036a 10- 19h UCF Kitchen Thu, March 21, 10-13h (Visit to Brauerei Feierling) Mon, April 8, 9-12h, UCF Kitchen		
Course Description	Beer brewing and winemaking are crafts in which humans interact with other organisms (yeast, hops, and grains) to create an appealing taste. We will focus on the knowledge and practice involved in the production of beer and wine in ways that offer both positive opportunity and negative consequences for the people, the organisms, and the environment. For that purpose, we will engage in craft by making our own beer, practicing the gestures and timing, and learning how natural organisms can be utilized to make beer. We will also visit local craftspeople to learn from their experiences in field trips to Feierling Brauerei and to the Andreas Dilger Winery. Questions we will consider include: What is a craft? What makes craft knowledge distinct from other kinds of knowledge? How is scientific expertise related to craftsmanship? How do human beings create reciprocal relationships to other organisms and to the wider environment? How does participating in craft production affect your perception (taste) of the product?		
Remarks	You do not need to drink alcohol in order to attend the course. To cover the cost of the brewing supplies, participants must pay 15 EUR as cash to Dr. Simon Büchner by March 1. Please indicate your interest by the end of Feb. 23 by emailing Dr. Ryan Plumley (ryan.plumley@ucf.uni- freiburg.de). The course can accommodate 10 students. We will finalize the participant list on Feb. 26- 27.		
Examination	SL only: The pass/fail assessment includes attendance and active participation for all sessions on March 18- 21 and a short reflective essay (max. 1000 words) due March 29.		

(Non)Discrimination: Legal and Sociological Approaches			
Governance, Culture and History		Pre-Block and Semester	
Dr. Sabrina Ellebrecht (sabrina.ellebrecht@soziologie.uni-freiburg.de), Nathalie Kornet (nathaliekornet@gmail.com), Ruth Billen (ruth-billen@posteo.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CHGO0014
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Governance III Specialization Option Culture and History I or II		Advanced Governance I + II Senior Profile Governance or Culture and History Specialization Option Culture and History I or II	

Prerequisites	For senior modules, prerequisites apply
Format, Dates, Times and Rooms	Pre-block Intensive: 25.-28.03.2024, 9-16h, Ph HS 3 Semester-long colloquium Thu, 16-18h, KG 1134
Course Description	This course offers an in-depth exploration of discrimination, integrating perspectives from sociology, human rights and socio-legal studies. It provides students with comprehensive insights and practical tools through a problem-oriented approach. The course begins with a deep dive into the international human rights system and the legal prohibition of discrimination in human rights law. Students will learn to accurately and effectively communicate in legal contexts. The course continues by focusing on sociological and intersectional perspectives on discrimination, covering theoretical approaches ranging from traditional liberal and empirical to critical perspectives. The next part focuses on case studies, where students analyze real-life examples of discriminatory circumstances in different countries, and examine related case law, policy, and civil society perspectives. These three sections of the course take place over one intensive study week before the start of the summer semester. The course continues as a weekly colloquium during the summer semester, offering students the opportunity to continue with the case studies, working step by step on a research paper on (non-)discrimination. The focus is on the application of law and theory to a case and the methodology to record and report discrimination empirically. Upon successful completion of the course, students will have a well-rounded ability to analyze discrimination from both legal and theoretical perspectives, conduct research on human rights issues and present their findings in a structured manner.
Remarks	Ruth Billen studied LAS in Freiburg as well as law at HU Berlin and has worked in non-governmental institutions on human rights related topics. She is currently law clerk at the Higher Court of Berlin. Sabrina Ellebrecht is a Senior Researcher in Sociology at the Centre for Security and Society at the University of Freiburg. Nathalie Kornet is an interdisciplinarily trained (incl. LAS in Freiburg) social scientist with work and research experience in human rights, intersectionality and socio-legal studies.
Examination	SL: participation and attendance; reading notes on one of the required readings; group presentation of the case study in the intensive week; an individual two-page summary; PL: graded written assignments, final research paper at the end of the semester.
Recommended Reading	Tomuschat, C. (2008). Human Rights. Between Idealism and Realism. Ch. 2, History of Human Rights (pages to read: 73 -90). Donnelly, J., & Whelan, D. J. (2020). International Human Rights. Part I - Ch. 1, Human Rights in Global Politics – Historical perspectives (pages to read: 3-20). Baxi, Upendra. (2008). The Future of Human Rights (3rd ed.) - Ch. 2: Two Notions of Human Rights, ‘Modern’ and ‘Contemporary’ (pages to read: 33-45).

2 Courses Offered in Block III

2.1 Study Area: Core

Intercultural Competence			
Core		Block III	
Holger Witzenleiter (kontakt@holger-witzenleiter.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	2	16	00LE62S-LAS-CO0093
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Advanced Academic Skills	

Prerequisites	none
Format, Dates, Times and Rooms	Intensive Seminar 08.-12.04.2024 Mon-Wed, 9-17h, AU 01.036a Thu-Fri, 9-17h, AU 01.065
Course Description	In a globalized world and especially in daily working routine we more than ever meet and work with people representing different cultural backgrounds. To speak a common language can only provide a first step into successful communication across borders. For a productive cooperation, also intercultural competence is required to deal effectively with each other. On top of this knowledge we need specific skills, that help developing sensitivity for intercultural interaction. This seminar focuses on Intercultural Communication for various fields of business, international cooperation, import/export, Human Resource management as well as education. The goal is to transmit knowledge, elicit self-regulation and provide tools for a reflective professional dealing with intercultural situations. Contents: • Terms and models of culture • Culture and identity: sensitizing for own cultural imprint; otherness, ethnocentrism • Cultural filters: neutral and value-free observation, process of attribution, comparison of self- and foreign perspective • Culture “grammar”: norms and values, attitude towards time, space, individualism/collectivism • Culture exploration: ethnographic method including field study - questioning and exploration models of communication • Critical Incidents
Remarks	This is the first part of a modular system of seminars, that will help you to systematize your intercultural experiences and provides the opportunity to become a trainer for Intercultural Communication yourself. (please see www.xpert-ccs.de). This EPICUR course will be offered again 26.-30.08.2024.
Examination	SL only: Presence and active participation.

2.2 Study Area: Earth and Environmental Sciences / Environmental and Sustainability Sciences

Geosciences: A Crash Course in Theory and Practice			
ESS		Block III	
Dr. Lukas Gegg (lukas.gegg@geologie.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-EE0037
Module(s) StuPo 2015		Module(s) StuPo 2020	
Earth Sciences		Earth System	

Prerequisites	none
Format, Dates, Times and Rooms	Seminar Mon, 14-16h, AU 01.036a Wed, 14-16h, Ph HS 3 Fri, 12-18h, excursions
Course Description	How did the Earth form? Which processes shape its appearance? How can our planet harm us on the one hand, and how can we learn and benefit from it on the other? And, finally, how do we treat it sustainably? These are some of the core questions that we will address during this course. Students will acquire a basic understanding of the system Earth, familiarize with its origin, its history and structure. They will get to know its landscapes, rocks, and sediments, and will learn how to read them and understand the underlying processes. Following this fundamental overview, we will shift our focus more and more towards applied aspects such as geohazards, geogenic resources, and waste management. The course is divided into a series of interactive introductory lectures combined with students' presentations, and field trips in the near surroundings (e.g. Schauinsland and Kaiserstuhl). The latter will allow us to experience and discuss different geoscientific topics hands-on.
Examination	Written exam on Friday, 31.05. (60 min., 70%). Written assignment by 28.06. (30%)
Recommended Reading	J. Erickson – Making of the Earth: Geologic Forces that Shape Our Planet R. J. Hugget – Fundamentals of Geomorphology

2.3 Study Area: Life Sciences

Pandemics 1 - Determinants and Management			
Life Sciences		Block III	
Txema Calleja (txemacalleja@gmail.com)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	12 UCF students	00LE62S-LAS-LS0033
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Life Sciences I, II or III		Advanced Life Sciences I, II or III	
Prerequisites	none		
Format, Dates, Times and Rooms	Online Seminar with international partners 12.4.-7.6.2024 Fri, 14-16h		
Course Description	As humans have spread across the world, so have infectious diseases. Even in this modern era, outbreaks are nearly constant, but not every outbreak reaches pandemic levels. There are some major pandemics that have afflicted humankind throughout history such as plague, cholera, influenza and corona virus diseases, thus it is important to know the way they were controlled in the past and how these diseases are managed today. Infectious diseases still represent threats for human health as pathogens can spread rapidly through global trade and travels. Global surveillance programs are thus needed to detect and identify pathogens' spillover from animals to humans as well as to control waterborne pathogens and vector-borne diseases. We have selected 6 pandemics that are still relevant: HIV/AIDS, malaria, tuberculosis, dengue fever, Covid-19, and Ebola, but will also discuss other examples. The overall objective of the proposed project is to train students in the prevention, early detection, management and monitoring of major contemporary pandemics. The specific learning objectives of this course are related to the following topics: Students will be able to understand and describe: i) Pandemics in history and in modern times; ii) How to measure the transmission dynamics and expansion of epidemics/pandemics; iii) Pathogens causing epidemics/pandemics and their routes of transmission; iv) Epidemiological indicators to measure the extent and burden of a pandemic; v) Social and cultural determinants driving a pandemic; vi) Response options to different pandemics; vii) Coping strategies in Health Services with the fast surge of cases; viii) Transmission prevention according to the route of transmission.		
Remarks	Online class, jointly with students from the Global Urban Health Master program and other programs. Students must be ready to prepare a presentation jointly with a student from a different study program who is located in a different place. Note: this class uses the flipped classroom approach and requires a considerable amount of self-study by the participant, before the class starts and before each meeting. Participation in all online sessions is required. Note, that there is a meeting during the Pentecost break!		
Examination	Presentation (30%) on June 7 (14-18h) and final report (70%) due on June 16.		

2.4 Study Area: Multiple

Quantitative Research Methods			
Life Sciences, ESS, Governance		Block III	
Dr. Luke Brooks-Shessler (lshesler@colby.edu)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-GOLSEE0006
Module(s) StuPo 2015		Module(s) StuPo 2020	
Analytical Methods (EES) Quantitative and Qualitative Methods (GOV) Methods (LS)		Methods I or II (LS and ESS: quantitative) Methods (GOV)	
Prerequisites	DNI		
Format, Dates, Times and Rooms	Seminar Tue, 8-12h, KG 1027 Thu, 8-12h, FMF 01.009		
Course Description	This course provides students with a foundational statistics skill set for addressing quantitative research questions across disciplines and areas of interest. As part of this course, students will give presentations based on analyses using the most recent European Social Survey (https://www.europeansocialsurvey.org/). Students will be able to assess questions, such as (but not limited to): • How does political party membership in Germany affect attitudes toward the EU? • Do religious people tend to be happier than non-religious people? • Are people who participate in more social activities healthier than people who participate in fewer social activities? In order to address these questions (and many more), this course will walk students through statistical concepts step-by-step, such as measures of central tendency and variability, characteristics of the normal curve, correlation and prediction, and hypothesis testing techniques such as t-tests, chi-square, analysis of variance, regression, and non-parametric methods. During class, students will have the opportunity to ask questions and to practice statistical analyses. Given the instructor's background in psychology, statistical examples will be drawn primarily from psychology. Here is an example of the type of paper that can be written using the statistical techniques covered in this course: https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2812966 Learning Objectives • Formulate research questions in quantitative form that can be evaluated. • Understand the logic of hypothesis testing and statistical significance. • Learn computerized techniques for analyzing data.		
Remarks	Each class meeting lasts four hours and will be more like a workshop. Classes will include a lecture component, as well as activities and assignments. Students will learn how to use JASP, a free statistical software package, during class. In order to participate in this course, students must have a computer or access to a computer that they can bring to class and that meets the system requirements for installing JASP. JASP is an essential component to this course because students will use it to conduct statistical analyses. Students can review JASP's system requirements and download a copy of JASP here: https://jasp-stats.org/download/ Prior to the first day of class, students must successfully install JASP on their computers.		
Examination	Three written assignment(s) (70 %) and presentation (30 %). The composition of the PL may very acc. to the major / module.		

3 Courses Offered in Block IV

3.1 Study Area: Core

Conducting Qualitative Interviews			
Core		Block IV	
Hannes Bürkel (hannes.buerkel@posteo.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	2	15	00LE62S-LAS-CO0075
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Advanced Academic Skills	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Wed, 12-14h, KG 1236		
Course Description	Qualitative interviews are a versatile methodological tool to gain knowledge on people's thoughts, culture, mental frameworks, past and everyday experiences and the meaning people give them. In this introductory course we will discuss various forms of qualitative interviews (e.g. semi- and unstructured, ethnographic, focus group) and their analysis (e.g. coding, fine structure analysis, grounded theory) in a practice-oriented manner: students will plan, conduct and analyze an independently designed interview. To prepare for that we will draw on texts of cultural anthropology and sociology and address practical challenges as well as ethical considerations. Compared to quantitative methods, qualitative interviews bring along modalities to approach the subjects with less intricate guides, without predefined-answer surveys and with the subjects' greater freedom to express themselves. We will explore these advantages while keeping in mind that quantitative and qualitative approaches are not opposing concepts but methodological tools that can complement and enrich each other.		
Remarks	Students of PO2020 have priority		
Examination	SL (only): Conduct, transcribe and analyze interviews.		

Interdisciplinary Thinking			
Core		Block IV	
Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	2	20	00LE62S-LAS-CO0088
Module(s) StuPo 2015		Module(s) StuPo 2020	
Electives		Advanced Academic Skills	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar 08.06.,10-15h, AU 01.036a 15.06., 10-15h, AU Co-Creation Room 22.06., 10-15h, AU 01.036a		
Course Description	In this course, students will read about and discuss different understandings of interdisciplinarity, as well as different interdisciplinary research designs and methodologies. Starting from two research topics provided by the instructor, they will devise a methodology for an interdisciplinary research project themselves. Students may also bring their own experiences and struggles with interdisciplinary thinking to class and, against the backdrop of the literature dicussed, receive advice from peers and instructors.		
Examination	Group presentation, 20 min., 22.06.2024		

Psychology of Creativity and Innovation			
Core		Block IV	
Dr. Luke Brooks-Shessler (lshesler@colby.edu)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CO0089
Module(s) StuPo 2015		Module(s) StuPo 2020	
Responsibility and Leadership II		Responsibility and Leadership II	

Prerequisites	none
Format, Dates, Times and Rooms	Seminar Tue, 8-12h, KG 1036 Thu, 8-12h, Bismarckallee 22, R3
Course Description	Based on Industrial and Organizational Psychology, this course explores creativity and innovation. Students will learn about theories, predictors, consequences, measurement and critiques of creativity and innovation at work. We will also explore potential innovations in currency, organizational design, and city planning. As part of an applied project, students will work individually or in pairs on an innovative business idea. In this seminar-style course, meetings will focus on class discussions of assigned readings, lectures and in-class activities. Please note that this course focuses on understanding the psychology of creativity and innovation but it does not train students how to be creative and innovative. Learning Objectives • Understand the distinction between creativity and innovation. • Understand psychological theories that apply creativity and innovation to the workplace. • Understand antecedents and consequences of creativity and innovation at the individual, group and organizational levels. • Learn how to measure and assess creativity and innovation at the individual, group and organizational levels. • Apply the principles of creativity and innovation to real-world situations.
Examination	SL: Pitch and discussion leader. PL: Written assignment of 3,500 words or 2-3 written assignments, final deadline 19.07.

3.2 Study Area: Earth and Environmental Sciences / Environmental and Sustainability Sciences

People, Landscape, Management: Planning for Ecosystem Services			
ESS		Block IV	
Dr. Joachim Schmerbeck (Joachim.schmerbeck@waldbau.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-EE0029
Module(s) StuPo 2015		Module(s) StuPo 2020	
Human and the Environment Specialization Option EES I and II		Human and the Environment I and II Specialization Option ESS I and II	

Prerequisites	none
Format, Dates, Times and Rooms	Seminar Tue, 8-12h, FMF 01.009 Thu, 8-12h, FMF 01.009, Excursion on Friday, 28.06., 13-17h
Course Description	For more than two decades we have become increasingly aware of the benefits that we derive from our living environment. We call these benefits ecosystem services. But it still seems that the sustainable utilisation of these services does not materialise in most human-nature systems. At the same time the importance of well-functioning management systems for our living environment is increasing in the face of a rising demand for ecosystem services, decreasing resources and profound changes in climatic conditions ahead of us. In this course we will develop the principal context in which human-nature systems and their planning happen. We will learn how landscapes are dynamic and which factors drive these dynamics. We will focus on the role humans play in landscape dynamics and how this influences the quantity and quality of ecosystem services. We will also understand the factors and methods that are essential for and the limitations of adaptive management systems for the sustainable use of ecosystem services. Based on this we work on cases of landscape management for ecosystem services taken from a recently completed GIZ (Gesellschaft für Internationale Zusammenarbeit) project which was led by Dr. Schmerbeck. We will do our own assessment and planning for cases in the landscape of the Western Himalayas after we become familiar with the natural settings and socioeconomic background of this region. We will primarily work together in student led workshops, while topics will be introduced in Seminars. The group work will be presented in presentations at the end of the course. After the course students will be able to • Understand and apply the concepts of ecosystem functioning and services • Be familiar with the challenges in planning and management for ecosystem services. • Apply basic principles of planning and management of ecosystem services.
Examination	Literature review (40%) due 02.07. and Project work report due 15.07. (60%)
Recommended Reading	Costanza R. et. Al (1997): The value of the world´s ecosystem services and natural capital. In: Nature. 387, Mai 1997, S. 253-260 MA 2005: Millennium Ecosystem Assessment, Ecosystems and Human Well-being: Biodiversity Synthesis. World Resources Institute, Washington, DC Naudiyal, N. and Schmerbeck J. (2018). Linking forest successional dynamics to community dependence on provisioning ecosystem services from the Central Himalayan forests of Uttarakhand. Environmental Management 62 (5): 915–928

3.3 Study Area: Governance

Governance: Oral Exam			
Governance		Block IV	
Dr. Mila Mikalay (mikalay@ucf.uni-freiburg.de) and Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 4	4	10	00LE62S-LAS-GO0086
Module(s) StuPo 2015		Module(s) StuPo 2020	
---		Senior Profile Governance	
Prerequisites	STUPO prerequisites for Senior modules apply		
Format, Dates, Times and Rooms	This is a graded assignment only format. The oral examination is a 1-hour commitment and will be scheduled for July 19, 12:00 (tbc).		
Course Description	This examination is offered as part of the Senior Profile to Governance students. It offers 4 ECTS for an oral examination on Governance-related topics, which students learn about in foundational Governance modules, such as the Introduction, Political Theory, Comparative Politics and International Relations. The examination is based on a list of topics, announced on the Governance Wiki, and consists of a 45-minutes preparation time followed by a 30-minutes oral examination, in presence or online. Topics cover central concepts, questions and debates across Governance disciplines. General examples of topics: ▪ balance of power as a mechanism of avoiding oppression domestically and internationally, ▪ legitimacy of authority and processes of legitimation (different types of rules, civil society and activism, civil disobedience and uprisings), ▪ influence of institutional setups on political processes (strong judicial branch as an agenda-setter, majoritarian election systems as a factor of social divisions). Preparing to the examination thus allows students to review and integrate their learning within the Major and enhance their ability to apply skills and knowledge to complex problems and current cases. The detailed procedure of the examination, list of topics, preparation suggestions and grading rubrics will be announced on the Governance Wiki. Students are assessed on how well they are able to demonstrate the following abilities (Senior Profile learning goals): ▪ identify, describe, illustrate, compare and assess the ways to integrate knowledge about social, political and economic reality across disciplines and contexts; ▪ choose, adapt and assess the use of disciplinary and interdisciplinary vocabulary, and ways of presenting and communicating knowledge about social, political and economic reality.		
Remarks	This is a PL only offering. There are no meetings associated with it, apart from the examination itself.		
Examination	Resit Date in the re-sit period of the WS 24/25.		
Recommended Reading	See the exam brochure on the Governance Wiki for revision suggestions (all readings come from standard Governance courses).		

3.4 Study Area: Multiple

Anthropology of the State: Ethnographic Perspectives			
Culture & History, Governance		Block IV	
Dr. John Friedman (j.friedman@ucr.nl)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CHGO0013
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Governance I and II Culture & History Specialization Option I and II		Advanced Governance I or II Culture & History Specialization Option I and II Senior Profile Culture & History	
Prerequisites	For senior modules, prerequisites apply		
Format, Dates, Times and Rooms	Seminar Mon, 14-16h, AU 01.036a Wed, 14-16h, Ph 3 Fri, 12-14h, Ph 1		
Course Description	The field of socio-cultural anthropology studies social and cultural variation through time and across space, and it does so through a focus on people and their communities. As anthropologists we are accustomed to investigate the localised, the small-scale, the village community. However, during this course we move beyond the local in favour of social formations and institutions altogether more complex, varied, global and dispersed. Here, we aim to constitute 'the State' as an ethnographic object of study in its own right. How might an anthropologist study such an amorphous and problematic object? What might constitute a so-called ethnography of the State? And, what can our discipline offer to broader understandings of 'the State' in modern times? In charting some of the ways contemporary anthropologists have chosen to tackle the complex social and cultural processes of the State, we first tool ourselves theoretically. Students reflect on the problematic nature of 'the State'; review Marxist and neo-Marxist renditions of it; consider the complex relationship between 'the State' and civil society; and explore Michel Foucault's concept of governmentality. Subsequently, we focus in on some of the different faces of the state – that is, on its numerous manifestations and manifold expressions. Thus, we explore questions of legibility, state technologies, and the ways states 'see'; we review various aspects of nationalism, and look at the relationship between gender and the nation; we consider the anthropology of bureaucracy with a focus on immigration; and we look at the ways ordinary people construct 'the State' through everyday acts of political imagination. The syllabus draws on literature from a wide-range of social and cultural contexts, as well as from other related academic disciplines (including history, sociology, geography and political science).		
Examination	19.07.2024		

Basics of Ecology			
ESS, LS		Block IV	
Dr. Joachim Schmerbeck (Joachim.schmerbeck@waldbau.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-LSEE0014
Module(s) StuPo 2015		Module(s) StuPo 2020	
Ecology		Ecology and Biodiversity Advanced Life Sciences, I, II or III	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Tue, 14-16h, AU 01.065 Thu, 14-18h, VF 00.003 Fri, 21.06., 8:15-18h: Excursion		
Course Description	This course aims to enable you to understand the ecological background of the main environmental topics that you will be confronted with in your future professional environment. In the first part we will create the basis for an understanding of ecological principles. This will cover the main environmental factors and their impact on the development, abundance, and distributions of organisms. As part of the basics in ecology we also have a closer look on the emergence and drivers of biodiversity and in the main pattern of landscape ecology. In the second part of the course, you will work in small groups on relevant environmental topics of today. These projects will allow you to deepen your understanding of the ecological background of today's environmental concerns and will enable you to take part in the ongoing discussions from an ecology science angle. We will work together on information and explanations that I give you. We will discuss key papers and fit them in an ecological framework. You will work in groups on the topics of the second part and present them to all course members at the end of the course.		
Examination	Open Book Assignment to be completed in a given time on 20.06. 2024 (40%). Individual oral presentation (10 min, 60%) of a group project work on 15. or 18.07.2024.		
Recommended Reading	Begon M., Townsend C.R., Harper J.L (2006): Ecology, from Individuals to Ecosystems, Blackwell Publishing, Carlton Odum E. and Gary W. Barrett (2004): Fundamentals of Ecology, Cengage Learning; 5th edition (July 27, 2004) Monica Turner, R H Gardner. Landscape Ecology in Theory and Practice: Pattern and Process. Springer Verlag Thompson, K. (2014): Where do camels belong, Greystone Books Pörtner et al. (2021): IPBES-IPCC co-sponsored workshop report on biodiversity and climate change; IPBES and IPCC. DOI:10.5281/zenodo.4782538.		

Environmental Governance in the Digital Age			
ESS, Governance		Block IV	
Dr. Tanya Baycheva-Merger (tanya.baycheva@ifp.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	14	00LE62S-LAS-GOEE0005
Module(s) StuPo 2015		Module(s) StuPo 2020	
Human and the Environment Specialization Option EES I and II Specialization Option Governance I or II		Human and the Environment I and II Specialization Option ESS I and II Specialization Option Governance	

Prerequisites	none. For senior modules prerequisites apply.
Format, Dates, Times and Rooms	Seminar Mon, 12-14h, AU 01.036a Wed, 12-14h, KG 1019 Thu, 12-14 AU 01.065
Course Description	We live in a world of information. Technological innovations are constantly emerging: internet and social media, blockchains, big data, and artificial intelligence are some of the most promising information technologies of our times. Integrating these tools within environmental governance has the potential to revolutionize the way we address complex environmental challenges, optimize resource allocation, and enhance sustainability efforts. Harnessing the full potential of information technologies, however, requires a comprehensive understanding of their implications - an indispensable prerequisite for those seeking to actively contribute to environmental management and governance. This seminar aims to equip students with the necessary knowledge, foster understanding and critical reflection on the implications of emerging information technologies to support environmental governance. In the first part, students will be introduced to key concepts and theoretical perspectives needed to understand the role of information (and information technologies) in environmental governance. In the second part of the seminar, through weekly readings, case studies, interactive discussions, group work and guest talks, students explore the following questions: What opportunities do information technologies present for addressing complex environmental problems? How do they empower governments, businesses and the society? What challenges and ethical issues must be considered to responsibly integrate and use them in environmental governance? Upon completing the course, students will be able to: • understand and discuss the role of information in environmental governance, • differentiate and apply key concepts and theoretical perspectives in the field, • distinguish leading and emerging info. technologies for environmental governance, • discuss and critically reflect upon their implications, • apply and transfer knowledge to other sectors (beyond the environment) where information technologies play a pivotal role.
Remarks	The implications of information technologies will be explored in diverse environmental governance domains, e.g. climate change, natural resources management, pollution control. Through concrete applications in specific environmental areas, students will get practical insights and enhance their understanding within a respective field of interest.
Examination	Reflective Essay (70%) due 15.07.2024 and Presentation (30%) date tbd.
Recommended Reading	Video: How to protect the environment with digital technology?, DW Shift, 2019 Kloppenburg, S. et al (2022). Scrutinizing environmental governance in a digital age: new ways of seeing, participating and intervening. In: One Earth. Cell Press Open Access. DOI: https://doi.org/10.1016/j.oneear.2022.02.004

4 Semester Long Courses

4.1 Study Area: Core

An Introduction to Science and Technology Studies			
Core		Semester	
Dr. Nicholas Buchanan (nicholas.buchanan@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	80	00LE62V-LAS-CO0017
Module(s) StuPo 2015		Module(s) StuPo 2020	
Science in Context		Science in Context	
Prerequisites	none		
Format, Dates, Times and Rooms	Lecture: Tue, 12-14h, AU HS 2 Workgroups WG 1: Fri, 8-10h, KG 1108 WG 2: Fri, 10-12h, KG 1231		
Course Description	Science and technology are defining characteristics of our world. But how is scientific knowledge made, how are technologies developed? What impacts do these have on our lives and the lives of others, and in what ways do human choices shape science and technology? This course explores science and technology not as bodies of knowledge or collections of artifacts, but rather as social practices and processes. In it, we will examine the inter-relationships among science, technology, and society in historical and contemporary contexts, with the aim of better understanding the embeddedness of scientific and technical activities within society. Because Science and Technology Studies (STS) is an eclectic and wide-ranging field of inquiry that resists clean theoretical summary, the course will not be organized as a tour of major canonical theories within science and technology studies. Instead, lectures will explore how STS can help provide a deeper understanding of all-too-easily taken-for-granted categories in public discourse, such as “science,” “technology,” “bodies,” “nature,” “experts,” and “disciplines.” Throughout our discussion, we will nonetheless highlight important schools of thought within STS as we draw on sources in the history of science and technology, the sociology of scientific knowledge, and the anthropology of science and technology.		
Remarks	Recommended for third year students.		
Examination	Group research project and oral presentation; two reflection papers (due 1.8.2024).		

Conscious Intercultural Communication			
Core		Semester	
Dr. Simone Krais (simone.krais@sli.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CO0045
Module(s) StuPo 2015		Module(s) StuPo 2020	
Responsibility and Leadership II		Responsibility and Leadership II	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Tue, 9-12h, Ph 4		
Course Description	Today, we live in a culturally and socially diverse world and every day we communicate with people from different backgrounds. This diversity is very enriching, but it can also challenge our social relations: Differing culturally and socially behaviour patterns, unconscious prejudice or simply differences in communications styles are often causes of misunderstandings or even conflicts. Thus, for joyful private and professional social relations we need an open-minded and anti-biased communication style that is built on profound knowledge and cultural self-awareness. Therefore, in this class, we will systematically improve our communication skills with the concepts of intercultural communication and anti-bias. The tools of intercultural communication help us to deal with different value orientations and behaviour patterns of national and sub-cultures. Anti-Bias makes us aware of our own prejudice, stereo-types and subconscious thinking. In interdisciplinary approaches we become sensi-tized for the influence of these categories on our life. Additional self-reflection se-quences we will analyze our way of thinking, for example our own “cultural glasses”. How does my own background influence my identity and my perception of others? And how does this influence my communication style and my social relations? Finally, in training sequences including role-plays, case analysis, the study of media, simula-tions and briefings we will practically apply our insights and deepen the awareness of our own communication structures.		
Examination	SL: Learning Diary and short in-class presentations PL: Written assignment of 2,500 words, due 19.07.2024		

Dealing with Numerical Information			
Core		Semester	
Dr. Sebastian Gehart (sebastian.gehart@ucf.uni-freiburg.de), Dr. Jörg Sahlmann (joerg.sahlmann@uniklinik-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 1 (-2)	6	80	00LE62VS-LAS-CO0005
Module(s) StuPo 2015		Module(s) StuPo 2020	
Dealing with Numerical Information		Dealing with Numerical Information	
Prerequisites	none		
Format, Dates, Times and Rooms	Lecture Mon, 9-11h, AU HS 1 Workgroups WG 1: Wed, 12-14h, AU 01.036a WG 2: Wed, 12-14h, AU 01.065 WG 3: Wed, 14-16h, AU 01.036a WG 4: Wed, 14-16h, AU 01.065 Tutorials WG 1: Fri, 8-10h, AU 01.036a WG 2: Fri, 8-10h, AU 01.065 WG 3: Fri, 10-12h, AU 01.036a WG 4: Fri, 10-12h, AU 01.065		
Course Description	The course introduces students to working with numerical data in a scientific and non-scientific context. Students procure basic theoretical and practical knowledge of probability theory, descriptive and inferential statistics, and learn about collecting and visualizing data. Basic theoretical knowledge of probability theory and descriptive and inferential statistics are presented during lectures and practiced in exercise tutorials. The acquired knowledge is then placed in context, discussed and applied in workgroups and software tutorials using the R software for statistical computing and graphics.		
Remarks	The lecture and the workgroups are setup as two courses in HISinOne. Please register for the workgroup only.		
Examination	Group presentation of a quantitative survey and analysis (30%). Final written exam (70%) on 15.07.2024.		

Introduction to the Philosophy of Science			
Core		Semester	
Prof. Dr. Frieder Vogelmann (frieder.vogelmann@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-3	6	80	00LE62V-LAS-CO006
Module(s) StuPo 2015		Module(s) StuPo 2020	
Theory of Science		Theory of Science	

Prerequisites	none
Format, Dates, Times and Rooms	Lecture Tue, 12-14h, AU HS 1 Workgroups WG 1: Thu, 16-18h, AU 01.065 WG 2: Thu, 16-18h, AU 01.036a WG 3: Thu, 18-20h, AU 01.065 G 4: Thu, 18-20h, AU 01.036a
Course Description	The lecture introduces students to the philosophy of science by looking at the most important problems and debates: What are sciences, and how are they related to philosophy? How do scientific explanations work? Are there laws of nature? What roles do objectivity, rationality and other values play in scientific practices? And does science discover what is real? The lecture is organised around five topics: (1) *Sciences, Philosophy and History*: What are sciences, how are they related to philosophy and what role does history play? (2) *Explanations, Interventions and Experiments*: How do scientific explanations work? How do scientific practices represent and intervene in whatever they study? What are experiments and why are they so central? (3) *Objects, Values and Laws*: What are the components of scientific theories and practices? Are there natural laws? Must sciences strive for the ideal of freedom from any moral or political values? (4) *Realism, Anti-Realism and Relativism*: Do scientific practices discover what is real? Is there progress towards truth? How should we understand objectivity? (5) *Sciences in Society*: What role does scientific knowledge play in democratic politics? What role should it play? How are sciences instituted?
Remarks	Recommended for second year students!
Examination	Graded Examination I (20%): Students must give a short (10min) presentation of one core text in the workgroups. Graded Examination II (80%): The final exam will be a written exam on 16.07.2024. The Re-sit date is 17.09.2024. Philosophy students can earn 3 ECTS by attending the lecture and writing a short essay (2-3 pages) at the end of the term (due by 19.07.2024).
Recommended Reading	Cartwright, Nancy (2022): *A Philosopher Looks at Science*. Cambridge: CUP. Okasha, Samir (2016): *Philosophy of Science. A Very Short Introduction*. 2nd ed. Oxford: Oxford University Press. Bortolotti, Lisa (2008): *An Introduction to the Philosophy of Science*. Cambridge: Polity. Oreskes, Naomi (2021): *Why Trust Science?* Princeton, N.J./Oxford: Princeton University Press. Rosenberg, Alexander and Lee McIntyre (2020): Phi*losophy of Science. A Contemporary Introduction*. 4th ed. New York/London: Routledge.

4.2 Study Area: Culture and History

Introduction to Culture and History			
Culture & History		Semester	
Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 1 (-2)	8	70	00LE62S-LAS-CH0001
Module(s) StuPo 2015		Module(s) StuPo 2020	
---		Introduction to Culture and History	

Prerequisites	none
Format, Dates, Times and Rooms	Lecture: Mon, 11-13h, AU HS 1 Workgroups: WG 1: Thu, 8-10h, AU 01.036a WG 2: Thu, 10-12h, AU 01.036a WG 3: Thu, 14-16h, AU 01.036a
Course Description	"Culture and History" is an interdisciplinary approach to the humanities, the disciplines which produce systematic knowledge about human beings and their artifacts and practices. In this introduction, we will approach the humanities as fundamentally interpretive sciences whose task is to describe, analyze, and interpret human-made things in the world. In the first part, we explore Literature, Art History, and Cultural Studies. Students practice the skills and methods that humanities scholars use to produce argument-based interpretations of typical objects of study: texts, images, and films. In the second part, we explore Anthropology and History. Students build on their analytical and interpretive skills while also adding another level of interpretation: evaluating other scholars' interpretations of cultures and histories. Along the way, we regularly pause to theorize our work, asking questions like "What is art?" or "What is culture?" by reading and discussing a classic theoretical work. By maintaining dialogue between the practice and the theory of the humanities, students practice producing compelling interpretations of culture and history. The course is designed to encourage both individual effort (preparation before class, assignments) and collaborative effort (discussion and teamwork during the lectures and WGs).
Remarks	Please register for the workgroup only.
Examination	18.07.2024

Postcolonial Literary Cultures: Encounters and Entanglement with English			
Culture & History		Semester	
Dr. Farha Noor (farhanoor3@gmail.com)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CH0068
Module(s) StuPo 2015		Module(s) StuPo 2020	
Art, Literature, Aesthetics, or Music Advanced Culture & History I, II, and III		Culture: Arts Culture & History I, II, and III	

Prerequisites	none
Format, Dates, Times and Rooms	Seminar Mon, 12-14h, AU 01.065 Thu,, 12-14h, KG I 1019
Course Description	This course addresses the complex histories of British colonisation and the role of English as a language of policy and governance as well as aesthetic expression, to explore the concept of 'literary cultures' from a critical and historical perspective. While postcolonialism as a mode of literary criticism is widely discussed, it is imperative to unpack the impact of colonialism on literary systems through a nuanced understanding of historical encounters, relations of entanglement, beyond the binary of the colonisers and the colonised. Focusing on three colonised cultures—Ireland, India and Australia—the course aims to help students address these nuances of history, and simultaneously connect the history of these English literatures to a present understanding of 'Global English Literatures'. Beyond the simplistic divide of the centre and the periphery, the course will address literary spheres like language policies and translation, print and book history, aesthetic, and genre adaptations, while enabling students to assess and analyse some significant texts from these literary cultures. Instead of focusing on the usually celebrated texts after the 'postcolonial' turn, the course aims to introduce students to contemporary writers as well as enable an understanding of the literary traditions they locate themselves in as they negotiate their representation on global markets. The goal is to not only encourage students towards postcolonialism as literary criticism, but also to facilitate a wider reading of literature, entangled in historical, colonial encounters, power struggles, and aesthetic traditions. The texts read in class will constitute a variety of genres like plays, poems, novels, and short stories, punctuated with a good understanding of significant theoretical debates by scholars like Gayatri Spivak, Aijaz Ahmed and Ngũgĩ Wa Thiong'o. Excerpts of long texts, theoretical texts, short stories, poems, and essays will be provided by the instructor. The students are expected to purchase (or borrow) their copies of the some primary texts.
Remarks	Students should purchase (or borrow) copies of the following primary texts: Translations (1980) by Brian Friel My Place (1987) by Sally Morgan Twilight in Delhi (1940) by Ahmed Ali Gun Island (2019) by Amitav Ghosh A Ghost in the Throat (2020) by Doireann Ní Ghríofa
Examination	22.07.2024

Reading: History, Theory, and Practice			
Culture & History		Semester	
Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CH0073
Module(s) StuPo 2015		Module(s) StuPo 2020	
Culture & History Since the Early Modern Period Advanced Culture & History I, II, and III		History: Modern or Contemporary Culture & History I, II, and III	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Tue, 10-12h, Ph HS 1 Thu, 10-12h, Ph HS 1		
Course Description	Perhaps no intellectual practice is as widespread and as taken for granted as reading. Reading is the first skill practiced in school and yet advanced scholars are always refining their capacity for academic, disciplinary, and critical reading. “Reading” is also a common metaphor across academic areas. In Biology, DNA sequences are “read” by enzymes and RNA. Computers “read” their storage drives. Scientists “read” instruments just as those instruments “read” the environment. Students in the UK “read” their subject area or discipline. And all academics pride themselves on their ability to “read between the lines” in their area of expertise. But what is reading, really? Is it reproducing sounds from written notations? Is it extracting meaning from media signals? Is it interpreting mysteries or decoding messages? Do we discover new things by reading or can we only ever read what we ourselves bring to the text? In this course, we will explore reading in three ways: 1) by historicizing it, 2) by theorizing it, and 3) by practicing it. We will read about the history of reading, trying to uncover the many ways that people have interacted with texts. We will theorize reading as an ensemble of media objects, practices, and ideas. And we will practice reading in a variety of ways: silently, publicly, in tandem, prophetically, etc.		
Examination	24.07.2024		

Theory of Culture			
Culture & History		Semester	
Dr. Melanie Altanian (melanie.altanian@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CH0011
Module(s) StuPo 2015		Module(s) StuPo 2020	
Culture as a Topic of Academic Inquiry		Theory of Culture	
Prerequisites	Introduction to Culture & History		
Format, Dates, Times and Rooms	Seminar Mon, 16-18h, Ph 1 Wed, 16-18h, Ph 1		
Course Description	Culture wars, pop culture, corporate culture, cultural appropriation – culture is central to human life, and references to it are ubiquitous, even though the concept is notoriously vague. Thus, it should come as no surprise that culture is also central to the academic study of human life. Disciplinary questions in the humanities often build upon how culture is understood, debated, and questioned. This course helps students to develop multiple understandings of the concept of culture through encounters with the texts, arguments, and perspectives that have shaped its study. Learning about those theoretical debates—e.g., those surrounding power, knowledge, identity, postcolonialism, gender, and their intertwinements—will help students to identify and apply concepts that they encounter in other courses and contexts.		
Examination	02.08.2024		

4.3 Study Area: Earth and Environmental Sciences / Environmental and Sustainability Sciences

Introduction to Environmental and Sustainability Sciences			
Environmental and Sustainability Sciences		Semester	
Dr. Malgorzata Cwikla (malgorzata.cwikla@ucf.uni-freiburg.de			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 1 (-2)	8	70	00LE62V/S-LAS-EE0001
Module(s) StuPo 2015		Module(s) StuPo 2020	
---		Introduction to Environmental and Sustainability Sciences	

Prerequisites	none
Format, Dates, Times and Rooms	Lecture 9-10h, AU HS 1 Workgroups: WG 1: Tue, 11-14h, AU 01.036a WG2: Wed, 9-12h, AU 01.036a WG3: Wed, 9-12h, Ph HS3
Course Description	The course engages you in a thoughtful, holistic exploration of fundamental questions concerning our environment. Furthermore, it underscores the collective commitment to sustainability as a shared objective for fostering favourable conditions on Earth for generations to come. Utilizing an interdisciplinary approach, the course provides a comprehensive overview of key concepts in environmental science. While lectures are focused on crucial theoretical background and latest discussions in relevant fields, in the practical sessions, you will delve into basic research tasks, gaining initial insights into the scientific methods used to analyses changes affecting the environment. The course extends its purview to scrutinize the human-induced climate crisis and the consequential impact of daily choices. This encompasses an examination of various aspects, including culinary preferences, mobility habits, and the use of streaming services as a cause of digital carbon footprint. The content is delivered from both natural and social science perspectives, ensuring a multilayered comprehension of the intricate interdependencies that shape our world and more-than-human dynamics. The profound understanding of environmental and sustainability topics equips you with the skills to critically assess green claims and to make impactful and responsible choices as well as to reflect the role of humans as one of many species inhabiting the same biosphere.
Remarks	Please register for the workgroup only.
Examination	Scientific poster due 10.06.2024 and policy advice paper due 24.07.

Environmental Chemistry			
ESS		Semester	
Dr. Christoph Howe (C.Howe@gmx.net)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-EE0010
Module(s) StuPo 2015		Module(s) StuPo 2020	
Chemistry		Environmental Chemistry	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, KG 1032 Wed, 10-12h, Werthmannstr. 4, HS 01.016		
Course Description	In this course, students will be firstly introduced to basic chemical concepts such as LEWIS structures and oxidation states to describe essential molecular compounds in the environment, their involvement and transformation in the biosphere. Further on, insights on acid/base theory, coordination chemistry and hardly soluble salts will provide the necessary fundament to describe environmental systems such as the atmosphere, water bodies and soil. Systematically, material cycles such as the carbon and nitrogen cycle will be described in depth as they play a major role in climate change, agriculture and waste water treatment. Additionally, students will be given the opportunity to work on projects on self-chosen pollutants to eventually forward technological solutions to cope with or mitigate the pollutants' negative effects on the environment. These projects will be graded in the format of reports. A final written exam on the given lecture topics will enclose the course while as a guideline for the written exam, exercises will be provided after each lecture. This course aims to create a rigid fundament to understand various biochemical and biophysical processes in the field of environmental chemistry.		
Examination	Exam on 10.07.2024 and report due 07.08.2024.		

Science and Practice of Sustainable Gardening			
Environmental and Sustainability Sciences		Semester	
Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	16	00LE62S-LAS-EE0033
Module(s) StuPo 2015		Module(s) StuPo 2020	
Methods of Observing Nature		Methods of Observing Nature	

Format, Dates, Times and Rooms	Seminar/Practical -read carefully the remarks section! Block III: Tue and Thu, 9-11:45h, outside in the garden Block IV: flexible times
Course Description	Have you ever wanted to experience what it means to “go sustainable” in the context of food supply? Are you interested in the scientific basis underlying different aspects of gardening? Do you want to grow your own organic fruit, herbs and vegetables? In this course we will view gardening through a scientific lens. Thereto, we will study the taxonomy, morphology, ecology and ecosystems of garden plants. What features do plants in this family share? Why should I grow potatoes in sunny spots and peas next to carrots? Equipped with scientific background and practical advice, we will explore together what it means to create our own sustainable garden. In a group with your peers, you will be provided with a small garden patch in which you are allowed to create and experiment with your own sustainable vegetable garden. Our main target is to achieve a high biodiversity and yield in our sustainable garden. We will investigate how different gardening practices influence the use of water and energy, and they affect the quality of the soil, biodiversity and yield. We want to avoid the use of artificial fertilizers, pesticides and chemicals. Upon successful completion of this course, you will be able to • Describe features and morphology of plants and identify important plant families. • Understand and describe the relationship between the features of plants and their use of water, nutrients and light to evaluate where they will grow best. • Understand and describe different forms of plant propagation. • Describe, understand and evaluate basics of different garden management technics. • Apply scientific knowledge of plant ecology and the ecosystem of a garden by creating your own sustainable garden plot. • Be able to identify, describe, analyze and evaluate your management technics and their relationship to the corresponding yield of your sustainable garden plot.
Remarks	This course has a high workload in Block III, since this is the time of the year to prepare a garden! The garden is about 6 km outside of Freiburg in Gundelfingen/Wildtal. You can get there by bike or public transport. For the 1st week of April you will get tasks (graded and ungraded) for self-study. To participate in this course, you need to be present from 11.04-20.07. We will meet in the garden on most Tuesdays and Thursdays from 11.04.-28.05. from 9-11:45h and on flexible times for maintenance (e.g. watering, pest prevention). The course uses blended learning to integrate theory into practice. From 04.06. onwards you will have to go to the garden on flexible times for maintenance and harvest. Sometimes you have to go several times a week dependent on the weather and on how you organize and share maintenance work with your peers. EES/ESS students have priority to participate in this course.
Examination	Plant portfolio (30%) due 09.04.! Report (70%) due 29.07. (early grading) or 06.09.
Recommended Reading	Jones, P. (2011). The science of gardening: the hows and whys of successful gardening. S.L.: Crowood Press.

4.4 Study Area: Governance

Introduction to Governance			
Governance		Semester	
Dr. Mila Mikalay (mikalay@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 1 (-2)	8	70	00LE62VS-LAS-GO0001
Module(s) StuPo 2015		Module(s) StuPo 2020	
---		Introduction to Governance	

Format, Dates, Times and Rooms	Lecture: Mon, 15-17h, AU HS 1 Tue, 15-17h, AU HS 1 Workgroups: WG 1: Thu, 12-14h, AU 01.036a WG 2: Fri, 10-12h, Ph HS 2 WG 3: Fri, 12-14h, Ph HS 2
Course Description	This course will acquaint you with central topics in the study of the processes through which human communities of different kinds govern themselves (governance), give you the appropriate vocabulary to discuss them, and prepare you to understand what ways of presentation, explanation and argumentation are accepted by governance scholars. In this course, the learning takes place in three formats: plenary sessions on the course readings, work in group on exercises and a small project, and workgroup sessions for discussion. The content of the course is organized around six major topics in governance: • Social contract: Why do you live in a state? When should you rebel against it? • Collective action: How do people behave in groups and why do big groups often fail to reach their goals? • Democracy: How does democracy work and why can we never have a perfect, full democracy? What are the types of democracy and which type is realized today? • Politics and administration: What is the role of professional state officials in a political system based on elections? • Agenda-setting: How and why do politicians and public act on are some issues while other important topics are neglected? Why do you feel more responsible and competent about climate change than about war in Europe? • Forecasting: How do you know about the future of society and economics? Can you predict it? Can you change it? Additional to these governance topics, you will learn analytical skills, such as interpreting the visuals, working with definitions, or understanding political humor. The work in small groups will let you apply these skills to the analysis and interpretation of governance topics.
Remarks	Students intending to take the Major Governance or courses from this Major must take this Introduction in their first year. Please register for the workgroup only.
Examination	Short written assignments during the semester, written examination - 08.07.2024.

Comparative Governments of the Global South			
Governance		Semester	
Dr. Hugo Fanton (hfanton@gmail.com)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-GO0078
Module(s) StuPo 2015		Module(s) StuPo 2020	
Political Science		Comparative Politics Advanced Governance I or II	
Prerequisites	Introduction to Governance		
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, AU 01.036a Wed, 10-12h, Ph 1		
Course Description	Political developments since the 2008 crisis have mobilized a broad academic debate on democracy and authoritarianism in the center and on the periphery of capitalism. In this course, we will discuss these themes while adopting a comparative perspective focusing on cases and concepts from the Global South (Latin America, Africa and Asia). We will discuss historical processes of shaping democracies and authoritarianisms on the periphery of capitalism, the legitimacy crisis in democracies the rise of authoritarianism rise and their relationship with neoliberalism. We will begin with a theoretical discussion on democracy, authoritarianism and the nation state, using such approaches as dependency theory. We will address the topic of transition, for instance, from military dictatorships to democracies, - a challenge specifically acute in Latin America. We will continue by discussing neoliberalism and democratic processes in the 1990-2000s. Approaching the contemporary debate, we will address such terms as populism, authoritarian populism, neo-fascism and different ways of conceptualizing far-right phenomena in the Global South. The course covers the main conceptual and methodological approaches to comparative politics, using databases and creating simple comparative studies. It addresses the composition and recruitment of elites, methods of governance (participation, communication, co-optation, repression), political regimes and how they evolve in terms of the separation and distribution of powers, systems of government, parties and political movements. The course will consist of lectures, group activities and responses to readings. Classes will be divided into different sections: (i) the lecturer will present the main concepts of that week; (ii) small groups formed to discuss the content and do case studies; iii) collective discussions between all; iv) guest lecturer/researcher seminars; and v) collective discussion of videos and other multimedia content.		
Remarks	Second-year Governance students have priority. Senior students do not have priority for the course registration!		
Examination	Short written assignments during the semester (1500 words in total | 25% of the final grade), a mid-term assignment (1500 words | 25%) and a final paper (5.000 words | 50%). Final paper deadline: 25.07.24		
Recommended Reading	International Research Group on Authoritarianism and Counter-Strategies (ed.). Global Authoritarianism: Perspectives and Contestations from the South. Transcript Verlag, Berlin (the digital version is open access).		

Governing Mobility: Policy-Making for Migration and Displacement			
Governance		Semester	
Dr. Franzisca Zanker (franzisca.zanker@abi.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-GO0089
Module(s) StuPo 2015		Module(s) StuPo 2020	
Political Science		Comparative Politics Advanced Governance I or II	

Prerequisites	Introduction to Governance
Format, Dates, Times and Rooms	Seminar Wed, 9-12h, HH9 01.018 26.06.24, Wed, 18-20 (tba), 08.07.24: Mon, 10-12h, KG 1132
Course Description	This course is a weekly readings-based seminar focusing on policy-making processes and procedures in one of the most pressing issues of our times: migration and displacement. Governments across the world consider how to respond to high numbers of migrants and refugees, try to balance humanitarian obligations and need for migrant labour with the security and economic concerns that portions of the wider public perceive as important. If you want to understand why South Africa built a new border fence, why Ethiopian domestic workers camped on the streets of Beirut in Lebanon, or what happened when Ecuador liberalized their visa policies for people from all over the world, this is the course for you. The course combines a political science perspective with other disciplines (sociology, anthropology) to analyze and compare policy-making and implementation involved in governing migration and displacement all over the world. Students will learn to understand and evaluate how political systems work to produce mobility policies, how international conventions and multi-level governance factor in and which agency migrants themselves have and use.
Remarks	Second-year Governance students have priority. Senior students do not have priority for the course registration! Note that one session takes place on Monday, 10-12 (08.07.2024) and a a guest lecture with Prof. Parvati Raghuram on 26.06.24, 18-20 is obligatory as well.
Examination	Pass/fail: active and regular course participation, presentation of country cases. Graded: 2-page summary and analysis of presentation (due 1 week after classroom presentation); 4-page country study of migration policy (due 30.05.), and 5-page policy brief (due 22.07.).
Recommended Reading	Adamson (2023) Re-spatialising migration governance: From 'multi-level' to 'entangled'. International Migration, 61, 3–14. https://doi.org/10.1111/imig.13138 Crawley, Garba, Nyamnjoh (2022). Migration and (In)Equality in the Global South: Intersections, Contestations and Possibilities: Editorial Introduction. Zanj: The Journal of Critical Global South Studies, 5 (1/2), 1–13. https://www.jstor.org/stable/48676301

International Relations and Institutions			
Governance only!		Semester	
Dr. Mila Mikalay (mikalay@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	8	20	00LE62S-LAS-GO0034
Module(s) StuPo 2015		Module(s) StuPo 2020	
Global Governance		International Relations	

Prerequisites	Introduction to Governance
Format, Dates, Times and Rooms	Seminar Tue, 9-12h, Ph HS 3 Thu, 9-12h, HH9 01.020C
Course Description	This course focuses on different conceptual approaches to the understanding and analysis of international relations (IR) and institutions. We focus on the level of theory and compare powerful “mythology” behind six IR theories: realism, idealism, constructivism, gender perspective, environmentalism, and globalization. The focus is therefore not on the “facts” of the international relations, but on the different ideological foundations of IR theories, seen as worldviews. The course is based on the textbook by Cynthia Weber “International Relations Theory. A Critical Introduction” and uses the method of artistic illustration to grasp the powerful beliefs about man, nature, society, politics, and the relationships between them undergirding IR theories. For each theory considered in the course we will watch a popular movie, which illustrates these fundamental beliefs behind theories. The course will therefore require analytic rigor, but also creativity and intellectual flexibility. The “movie seminar” is organized around watching (a selection of) movies and discussion of the main week's theory. The following session then hosts a discussion and debate presentations on advanced readings, deepening the understanding of the theory. Learning goals: • understand the post-positivist approach to social theory, namely, international relations theory; • understand and learn how to compare major IR theories and classical authors in their interpretation of international politics and institutions; • develop the analytical skills to be able to read, summarize, synthesize and debate academic texts on international relations, global politics and institutions; • connect theory, concepts, working methods and ideas from different Governance courses to achieve a deeper and more varied understanding of the course material, in a personally meaningful way; • move towards a reflective individual position on international issues and the role of international institutions.
Remarks	Second-year students taking this course for the module International Relations will have priority and are strongly recommended to take this course; no priority for senior students!
Examination	To complete the pass/fail requirements (Studienleistung) in this course you need to attend class, actively participate in the discussion, which is key component of this course. Presentation and written assignments. Submission deadline: 22.07.24
Recommended Reading	Robert G. Blanton (2013). “Zombies and International Relations: A Simple Guide for Bringing the Undead into Your Classroom”, International Studies Perspectives 14(1): 1-13, https://doi.org/10.1111/j.1528-3585.2012.00505.x The course is based on the textbook by Cynthia Weber “International Relations Theory. A Critical Introduction”. It is best to get a copy for yourself.

Law, State, Society			
Governance		Semester	
Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	8	20	00LE62S-LAS-GO0033
Module(s) StuPo 2015		Module(s) StuPo 2020	
Law		Law	
Prerequisites	Introduction to Governance		
Format, Dates, Times and Rooms	Seminar Mon, 16-18h, KG 1021 Wed, 16-18h, KG 1132		
Course Description	The Law, State, Society course looks at the most fundamental legal concepts related to how society, the state and law interact. The course examines the relationship between law, society, governance and politics domestically, regionally and internationally. In this manner, an overview of legal principles that are applicable across domestic and international legal orders is achieved. The course commences with an examination of foundational legal techniques and theory of law by analyzing legal principles influenced by different theories such as natural law, legal realism, legal positivism, utilitarianism, feminism, cultural relativism, and other. The practical aspect of how law regulates societies and the state are examined in details. Additionally, current topics, relevant for the constitutional framework of states and the methods of legal interpretations, applied by domestic, regional and international judiciaries, are analyzed in terms of their effect on society and individuals. The course also examines the authority of the state to regulate society and individuals and how different societal actors find networks or alliances across borders in order to affect the development of legal doctrines. Exercises in the course will include how law, society and the state function in reality by comparing diverse forms of law and governance, systems of law, law making and legality. Topics such as non-discrimination, equality, the rule of law, equity will be analyzed in light of their influence on how the state and society develop and function. The emphasis is on how law interacts with contemporary public policy issues as a regulatory or value-based mechanism, and the impact of law on decision-making at different levels of governance as well as how societies and state affect the creation and development of the law. Upon successful completion of this course, you will be able to: • paraphrase, summarize, compare and produce academic texts on the topics of the module with appropriate use of legal terminology; • analyze and interpret main principles of law and jurisprudential approaches in legal orders; • improve awareness about contemporary issues, debates, and controversies in legal studies; • become aware of theoretical and practical problems in understanding the law and its main principles and improve interdisciplinary thinking with integrity about their position as a scholar of law.		
Remarks	This course cannot be taken in parallel to or after completion of the “Principles of Law” course / Law module.		
Examination	Submission of the final part of the examined material or the final exam will take place in the week of 15-19.07.24.		

Perspectives, Practices and Critique of Global Economy of "Development"			
Governance		Semester	
Dr. Alke Jenss (alke.jenss@abi.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-GO0069
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Governance III		Economics, Specialization Option Governance, Research in an Area of Governance	
Prerequisites	Introduction to Governance, for senior modules additional requirements apply		
Format, Dates, Times and Rooms	Seminar Wed, 12-14h, Ph HS 2 Thu, 12-14h, Ph HS 2		
Course Description	Thousands of containers and ships moving every day from port to port show us how close-knit our global economy really is. Yet, some places seem to be more connected and 'global' than others; some benefit from the connections, and some don't. What role do unequal connections in global economy play in 'development'? How can we understand the relations between a particular context and global economic relations? What do droughts, sea level rise and wildfires have to do with 'development'? Which institutions and agents drive particular practices and policies? What are critiques of conventional understandings of development and how have these changed the term? When are good intentions and visions of "modernization" harmful? What are the colonial legacies of development discourses? This course will start with a more 'empirical' part where we trace concrete impacts of 'development' practices at the local, national, and trans-national levels and connect them to global power relations. In this part, we will discuss the logics of world economy by focusing on emblematic symbols of the global economy, such as cotton plantations (often seen as development engines), the container and ship (where gender relations materialize), or electronic energy waste dumps (where linear development thinking ends). We will also discuss the ways in which 'development' is measured. The course will continue with a conceptual discussion building on the empirical insights and revealing the changing ideas behind the practices. Students will work and prepare discussions in guided group work each week, delving deeper into the debates and theories and linking them back to diverse geographic contexts, depending on student's own regional expertise and interest. Having completed the course, students will: • have clear knowledge of different theoretical approaches to and debates on development (i.e. modernization theory, dependency approaches, post-development); • have gained detailed insights into the relationship between development and global economy and social and economic development; • have an understanding of current research (concepts, theories, debates) on development and global economy; • critically analyze the growing transnational flows, the expansion of the global market economy, and the relationship between local, national, and trans-national processes.		
Remarks	Second-year students may take this course for the Economics module. The lecturer will differentiate between modules in terms of expectations and examination requirements.		
Examination	Final assignment submission by 31.07.2024		

Principles of Law			
Governance only, not open for exchange students		Semester	
Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	8	20	00LE62VS-LAS-GO0004
Module(s) StuPo 2015		Module(s) StuPo 2020	
Law		Law	
Prerequisites	Introduction to Governance		
Format, Dates, Times and Rooms	Seminar Mon, 14-16h, KG 1134 Wed, 14-16h, KG 1228		
Course Description	The course introduces fundamental legal approaches and concepts. It looks at the interplay between law, society, governance and politics. It is not focused on narrow examination and analysis of domestic legal systems, but aims to provide an overview of legal principles that are applicable nationally and internationally. The course introduces most prominent theoretical and jurisprudential approaches: Natural Law, Legal Positivism, Feminism and modern Critical Theories. Students will critically reflect on the logic, structure, applicability, and language of law and topics such as rights, obligations, responsibility, and immunities. In the second part of the course, the focus is on the institutions and principles of law such as non-discrimination, the rule of law, equality, reasonable expectations, legal certainty, and legal interpretation techniques common among various legal orders. Finally, we will discover the practical applicability of the legal principles and theory in reality by examining the relationship between law and policy-making in the realms of human rights law, civil law, and criminal law, and by comparing diverse forms of law, systems of law, legality, and legal orders. The course readings include various legal cases dealing with freedom of expression, freedom of political association, the right to life, the prohibition of torture, marriage equality and nondiscrimination, criminal liability, data privacy, among others. Upon successful completion of this course, you will be able to: • paraphrase, summarize, compare and produce academic texts on the topics of the module with appropriate use of legal terminology; • analyze and interpret main principles of law and jurisprudential approaches in legal orders; • improve awareness about contemporary issues, debates, and controversies in legal studies; • become aware of theoretical and practical problems in understanding the law and its main principles and improve interdisciplinary thinking with integrity about their position as a scholar of law.		
Remarks	Priority to second-year students! This course cannot be taken in parallel to or after completion of the “Law, State, Society” course / Law module.		
Examination	Submission of the final part of the examined material or the final exam will take place in the week of 15-19.07.24		
Recommended Reading	Introductory reading on jurisprudence: Raymond Wacks, Understanding Jurisprudence (4th ed, OUP 2016).		

Studying Conflicts: Historic and Interpretive Research			
Governance, Culture and History		Semester	
Dr. Eric Heine (Eric.Heine@alumni.eui.eu)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	18	00LE62S-LAS-CHGO0015
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Governance III Culture & History Specialization Option I or II		Research in an Area of Governance Senior Profile Governance or C&H Specialization Option Culture & History I or II	

Prerequisites	For senior modules, prerequisites apply
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, Ph HS 2 Wed, 10-12h, VF 00.003
Course Description	The study of violent conflicts, civil wars, and wars of aggression have long been the purview of historians and political scientists. This course is designed for students whose research interests or intellectual curiosity incline them toward a non-naturalistic, that is, interpretive political science. The purpose is to enable students to present interpretive research findings to a general audience of political scientists with a sense of intellectual confidence. The course offers a methodologically pluralist introduction to interpretive and historical methods in the field of conflict studies. Debates in class and group projects will include systematic and critical discussion of the work of important scholars covering a wide range of disciplinary as well as theoretical backgrounds such as hermeneutics, discourse analysis, historical ethnography and reflexive historical analysis. This course will enable you to: • situate your interest in and approach to interpretive and historical methods in the field of conflict studies. • articulate and justify key methodological assumptions of your own approach to interpretation and the past. • undertake interpretive and historical research with greater clarity and confidence as to what you are, and should, be doing. Upon successful completion of the module, students should be able to: • identify and compare the main theoretical and methodological approaches used in the field of interpretive and historical social research. • apply a theoretical and methodological approach in an individual or group project. • produce a research paper corresponding to disciplinary standards including the justification and evaluation of the applied theoretical and methodological approach. • increase the ability to integrate knowledge from different contexts. • develop academic integrity and apply ethical guidelines in carrying out research.
Remarks	Students taking the course for the Governance research module will have priority.
Examination	In-class presentation and discussion of your research proposal (20%); a research design focusing on a particular method that will provide the basis for your research paper (80%) to be submitted by 11.08.2024.
Recommended Reading	Carolyn Nordstrom (ed.) (2009) *Fieldwork Under Fire. Contemporary Studies of Violence and Survival*. Berkeley: University of California Press. Dvora Yanow and Peregrine Schwartz-Shea (ed.) (2015) *Interpretation and Method. Empirical Research Methods and the Interpretive Turn*, second edition. New York and London: Routledge.

4.5 Study Area: Life Sciences

Introduction to Life Sciences			
Life Sciences		Semester	
Dr. Simon Büchner (buechner@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 1 (-2)	8	70	00LE62VS-LAS-LS0001
Module(s) StuPo 2015		Module(s) StuPo 2020	
---		Introduction to Life Sciences	

Prerequisites	none
Format, Dates, Times and Rooms	Q&A and Discussion Mon, 14-15h, AU HS 1 (!! first meeting, mid-term exam, and final exam: 13-15h) Workgroups WG1: Thu, 8-10h, AU 01.065 WG2: Thu, 10-12h, AU 01.065 WG3: Thu, 10-12h, Ph HS 2 WG4: Thu, 14-16h, AU 01.065
Course Description	In this course, students will learn about basic concepts in the Life Sciences. In particular, the course will focus on the systems that are used to describe physiological and psychological process in humans and which allow humans to interact with a complex environment. This includes the structure and functioning of cells, the endocrine system, the immune system, the nervous system, and perception and cognition. Besides the structures and processes that make up these systems, students will learn about selected research methods from the Life Sciences. The course is an introduction to the major and thus covers a broad range of fields. It is designed to provide an overview of topics and problems related to the field of Life Sciences. It emphasizes breadth over depth. In Work Groups, students will research, present and discuss challenges from the fields of Cell Biology, Physiology, Neurobiology and Psychology. We will employ the problem-based learning (PBL) method to encounter different challenges from the Life Sciences. In class, students work on problems or cases from the Life Sciences. In the pre-discussion the group discusses the problem; students share their knowledge they already have with respect to the topic in question and agree on what they still need to find out in order to assess the problem. In the post-discussion during the next meeting students bring together what they have researched and discuss the problem again in the context of the knowledge they have collected. More information on PBL will be provided during the first work group meeting.
Remarks	First lecture meeting on Monday, 15.04. takes place in-class 13-15h c.t. The following lectures are delivered as recorded screen casts. "Q&A and Discussion" on Mondays is an optional in-class meeting open to all class participants. Mid-term and final exam take place in class 13-15h c.t. Work Group meetings on Thursday are compulsory and in-class. Please register for the workgroup only.
Examination	Mid-term exam on 03.06. (35%), final exam on 15.07. (35%), and final report (30%) due on 04.08.

Cell Biology			
Life Sciences		Semester	
Dr. Christoph Howe (C.Howe@gmx.net)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-LS0004
Module(s) StuPo 2015		Module(s) StuPo 2020	
Cell Biology		Cell Biology	
Prerequisites	required: Introduction to Life Sciences		
Format, Dates, Times and Rooms	Seminar Tue, 10-12h, HH 9, 00.003C Thu, 10-12h, KG 1132 Tue, June 18, 9-13 Co-creation room The, June 20, 9-13 Co-creation room		
Course Description	This course provides a basic understanding of the structure and the molecular functions of the different components within human cells. Lectures will provide knowledge on the following questions on a molecular level: Of which essential biobricks are our cells made of, how do we digest our food and what does oxygen have to do with all of this? Moreover, basic knowledge about the compartments of our immune system will be gained and how a variety of viruses infect our cells. Another focus is cell-cell communication, in specific, how do neurons transmit signals within our body, and how does this eventually lead to eye vision? Classes also include a practical introduction to microscopy and theoretically expands on other microscopical methods. Additionally, each student is given the opportunity to actively work on a self-chosen topic and present it in class. As a guideline for the written exam preparation, several exercise questions are entailed to each lecture. Upon completion of this course, students will have gained a basic understanding of molecular mechanisms within eukaryotes to confidently navigate in the field of cellular biology.		
Examination	Midterm exam (60min) on May 28 (50% of final grade) and final exam (60min) on 11.07.2024 (50%) and an ungraded presentation during the class.		

Introduction to Immunology			
Life Sciences		Semester	
JunProf. Priscilla Briquez (priscilla.briquez@uniklinik-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-LS0036
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Life Sciences I, II or III		Advanced Life Sciences I, II or III	
Prerequisites	required: Introduction to Life Sciences		
Format, Dates, Times and Rooms	Seminar Tue, 10-12h, KG 1019 Thu 10-12h, KG 1140		
Course Description	In this class, students will start to discover how the human immune system functions in health and disease. We will discuss the different immune components, their development and functions, including the various immune cell types and the immune complement system. We will explore how the immune system can discriminate between the self and the non-self to initiate immune reactions, and will describe some of the key mechanisms involved in the regulation of immune surveillance, activation, suppression and tolerance. We will additionally provide an overview of the innate and adaptive immune responses upon infection by pathogens, in wounding, allergies, cancer, transplantation, auto-immune diseases and immunodeficiencies. These examples aim at illustrating the complexity of immune responses while providing general knowledge in these topics. Importantly, these selected topics will highlight important current health challenges and ongoing research strategies to address them. In addition to ex-cathedra lectures, the students will meet a few researchers in immunology seminars and discuss scientific papers, to sharpen their critical scientific thinking. At the end of the course, the students will present a project (1-3 students/group) proposing a strategy or a technology that modulate the immune system, as a potential therapy to a particular current health challenge of their choice.		
Examination	Project presentation (60%) during the class and formal written exam (40%) on 18.07.2024.		

Neuroscience: From Brain to Behaviour			
Life Sciences		Semester	
Dr. Wilf Gardner (w.gardner@tuta.io)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-LS0037
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Life Sciences I, II or III Specialization Option I or II		Advanced Life Sciences I, II or III Specialization Option I or II	
Prerequisites	required: Introduction to Life Sciences recommended: Anatomy and Functions of the Brain		
Format, Dates, Times and Rooms	Seminar Mon, 14-16h, KG 1236 Wed, 14-16h, KG 1236		
Course Description	The brain is one of the most complex, interesting and poorly understood objects in the universe; and perhaps the only one capable of considering itself. Little more than a kilogram of grey and white matter, the brain contains an estimated 86 billion interconnected neuronal cells and a similar number of non-neuronal cells, along with the everything that makes up an individual: their sensation and perception of the external world; their thoughts, motivations and emotions which guide the response to that perception; and the planning and execution of that response. Although references to the brain date as far back as 1600BC, and advances in technology now allow us to collect a previously unimaginable quantity of data, we still face an enormous challenge in truly understanding the nervous system and its functions. This course will introduce what we do know: from the cellular and molecular basis of neuronal transmission, via sensory input and motor output, to complex functions of the brain and big questions such as emotion, consciousness, and thought. From the level of individual neurons upwards, students will develop an understanding of how the form and function of the nervous system provides the biological basis of the phenomena which make us human. Students will familiarize themselves with the techniques of modern neuroscience which have brought us to our current level of understanding, and be encouraged to think about the many challenges which remain - and how we can solve them. The course will provide students with a foundation in the fundamentals of modern neuroscience. While rooted in biology, the course will encompass elements of varied disciplines such as psychology and philosophy, to provide students with a perspective of how neuroscience relates to the wider world. The course aims to equip students with a broad knowledge base and skills for further study, research projects or progression into related areas such as science communication. Classes will be in a blended format consisting of online lectures, exercises for guided individual research and in-presence seminars. The syllabus will cover neuroscience research methods, cellular and molecular neuroscience, anatomy, sensory and motor systems, and complex brain phenomena such as sleep, memory, motivation and emotion.		
Examination	Presentation (20%), exercise sheets throughout the semester (20%). Written examination (essay, max. 3000 words) due on 05.08.2024 (60%).		
Recommended Reading	Purves, Dale (2017) Neuroscience (6th Edition). Fith edition is available at the UB: TX 2020/566		

Sensation and Perception			
Life Sciences		Semester	
Dr. Simon J. Büchner (buechner@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-LS0015
Module(s) StuPo 2015		Module(s) StuPo 2020	
Advanced Life Sciences I, II or III		Advanced Life Sciences I, II or III	

Prerequisites	Introduction to Life Sciences
Format, Dates, Times and Rooms	Seminar Tue, 16-18h, Ph 2 Thu, 16-18h, Ph 2 Co-Creation Room on: June 27 and July 9
Course Description	Our sensory organs are transition points between the world of our inner experiences and the world we are part of. This dualistic interpretation of an inside and an outside world often goes along with the assumption that sensation is a linear projection of characteristics of an externally existing object to an internally existing state of perception. In contrast, we will approach sensation and perception as a combination of bottom-up and top-down processes which shape sensory information based on contextual knowledge and memory giving rise to an empirically grounded, dynamic percept. We will trace the path from external stimuli through the sense organs to the interpretation of these stimuli as the world how we perceive it. For this, we will encounter the human senses from cognitive, neurological, psycho-physical, but also philosophical points of view comparing different theories from these fields. We will cover visual, auditive, olfactory, gustatory, and tactile perception with an emphasis on the visual and auditive modality. The course will be a combination of lecture parts, reading-based discussions, student presentations, and in-class activities.
Remarks	Thu, 27.06., 16-18h and Tue, 09.07., 16-18h in AU Co-Creation Room.
Examination	Presentation (30%) during the class and a final essay (70%) due on 04.08.2024.
Recommended Reading	Wolfe, Jeremy (2015) Sensation & Perception. Available in the UB: FX 2017/68 and in the reading room: NT/Wol/2

Software Development for Medical Applications			
Life Sciences		Semester	
Dr.-Ing. Ilias Sachpazidis (ilias.sachpazidis@uniklinik-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	15	00LE62S-LAS-LS0040
Module(s) StuPo 2015		Module(s) StuPo 2020	
Computer Science, Data Processing and Modeling in the Sciences Methods		Methods I or II (quantitative)	

Prerequisites	required: some experience in programming (e.g. Introduction to Python)
Format, Dates, Times and Rooms	Seminar Wed, 16-18h, KG 1236 Fri, 16-18h, KG I 1231
Course Description	The primary objective of this course is to focus on the design of software applications required to address complex medical problems effectively. The course aims at providing students with a comprehensive understanding of software design principles, methodologies, and best practices that are specifically tailored to meet the demands of medical applications. Through a combination of theoretical lessons, practical projects, and case studies, students will gain hands-on experience in developing robust and scalable software applications focusing on the radiation oncology ecosystem. Working language is CSharp (C#) .NET. After an introduction to C#.NET, students will get familiarized with best practices of coding and will later have the opportunity to explore computational methods in radiation oncology. By the end of this course, participants will not only possess theoretical knowledge but will also have the practical skills to contribute effectively to the field of software development in the context of medical applications. Needed software (to be installed in advance): • Visual Studio Community: https://visualstudio.microsoft.com/vs/community/ Version 2019 is preferable: https://visualstudio.microsoft.com/vs/older-downloads/ Visual Studio can be run on MS Windows as well as on MacOS. • ReShaper: https://www.jetbrains.com/resharper/ • NET Framework 4.7.2 Developer Pack: https://dotnet.microsoft.com/en-us/download/dotnet-framework/net472 • GitKraken: https://www.gitkraken.com/ (or any other git client) • GitLab account: https://about.gitlab.com/ Note: All applications/software are available in their full versions for students. You simply need to register as a student to access them.
Remarks	Students will need to use their own computer (not tablet) or make use of the computers in the IT department (Rechenzentrum).
Examination	Project report, due date on 26.08.2024
Recommended Reading	Dustin Boswell: The Art of Readable Code: Simple and Practical Techniques for Writing Better Code. Gary McLean Hall: Adaptive Code: Agile coding with design patterns and SOLID principles. Vahid Farahmandian: .NET 7 Design Patterns In-Depth: Enhance code efficiency and maintainability with .NET Design Patterns. Michael C. Joiner and Albert J. van der Kogel (eds.): Basic Clinical Radiobiology.

4.6 Study Area: Multiple

Advanced Mathematics			
ESS, LS		Semester	
Benoit Louvel (benoit.louvel@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-LSEE0013
Module(s) StuPo 2015		Module(s) StuPo 2020	
EES: Analytical Methods LS: Methods		Methods I or II (ESS and LS)	
Prerequisites			
Format, Dates, Times and Rooms	Seminar Mon, 8-10h, AU 01.036a Wed, 8-10h, KG 1108		
Course Description	The first and main part of this course concentrates on modeling in sciences. We will for instance look at models that aim to understand and predict some thermal energy-related phenomena. Thereto, you will explore some basics in thermodynamics with a specific focus on the concept of efficiency. This is especially relevant to understand all forms of energy conversion such as the conversion of solar and biochemical energy into electricity. We will furthermore investigate and deepen scientific modeling with examples from the neurosciences. After the exploration of scientific modeling we will learn essential tools to create models which include approximations of functions, simple differential equations, and principles in electricity and classical mechanics. The second and minor part of this course expands on cryptography, building upon themes introduced in the basic course on Maths and Physics. Additionally, we will study the concept of proof illustrated through examples and paradoxes to deepen our understanding of mathematical reasoning. This course builds upon some groundwork laid in the basic course Maths and Physics.		
Examination	Exam (pass/fail) 26.06.2024, report (graded) 31.07.2024		

Advanced Topics in STS			
Electives		Semester	
Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	3	20	00LE62S-LAS-IN0011
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Elective Joker	
Prerequisites	Introduction to STS		
Format, Dates, Times and Rooms	Seminar Fri, 10-12h, KG 1227		
Course Description	This course discusses science and academia from an STS perspective and encourages students to reflect upon the experiences they have made at universities in the course of their studies. It does so by drawing on some classical STS literature which will be read and discussed.		
Examination	Final paper, 10 pages max., due 30.08.2024		
Recommended Reading	Bruno Latour: Science in Action		

Consciousness, the Psycho-Physical Problem and Exceptional Experiences			
Life Sciences, Culture and History		Semester	
Dr. des. Wolfgang Fach (fach@igpp.de) and colleagues.			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	20	00LE62S-LAS-CHLS0002
Module(s) StuPo 2015		Module(s) StuPo 2020	
Specialization Option LS I or II Advanced Culture & History I, II, or III		Specialization Option LS I or II Philosophy Culture & History I, II, or III	

Prerequisites	required: Introduction to Life Sciences or Introduction to Culture and History
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, KG 1231 only 17.4.: Wed, 10-12h, BT R204 Final conference: Fri, 12.7. 12-17h, Fri, 19.7. 12-17h, Mon, 22.7. 10-14h, AU Co-Creation
Course Description	To this day, we are not able to understand consciousness within a physicalist framework, which is referred to as the “psychophysical problem”. Despite all advances, neuroscience cannot explain how our subjective phenomenal experience (first-person perspective) can be generated by objective neurobiological processes (third-person perspective). In this course, we will shed light on the fundamental properties of consciousness and discuss what makes consciousness a “hard problem”. In terms of the relationship between mind and brain, we will explore concepts such as mental representation, self-organization and emergence and see where physical reductionism fails. We will take the psychophysical problem to the extreme by examining exceptional experiences (ExE) such as “extrasensory perceptions”, “mental healing”, “out-of-body experiences” or near-death experiences as extraordinary deviations from “ordinary” mind-brain correlations and conventional psychosomatics. Regardless of how one evaluates their ontological status, the study of ExE opens up perspectives that may lead to new insights into the mind-matter relationship. We will discuss recent scientific approaches into which exceptional phenomena can potentially be integrated. Enactivism, for example, attempts to overcome both physicalism and psychophysical dualism with the concept of embodiment. Even more far-reaching approaches, which are becoming increasingly important in the philosophy of mind, are the so-called dual-aspect theories. The course will consist of a combination of lectures, discussions, student presentations and essays, and in-class activities.
Examination	Presentation at the final conference (30%) and an essay due on Aug 31, 2024 (70%).
Recommended Reading	Nagel, Thomas (1974). What is it like to be a bat? Philosophical Review 83, No. 4: pp. 435-450. Download with UB-license oder: https://www.sas.upenn.edu/~cavitch/pdf-library/Nagel_Bat.pdf Chalmers, David (2003). Consciousness and its place in nature. In Stephen P. Stich & Ted A. Warfield (eds.), Blackwell Guide to the Philosophy of Mind. Blackwell: pp. 102--142. Download from: https://consc.net/papers/nature.pdf Atmanspacher, H. and Fach, W. (2013). A structural-phenomenological typology of mind-matter correlations. Journal of Analytical Psychology, 58: pp. 219-244. https://doi.org/10.1111/1468-5922.12005

Creating a Sustainable Organization			
ESS, Governance		Semester	
Christopher Wills (christopherallenwills@gmail.com)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-GOEE0018
Module(s) StuPo 2015		Module(s) StuPo 2020	
Human and the Environment Specialization Option EES I and II Specialization Option Governance I or II		Human and the Environment I and II Specialization Option ESS I and II Specialization Option Governance	

Prerequisites	For senior modules, prerequisites apply
Format, Dates, Times and Rooms	Seminar Tue, 16-20h, AU 01.065
Course Description	Should businesses be concerned with climate change? You probably think, yes they should! Indeed, many organizations are not only responsible on a large scale for climate change but they will also be affected negatively by a changing climate. Why is the transformation to more sustainable organizations so problematic then? In this course you will learn how to introduce sustainable development goals into institutions of any type, so that they create long term value for stakeholders. The ambition discussed will be based on the United Nations Sustainable Development Goals framework. By breaking down organizations into linked components, you will learn how to take action to protect economic, natural and social capital, overcome common barriers to change and to anchor success. The course concludes with each of you producing a blueprint to structure an organization of your choice to meet the demands of the circular economy. Thus, the primary aim of the course is that you will be able to structure and enact lasting changes in environmental, social and governance policy within any organization. After the completing the course you will be able to: • Understand the United Nations (UNFCCC) climate goals and how to embed and evaluate sustainability in an organization through governance and integrated reporting. • Analyze and link the constituent elements of organizations that describe how they function, using the concept of ´Business Models´. • Evaluate the United Nations 17 ´Sustainable Development Goals´ designed to address the threats to capital and identify appropriate goals for organizations. • Evaluate and apply established techniques for overcoming common barriers to change in organizations. • Apply the concepts of financial, natural and human/social capital to an organization of your choice and create and present a proposal to make an organization more sustainable
Remarks	ESS students will have priority
Examination	Discuss the use of economic, natural and social capital of your chosen organization and explain why the organization has obligations to stakeholders (30%) due 25.05.2024. Written business model proposal per student (70%) due 26.7.2024.

Decarbonizing for Peace? Critical Minerals and Renewable Energies from a Global Environmental Justice Perspective			
ESS, Governance		Semester	
Dr. Fabricio Rodriguez (fabricio.rodriguez@abi.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-GOEE0019
Module(s) StuPo 2015		Module(s) StuPo 2020	
Human and the Environment Specialization Option EES I or II Specialization Option Governance I or II		Human and the Environment I or II Specialization Option ESS I or II Specialization Option Governance	
Prerequisites	none. For senior modules, prerequisites apply		
Format, Dates, Times and Rooms	Seminar Mon, 16-18h, KG 1142 Wed, 16-18h, AU 01.036a		
Course Description	The global transition to decarbonize the economy is increasingly reliant on renewable energy infrastructures and digital technologies. However, the surge in demand for critical minerals essential for constructing these infrastructures raises concerns. This demand is unevenly distributed globally, leading to questions about renewable energy's link with peace, conflict and justice. This seminar delves into the ecological geopolitics of critical minerals, examining their role in the production of solar panels, windmills, submarine data cables, satellites, electricity transmission lines, and e-mobility batteries. Examples of such minerals include copper, rare earths, lithium, nickel, and cobalt, many of which are found in conflict-affected areas. The course adopts a historically informed perspective on critical minerals and renewable energy, aiming to comprehend the challenges and possibilities of achieving peaceful decarbonisation while drawing on global environmental justice literature. The teaching setting employs a research-oriented approach, encouraging a dialogic collaboration between the instructor and students.		
Remarks	ESS students will have priority		
Examination	15 min presentation and hand out (25% of grade) Individual term paper (75% of grade) 2,500-3000 words, due on 27.09. or 05.08.2024 (early deadline for students graduating in the summer).		

Global Public Health Inequalities: Evidence, Synthesis, Approaches			
Life Sciences, Governance		Semester	
Dr. Katie Brunner (katie.sworn@uniklinik-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	20	00LE62S-LAS-GOLS0030
Module(s) StuPo 2015		Module(s) StuPo 2020	
Specialization Option LS I or II Specialization Option Governance I or II		Specialization Option LS I or II Specialization Option Governance Senior Profile (LS or GOV)	

Prerequisites	For senior modules, prerequisites apply
Format, Dates, Times and Rooms	Seminar Tue, 9:30-12h, AU 01.065 Thu, 9:30-12h, HH9 01.020a
Course Description	Global public health issues are diverse, encompassing areas such as nutrition, access to health services, mental health or protection from communicable diseases, amongst others. Global public health bodies, such as the World Health Organization, produce evidence-based recommendations to help reduce health inequalities for vulnerable groups or those living in low-resource settings. Evidence on the design, costs and consequences of solutions to these issues is vital in producing policy recommendations and agendas. Often, such evidence comes from secondary research studies, synthetizing existing research findings. The course is structured around synthesis methods and skills, providing students with opportunities to learn how to evaluate and apply research skills in the area of public health: the design of synthesis studies, evidence identification, collection, analysis, critical interpretation of evidence and written and visual presentation of results. Students will learn how to write a comprehensive evidence synthesis on a public health topic, including the delimitation and clear presentation of the topic, performing a preliminary scoping search and findings, specifying the methodological approach and the search strategy, selecting data and choosing appropriate analysis techniques, proposing a critical assessment of the literature, and planning reporting and presenting findings. The lecturer has extensive experience in both the academic and the evaluation fields, bringing research and policy together in this course.
Remarks	Kick-off at the semester start (2 weeks), with most teaching happening in Block IV. Three sessions take place in PC Pool 1 (Werthmannstrasse): 28.05., 13.06., 27.06.
Examination	Analytical written assignments, final deadline tba.
Recommended Reading	La Placa, V., & Morgan, J. (Eds.). (2022). Social science perspectives on global public health. Taylor & Francis, https://doi.org/10.4324/9781003128373 Booth, A., Sutton, A., Clowes, M. & Martyn-St James, M. (2022). Systematic approaches to a successful literature review (3rd edition). SAGE.

Metaphern in den Wissenschaften			
Electives		Semester	
Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	20	00LE62S-LAS-IN0034
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Elective Joker Senior Profile C&H Specialization Option Culture & History I or II	
Prerequisites			
Format, Dates, Times and Rooms	Seminar Thu, 14-16h, KG 1023		
Course Description	Metaphern spielen in den Wissenschaften viele Rollen, auf allen möglichen Ebenen. Ohne Metaphern, so heißt es in der Literatur, wäre Erkenntnisfortschritt und dessen Vermittlung nicht möglich. In diesem Kurs lernen Studierende zunächst die Grundlagenliteratur für wissenschaftssoziologische Untersuchungen von "Sprachspielen" in den Wissenschaften kennen. In einem zweiten Schritt beschäftigen sie sich mit Metaphern in ausgewählten Disziplinen oder Forschungsfeldern. Der Kurs ist offen für Studierende der Interdisziplinären Anthropologie und findet auf Deutsch statt. Die zu lesende Literatur wird sowohl deutsch- als auch englischsprachig sein.		
Examination	Paper, 15 pages max., due 15.09.2024.		
Recommended Reading	Wuppuluri /Grayling (Eds.): Metaphors and analogies in the sciences and humanities. Springer: 2022.		

Vulnerability, Culture, and Ethnography			
Culture & History, ESS, Governance		Semester	
Dr. Ana Clara Alves de Oliveira (ana-clara.alves-de-oliveira@philosophie.uni-tuebingen.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	20	00LE62S-LAS-CHEEGO0004
Module(s) StuPo 2015		Module(s) StuPo 2020	
Sociocultural Anthropology or Area Studies Advanced Culture & History I, II, and III		Culture: Peoples and Practices Culture & History I, II, or III Methods II (ESS) Methods (Governance)	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Tue, 14-16h, AU 01.036a Thu, 14-16h, BT 107		
Course Description	New technologies, political crises, and migration processes are transforming societies and shaping different forms of social engagement. The pandemic crises made us see how vulnerability is a key aspect of human interaction, changing how we practiced daily habits such as eating, clothing, moving around the space, and connecting with others. Ethnography is a powerful method to understand these social scenarios on local and transnational scales. In this course, we will explore how vulnerability is influencing everyday life culture. The course is designed to be a dynamic experience, incorporating readings, ethnographic walks, and group discussions. We will read works on ethnography conducted in different countries and communities during social crises, and learn how to use these tools to analyze vulnerable social situations close to us. The course's objective is to introduce students to the ethnographic method, providing training for them to apply ethnography in their own projects and research. Additionally, the course aims to guide students toward a deeper understanding of what culture is and how it is shaped under vulnerable circumstances. The course will be useful for students in any academic field and does not require prior knowledge of anthropology or ethnographic methods.		
Remarks	Students taking the course for the Governance Module will need work on a topic related to governance (e.g., collective action and regulation).		
Examination	16.07.2024		

5 Courses of other Degree programs

5.1 Study Area: Wissenschaft, Technologie, Gesellschaft

The Bicycle			
WTG		Block III	
Dr. Nicholas Buchanan (nicholas.buchanan@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	3	20	00LE62S-WTG-002401
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Senior Profile Culture & History or ESS	
Prerequisites	For senior modules, prerequisites apply		
Format, Dates, Times and Rooms	Seminar Wed, 14-16h, KG 1108 Fri, 12-14h, KG 1134		
Course Description	This course is an homage to and intensive engagement with a ubiquitous and deceptively simple technology: the bicycle. It offers students the opportunity to explore the bicycle in an interdisciplinary fashion by looking at the historic and cultural symbolism of the bicycle, technological transformations of the bicycle over the past two centuries, academic and scientific works on bicycles, and the engineering involved in getting the wheels to turn and the rider to stay riding. In examining these points, we will also uncover how societies shape technologies and vice versa. Throughout this short course, we will be hosting a number of guest speakers; read, watch, and listen to bicycle-related content; and have a hands-on maintenance session for beginners. Several weekend excursions are planned. The course is a pass-fail SL only course. Participants do not need to own a bicycle or be able to ride a bike.		
Remarks	The course will meet on the following dates (Wednesday meetings are 14-16h, Fridays 12-14h or 12-16h): Wed, 10.4., Fri, 12.4., Wed, 24.4., Fri, 26.4., Wed, 8.5., Fri, 10.5., Wed, 15.5., plus 1-2 weekend excursions date tba. Course registration will be from 09.03. - 12.04.		
Examination	SL only: Attendance and in-class projects are required.		

Marx and Technology			
WTG		Semester	
Dr. Georg Spoo (nicholas.buchanan@ucf.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	3	20	00LE62S-WTG-002402
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Elective Joker Culture and History Senior Profile	
Prerequisites	none		
Format, Dates, Times and Rooms	Wed, 12-14h, KG 1140 (except: 24.04., 08.05., 15.05., 26.05., 17.07.) Tue, 30.04. and 14.05., 16-20h, R 01 014 (Wilhelmstraße 26)		
Course Description	Marx's theories date back to the 19th century and could therefore be dismissed as anachronistic, especially when analyzing current developments such as newly emerging technologies. However, with the rise of digital technologies, Marx's theories were frequently incorporated in the academic research investigating these technologies and their societal implementation. Therefore, Marx's theories appear to remain a suitable analytical tool. Some even argue that "Marx's machine thought holds true, perhaps truer than ever, as the 2020s approach." (Dyer-Witheford et al., 2019, 36). In this course, we will investigate whether this prediction has (already) come true. To do so, this course is divided into two parts. In the first theoretical part, which takes place in two block sessions, we will introduce Marx's labour theory of value and his machine theory. In particular, we will focus on the chapter "Machinery and Modern Industry" of Marx's main work, Capital, and on the "Fragment on Machines" within his work *Grundrisse*. With this knowledge, in the second part of this course, which is organized as a tutorial, we will study and evaluate current adaptations and implementations of Marx's theories on digital technologies, such as social media platforms, artificial intelligence or micro-work platforms.		
Remarx	Course registration will be from 09.03. - 12.04.		
Examination	The course is SL only (attendance required).		

5.2 Study Area: Culture and History

Propaganda, Privates und Protest: Fotografische Praktiken im Sozialismus			
Culture & History		Semester	
Dr. Michel Abesser (michel.abesser@geschichte.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	n.a.	06LE11Ü-20243
Module(s) StuPo 2015		Module(s) StuPo 2020	
Culture & History Since the Early Modern Period Advanced Culture & History I, II, and III		History: Modern or Contemporary Culture & History I, II, and III	
Prerequisites	none		
Format, Dates, Times and Rooms	Seminar Wed, 12-14h, KG 1034		
Course Description	Fotografien sind Quellen, die scheinbar schwer zum Sprechen gebracht werden können. In ihre historische Interpretation fließen Bildanalyse ebenso ein, wie die Biographie des Fotografen, ästhetische Konventionen der Gesellschaft, die Medien ihrer Verbreitung und die politischen Implikationen. Hinter den Funktionen der Fotografie verbergen sich zentrale historische Fragen nach Macht, Öffentlichkeit und Subversion. Sie spielte für die gesellschaftliche Mobilisierung in der Sowjetunion der 1920er Jahre durch die neue Bildsprache Aleksandr Rodčenkos eine wichtige Rolle, aber auch in der politischen Inszenierung der Macht sozialistischer Parteien, wo die Kontrolle über Fotografien und deren Manipulation zum Herrschaftsmittel wurden. Fotografien dienten der Dokumentation und Tradierung des sozialistischen Projekts und historischer Schlüsselereignisse wie dem Zweiten Weltkrieg, dessen Bildgedächtnis und instrumentalisierte Erinnerung sie begründeten. Ab den 1950er Jahren griffen immer mehr Bürger zum Fotoapparat und schufen ein bisher kaum ergründetes Reservoir an Bildern zum Tourismus und zum sozialistischen Alltag, dessen nicht inszenierte Abbildung auch die Staatsmacht herausfordern konnte. Das Foto blieb umstrittenes und subversives Medium, dass durch die Fotografien des Prager Frühlings durch Joseph Koudelka 1968 oder die inoffizielle Charkiver Fotoschule in der Ukraine sowjetische Herrschaft diskreditieren konnte. In der Übung werden wir uns über zeitgenössische Techniken der Fotographie verständigen und dann anhand von Fallbeispielen verschiedene methodische Zugänge zu Fotografien als historischer Quelle erarbeiten. Anhand diachroner Querschnitte und einzelner Beispiele werden die Entstehungsbedingungen, der Inhalt, aber auch die Distributionsmechanismen von Fotografien in den sozialistischen Staaten Osteuropas analysiert. Es gilt dann deren gesellschaftliche und politische Relevanz zu diskutieren und die Frage zu erörtern, in welchem Verhältnis sozialistische und nationale Bildkulturen standen.		
Examination	tba		
Recommended Reading	Jäger, Jens: Fotografie und Geschichte, Frankfurt a.M. 2009. King, David: The Commissar Vanishes. The Falsification of Photographs and Art in Stalin's Russia, New York 1997. Hofer, Sigrid (Hg.): Fotografieren in der DDR, Dresden 2014. James, Sarah E.: Common Ground. German Photographic Cultures across the Iron Curtain, New Haven, Conn. (u.a.) 2013.		

5.3 Study Area: Earth and Environmental Sciences / Environmental and Sustainability Sciences

Design and Monitoring of Large Infrastructures			
EES /ESS		Semester	
Prof. Dr. Alexander Reiterer, Prof. Dr.-Ing. Mark Alexander Stolz			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	n.a.	11LE68Ü-9020
Module(s) StuPo 2015		Module(s) StuPo 2020	
Specialization Option: EES I or II		Specialization Option: ESS I or II	
Prerequisites	Introduction to EES/ESS		
Format, Dates, Times and Rooms	Seminar Wed, 10-12h, G.-Köhler-Allee 101, SR 01-016/18		
Course Description	The growing world population, the ongoing urbanization, the ever-increasing size, height and complexity of large scale built infrastructure lead to higher risks with respect to natural and manmade threats. Therefore, smart designs and monitoring of large infrastructures are required. Within this context the lecture provides insights in the basic requirements for a safe, secure and resilient design of construction and monitoring of those large urban infrastructures. In detail students will learn about Key concepts and ideas to design and monitor a large urban infrastructure safe, secure and resilient Design concepts for sensor application and structural health monitoring Data analysis methods for interoperating and visualizing measurements Software aided assessment of infrastructures Smart and reinforced building elements, to measure the actual building condition combined with an increased bearing capacity and resistance.		
Remarks	This course is offered in cooperation with the Master of Sustainable Systems Engineering. Course and exam registration needs to be according to the regulations of the Technical Faculty. More information via email to sabine.sane@ucf.uni-freiburg.de. Course registration: date tba. Only advanced students can participate.		
Examination	Written supervised examination at the end of the semester covering both the content of the lecture (50%) and the content of the exercises (50%), duration: 90 min.		

Energy in Buildings			
EES/ESS		Semester	
Prof. Dr. Hans-Martin Henning, Dr. Manuel Lämmle, Beatrice Rodenbücher			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	3	n.a.	11LE68V/Ü-4112
Module(s) StuPo 2015		Module(s) StuPo 2020	
Elective Joker		Elective Joker	

Prerequisites	Introduction to EES/ESS, Solar Energy (!)
Format, Dates, Times and Rooms	Lecture Mon, 14-16h, G.-Köhler-Allee 101, SR 00-010/14
Course Description	The course will cover the following topics: Selected chapters of building physics regarding energy demand of buildings for heating and cooling Indoor comfort in buildings Ventilation demand and ventilation concepts The passive house concept Passive use of solar energy in buildings; physics of transparent building components Passive systems / concepts for cooling of buildings Exergetic evaluation of building systems Heat transfer systems to rooms for heating and cooling Efficient energy conversion chains, „low-ex“ systems Exercises are included into the lecture.
Remarks	This course is offered in cooperation with the Master of Sustainable Systems Engineering. Course and exam registration needs to be according to the regulations of the Technical Faculty. More information via email to sabine.sane@ucf.uni-freiburg.de. Course registration: date tba. Only advanced students can participate.
Examination	Written supervised exam, duration: 90 min.
Recommended Reading	Energy Performance of Buildings - Energy Efficiency and Built Environment in Temperate Climates. Editors: Boemi, Sofia-Natalia, Irulegi, Olatz, Santamouris, Mattheos (Eds.). Springer.

Photovoltaic Lab			
EES/ESS		Semester	
Prof. Dr. Stefan Glunz, Dr. Wolfram Maximilian Kwapil			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 3-4	6	max. 2	11LE68P-4108
Module(s) StuPo 2015		Module(s) StuPo 2020	
Specialization Option: EES I or II		Specialization Option: ESS I or II	

Prerequisites	Introduction to EES/ESS, Solar Energy
Format, Dates, Times and Rooms	Seminar Fri, 9-12h, R 01 007 (G.-Köhler-Allee 106)
Course Description	The Photovoltaic Laboratory provides an opportunity for hands-on experience with the PV-related topics introduced in the Solar Energy course. Students will get to know solar cells from a practical view and gain experience in interconnection and operation of solar cells, including evaluation of their performance. Students will understand the electrical properties of solar cells e.g. the IV-curve and related parameters; they will experience the influence of environmental conditions such as temperature, intensity of the incoming light and the angle of incidence. The examination of solar cells as a component part in electrical circuits will enable students to solve typical problems, e.g. how to connect a couple of single cells reasonably to build up a module or how to avoid problems caused by shading. Knowledge about the behaviour and performance on load when used as power source is very important for the application of solar cells. Off-Grid systems will also be investigated as a practical application scenario for photovoltaic. This will bring students in contact with electrical components such as load-regulators, storage etc. These are elementary topics for solid knowledge of solar cells and crucial for ongoing research of a more application-oriented use of solar cells. A broad variety of laboratory experiments will address the operating characteristics of solar cells and photovoltaic modules. Different experiments will be performed each week.
Remarks	This course is offered in cooperation with the Master of Sustainable Systems Engineering. Course and exam registration needs to be according to the regulations of the Technical Faculty. More information via email to sabine.sane@ucf.uni-freiburg.de. Course registration: date tba.. Only advanced students can participate.
Examination	Written protocols of performed laboratory experiments and an oral presentation of the experimental results within a poster conference. Approx. 10 min. presentation + 5 min. questions = 15 min in total. Students need to attend all laboratory sessions (100%) and to conduct the experiments. Important info for exchange students: the exam must be taken at official examination date.
Recommended Reading	A. Smets, Solar Energy, UIT Cambridge 2016 P. Würfel, Physik der Solarzelle, Spektrum - Akademischer Verlag 2000 A. Goetzberger, B. Voß und J. Knobloch, Sonnenenergie: Photovoltaik, Teubner 1997 M.A. Green, Solar Cells, University of New South Wales 1982 K. Mertens, Photovoltaik, Hanser 2011 J. Nelson, The physics of solar cells, Imperial College Press 2008

Resilienz und Kollaps ökologisch-ökonomischer Systeme			
EES/ESS		Semester	
Prof. Dr. Baumgärtner (stefan.baumgaertner@ere.uni-freiburg.de), Nora Felber, M.Sc. (nora.felber@ere.uni-freiburg.de)			
Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2-4	6	7 LAS	00LE62S-LAS-EE0014
Module(s) StuPo 2015		Module(s) StuPo 2020	
Specialization Option: EES I or II Human and the Environment		Specialization Option: ESS I or II Human and the Environment I or II	
Prerequisites	Introduction to EES/ESS		
Format, Dates, Times and Rooms	Seminar and individual self-study Thu, 18.4. and 25.4., 16-20h, R 211 (Herder-Gebäude) Tue, 14.05. and 11.06, 14-16h, R 211 (Herder-Gebäude) Thu, 18.07. 14h to Sat, 20.07., 13h, R 211 (Herder-Gebäude)		
Course Description	Resilienz bezeichnet die Fähigkeit eines Systems, seine wesentlichen Strukturen und Funktionen auch unter Störungen und Stress aufrecht zu erhalten. Für die nachhaltige Entwicklung ökologisch-ökonomischer Systeme unter Bedingungen großer Unsicherheit und dynamischen Wandels ist die Erhaltung ihrer Resilienz eine Schlüsselvoraussetzung: Wie können wirtschaftlich genutzte Ökosysteme so gemanagt werden, dass die heutige Nutzung ihrer Funktionen und Leistungen nicht die Möglichkeit zukünftiger Nutzung gefährdet? In diesem Seminar wollen wir uns interdisziplinär – gestützt auf grundlegende Beiträge aus Ökologie, Ökonomie und Systemwissenschaften – mit der Frage auseinandersetzen, welche Erklärungskraft das wissenschaftliche Konzept der Resilienz für die Analyse und das Verständnis der Beständigkeit, oder umgekehrt des Kollapses, von Staaten und Gesellschaften hat, die ökologische Ressourcen (un)wirtschaftlich nutzen. Was genau kann man unter Resilienz verstehen? Von welchen determinierenden Faktoren hängt die Resilienz eines ökologisch-ökonomischen Systems ab? Wie kann man ökologisch-ökonomische Systeme auf ihre Resilienz hin analysieren, und welche Indikatoren für Resilienz gibt es? Wie gestaltet und managt man ein System so, dass es resilient ist? Kenntnisse: Studierende kennen das Konzept der Resilienz und wichtige einschlägige Literaturbeiträge Verständnis: Studierende können das Erklärungspotenzial, die Voraussetzungen und Begrenzungen des Resilienzkonzepts kritisch und auf grundlegendem fachlichen Niveau reflektieren und diskutieren. Anwendung: Studierende können das Resilienzkonzpt anwenden, um Umwelt-, Ressourcen- und Nachhaltigkeitsprobleme in verschiedenen Fallstudien zu erklären und zu lösen. Analyse: Studierende können die wechselseitigen Zusammenhänge zwischen ökonomischen und Umweltvariablen, die zur (Nicht-)Resilienz eines ökologisch-Ökonomischen Systems führen auf grundlegendem fachlichen Niveau analysieren.		
Remarks	Portfolio (75% Referat, 25% Diskussionsbeteiligung)		
Examination	Please register via: sabine.sane@ucf.uni-freiburg.de with your matriculation number. EES/ESS students have priority. Einführung in den ersten beiden Wochen mit (Präsenz-)Sitzungen am Donnerstag. Danach individuelles Selbststudium mit tutorieller Unterstützung. Referatsthemen werden in der Einführung in der ersten Woche vorgestellt und in der zweiten Woche vergeben		
Recommended Reading	See HISinOne		

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