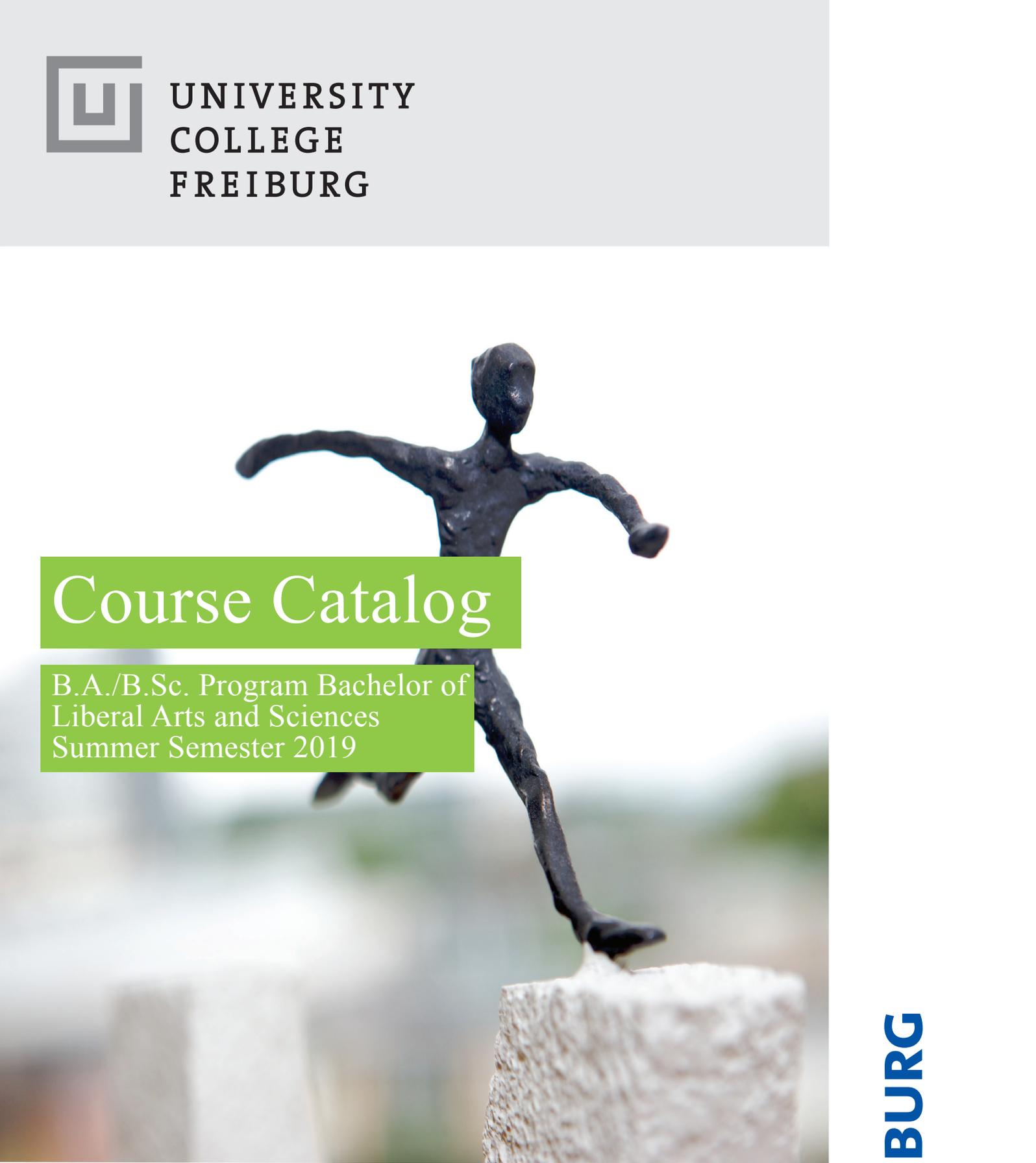




UNIVERSITY
COLLEGE
FREIBURG



Course Catalog

B.A./B.Sc. Program Bachelor of
Liberal Arts and Sciences
Summer Semester 2019

Albert-Ludwigs-Universität Freiburg

**UNI
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.

1 Teaching Periods and Dates

Teaching Period	Dates
Pre Block	March 18 – 29
Block III	April 8 – May 31
Block IV	June 3 – July 26
University Semester	April 23 – July 26 (semester-long LAS courses run according the university semester)
Resit Period	October 7 – October 31 (resit 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 LAS Academic Calendar

The LAS Academic Calendar contains important semester dates and deadlines for LAS students.

Date	Important Dates and Deadlines
March 2019	
Starting 09.03.	LAS Course Registration with consecutive registration (see Course Registration)
Tue 26.03.	Deadline: Application for SLI Language Courses (individual courses paid by UCF, the application form and guidelines are available on the Info Board on ILIAS)
18. – 29.03.	Pre-Block Courses
April 2019	
Mon 08.04.	Block III begins Exam registration and withdrawal for courses of Block III AND semester long courses in HISinOne begin (not for courses of Block IV).
Mon 15.04.	Deadline: Application for Courses of other Degree Programs at the University of Freiburg Courses (for graded examinations only) – Application forms have to be submitted to the course coordinators for recognition and signatures.
Mon 22.04.	Public Holiday: Easter Monday (no teaching)
Tue 23.04.	University semester begins
Fri 26.04.	Deadline: Application for Courses of other Degree Programs at the University of Freiburg Courses (for graded examinations only) - The application form and guidelines are available on the LAS Info Board on ILIAS – Please

Date		Important Dates and Deadlines
		use the newest application form! Note that incomplete applications will not be considered!
May 2019		
Wed	01.05.	Public Holiday: May Day (no teaching)
Sun	05.05.	Deadline: Exam Registration and Withdrawal for Courses of Block III AND Semester Long Courses in HISinOne (<u>not</u> for courses of block IV).
Tue	14.05.	Study Abroad Fair, 16:15h UCF KG 3043
Wed	15.05.	Deadline: Application Credit Recognition for Study Abroad (Guidelines and application forms are available on the LAS Info Board on ILIAS)
Thu	16.05.	Deadline: Application for Admission of Bachelor Thesis (4 th year students)
Thu	30.05.	Public Holiday: Ascension Day (no teaching)
Fri	31.05.	Block III ends
June 2019		
Mon	03.06.	Block IV begins
		Exam Registration and Withdrawal for Courses of Block IV in HISinOne begin.
10. – 15.06.		Pentecost Holidays (no teaching, but examinations of Block III possible)
Thu	20.06.	Public Holiday: Corpus Christi (no teaching)
Sun	30.06.	Deadline: Exam Registration and Withdrawal for Courses of Block IV in HISinOne
July 2019		
Fri	26.07.	Block IV ends
Sat	27.07.	University semester ends
Wed	31.07.	Deadline: Major Declaration to be considered for course selection of the upcoming semester (Declaration Forms are available on the LAS Info Board on ILIAS)
		Deadline: Application for Graduation SS 2018
August 2019		
29.7.-2.8.		LAS Selection Interviews
September/October 2019		
Beginning of September		Publication of the LAS Course Catalog WS 2018/19 on the UCF website
Tue	24.09.	Deadline: Application for Admission of Bachelor Thesis (4 th year students)
Starting 20.09.		LAS Course Registration for courses of the Winter Semester 2018/19 with consecutive registration periods (details tba)
30.09. – 11.10.		October Intensive Courses (details tba)
14. – 18.10.		LAS Welcome Week
Mon	21.10	University Semester and Block I begin

II 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. Please remember, in order to take examinations (and hence get credits for courses), students must additionally register for examination. Information on exam registration is provided at the beginning of the semester.

The outlined course registration procedure **applies to all courses offered by UCF that appear in the LAS Course Catalog (including language courses offered by UCF)**. 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 ILAS.

1 Who Needs to Register?

All students who wish to participate in Liberal Arts and Sciences (LAS) courses need to register for the courses in the manner and by the deadlines specified below.

2 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 III. Please additionally contact UCF (las.consultation@ucf.uni-freiburg.de) well in advance.

Registration Period I Sat, 9.3 - Tue, 12.3 (12:00h, noon)		
Who can register	For what	Comment
Liberal Arts and Sciences (LAS) students who have <u>formally</u> declared their major by 31 st of January	LAS courses to be recognized as Major courses only (<u>not</u> 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 <u>not</u> formally declared their major by 31 st of January can only register for courses in Registration Period II.
<p>Places will be assigned after the registration period. Higher year students will get priority on places unless otherwise noted in the course description.</p> <p>You can check your registration status on Wednesday 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 Thu, 14.03., 14:00h to 18:00h in HISinOne.</p> <p>Please, de-register from courses that you do not want to take immediately.</p>		

Registration Period II Sat, 16.3 - Tue, 19.3 (12:00h, noon)		
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 to be taken as 6 ECTS courses	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.
<p>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 its major will not be considered anymore.</p> <p>You can check your registration status on Wednesday 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 Thu, 21.03., 14:00h to 18:00h in HISinOne.</p> <p>Please, de-register from courses that you do not want to take immediately</p>		

Registration Period III Sat, 23.03 - Wed, 27.03 (12:00h, noon)		
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.
<p>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 other faculties.</p> <p>Please, de-register from courses that you do not want to take immediately.</p>		

3 How to Register for Courses?

Course registration takes place in the campus management system HISinOne (see below).

LAS Exchange students who have not yet enrolled at the University of Freiburg can only register for courses with the form provided by UCF.

Students of other faculties at the University of Freiburg are asked to contact UCF (las.consultation@ucf.uni-freiburg.de) before registering for courses in HISinOne.

- 1) Go to <https://campus.uni-freiburg.de> (You can change the language to English in the lower right corner if you wish)
- 2) **Login** with your Uni-Account
- 3) Go to Mein Studium (My Studies) > Studienplaner (Planner of Studies)
- 4) Select the correct Semester of Studies
- 5) Courses (📖) are linked to the corresponding LAS modules (📌). Here, you can find registrations links for the courses (**you must be logged in** otherwise registration links will not appear). You may need to click a couple of times on different symbols (📌📌) until registration links appears.

Please note:

- Once you click on the registration link, the system will again ask for the module that you wish to register the course for. **Make sure to select the same module as for the exam registration later on.**
 - For LAS students, all major modules (📌) appear twice in the Study Planner in HISinOne: in the respective Major and in the Electives.
 - Students who have declared their major register their Major courses as part of their Major and courses from other Majors as part of the Electives (Electives - Major modules, Wahlbereich – Module der Spezialisierungslinien).
 - Students who have not yet declared their major register the first *three* Introductions to Major as part of the respective Major.
 - Students who have not yet declared their major register all *other* courses as part of their Electives (Electives - Major modules, Wahlbereich – Module der Spezialisierungslinien). Once they declare their major, relevant credits will be transferred to the Major.
 - Some courses can only be taken as Major or Core courses and not as Electives (see information provided in the course catalog). Such major courses are not open to exchange students.
 - For courses with several workgroups and a lecture, students need to register for the workgroup they would like to attend. Here, registration for the lecture is not possible.
 - Exchange students can select any possible module to register their course as.
 - Only students, who have already fulfilled all modules that are listed in the course catalog, can register their course as Elective module (Joker) (numbers 00LE62MO-LAS1215-7264 to 7268).
- 6) **Always check your registration status afterwards** (Mein Studium (My Studies) > Meine Veranstaltungen und Prüfungsanmeldungen (My enrollments and examinations)).

4 Participant Lists

Course participant lists will be finalized **on Monday, April 1, 2019** 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 cancelled.

5 Problems with Course Registration?

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

Always provide

- Your name
- Your matriculation number
- Your study and examination regulations (2012, 2015, Exchange student)
- Your major (if declared formally)
- the exact module title that you wish to register your course for
- and information about your problem. Please provide a screenshot of your problem whenever possible.

III Exam Registration

1 LAS Specifics – Exam Registration

General

- The LAS specifics concerning course registration apply (see **Fehler! Verweisquelle konnte nicht gefunden werden.**)
- Register for examinations for all course offered by UCF that you wish to get credits for.
- Course based assessments are conducted in the form of module exams. In order to take a module exam, you must register for examination by the deadline as specified in the **Fehler! Verweisquelle konnte nicht gefunden werden..**
- LAS courses usually entail a pass/fail assessment (Studienleistung) and a graded assessment (Prüfungsleistung). Details concerning the assessments (form of assessment, etc.) are announced at the beginning of the courses.
- If a module contains both a **graded (Prüfungsleistung) and a pass/fail examination (Studienleistung), you need to register for both.**
- If you have already fulfilled the graded or pass/fail examination of a module in a previous semester (see transcript in HISinOne), you can only register for the corresponding examination of the module.
- Students who failed a graded examination in a previous semester will automatically be re-registered for this examination by the examination office.
- You can register for each module examination only once and only completed modules will count towards your total ECTS credits and therefore your degree.
- Module and course titles will appear on your transcript. So, if you have a choice of different modules for one course, please keep this in mind when choosing a module.

Electives

- Taking the pass/fail assessment only (3 ECTS, Studienleistung) should be seen as an exception and is only possible in the electives section and in *prior* agreement with the instructor. Students who wish to only take the pas/fail assessment must register their pass/fail assessment as one of the joker modules in the Electives (Joker, numbers 00LE62MO-LAS1215-7261 to 7269, use the smallest number first).
- For information on exam registration for courses of other degree programs at the University of Freiburg (that are *not* listed in the LAS course catalog) or Language courses at the SLI, please refer to the guidelines on taking courses at other degree programs that are available on the [LAS Info Board](#) on ILIAS.

2 Who Needs to Register for Examination?

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

3 When to Register for Examination?

Registration Period	Dates	Exam Registration and Withdrawal
1	18.3.2019 - 29.3.2019	Pre-Block Intensive courses
2	8.4.2019 – 5.5.2019	Block III AND semester long courses (<u>not</u> Block IV courses)
3	3.6.2019 – 30.6.2019	Block II courses

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.**

4 How to Register for Examination?

4.1 LAS students and LAS exchange students (UCF partner programs only)

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 outlined below.

4.2 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.

4.3 Exam registration in HISinOne.

- 1) Go to <https://campus.uni-freiburg.de> (You can change the language to English in the lower right corner if you wish)
- 2) **Login** with your Uni-Account
- 3) Go to My Studies (Mein Studium) > Planer of Studies (Studienplaner) > Select your current LAS Study and Examination Regulations
- 4) Select the semester of examination. Select "alle aufklappen".
- 7) Graded (🌟 red) and pass/fail exams (🌟 blue) are linked to the corresponding modules (📌). Here, you can find a registration link for the examination of your course (you must be logged in otherwise the registration link will not appear). You may need to click a couple of times on different symbols (📌📌) until the registration links appears.
- 5) Click on the registration link and follow the instructions.
- 6) Always check your registration status afterwards (My Studies (Mein Studium) > My enrollments and registrations (Meine Prüfungsanmeldungen und Belegungen).
- 7) Please print and keep a copy of your registration or your transcript of records as proof of your exam registration.

4.4 Has the exam registration been successful?

Pass/fail assessments (Studienleistungen) will appear as REG (Registriert) and graded assessments (Prüfungsleistungen) as ZU (zugelassen) in HISinOne. See My enrollments and registrations or your transcript of records.

5 Problems with Exam Registration

See **Fehler! Verweisquelle konnte nicht gefunden werden..**

IV Course Descriptions

All courses entail a pass/fail assessment (Studienleistung) and a graded assessment (Prüfungsleistung). Details on the assessments are announced at the beginning of the courses.

1 Pre-Block Courses

1.1 Study Area: Core

International Justice and Ethical Leadership by Design			
Course Number	00LE62S-LAS-CO0046	Teaching Period	Pre-block
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Action and Responsibility	Module(s) (StuPo 2015)	Responsibility and Leadership 2, Elective (Joker) for left over places only
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Responsibility and Leadership 1		
Instructor(s)	Esther Earbin, J.D. (esther.earbin@gmail.com)		
Format, Dates, Times and Rooms	18.-29.3. Seminar 13-17h, AU 01042		
Course Description	<p>In today's complex and connected world, effective decision-making is one of the most important skills a person can continue to develop over a lifetime. The implications of one decision can seriously affect an individual or a nation. Therefore, ethical, yet effective, decision-making should be seen as a global endeavor that requires innovative thought and action. This course is designed to teach ethics using an experiential approach to ethical leadership and justice. Ethical leadership explores how leaders responsibly use their social power in the way they decide, act and influence. Students will explore their position in and responsibility to the world, while learning about the global injustices that can often occur from the actions connected to certain moral principles. The course seeks to provide students with a framework to develop practical, ethical reasoning skills. At the same time, students will learn and practice a solution-based approach, based on the design-thinking process (Empathize, Define, Ideate, Prototype, and Test), for tackling complex problems and pursuing justice-centered outcomes.</p> <p>The course includes three sections: 1) Interact, 2) Enact and 3) Act. Students are provided with pre-reading and online activities before the course. Course attendance is focused on simulation exercises using real life examples, group discussion and a small, in-class project. There will also be an exploration of current events and media examples to further connect ethical leadership to everyday life. Guest speakers will also provide examples of modern ethical decision making, exposing students to both prominent and little heard voices in ethical leadership.</p>		
Examination	06.04.2019		

Psychological Foundations for Responsible Citizen- and Leadership in Diverse Environments			
Course Number	00LE62S-LAS-CO0047	Teaching Period	Pre-block
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Anthropology and Experience	Module(s) (StuPo 2015)	Responsibility and Leadership 2, Elective (Joker) for left over places only
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Responsibility and Leadership 1		
Instructor(s)	Dr. Lisa Hüther-Pape, Dipl. Psych. (lisa.huether@psychologie.uni-freiburg.de)		
Format, Dates, Times and Rooms	18.-29.3. Seminar 18.-21.3., 9-16h, AU 01 036a (22.3., 9-16h, Wilhelmstr. 26, R 016 - optional) 25.-29.3., 9-16h, AU 01036a (The course will not take place during all of these dates; exact times will be announced one week before the intensive course)		
Course Description	<p>This course will introduce you to approaches, theories, and findings from (mostly social) psychology. Course contents are selected and combined to provide a comprehensive, scientifically based understanding of processes in human cognition and interaction which may hinder or advance successful performance, communication, and cooperation. A specific focus is placed on settings in which individuals with diverse backgrounds interact. We will, for instance, cover stereotypes, attribution errors and perceptual biases, as well as foundations for failure or success in (intercultural) communication.</p> <p>Following common seminar structure in German psychology courses, you will select one specific focus topic to pursue in-depth, scaffolded by the instructor. This includes (but is by no means limited to) reading, summarizing, interpreting, and critically reflecting scientific studies. Based on your acquired expertise, you will prepare and implement a workshop unit for/with your fellow course-members including active learning elements, e.g. group-discussions, behavioral experiments, and/or experience exchange. Thus, while <i>en passant</i> practicing and improving their own educational skills, all course members shall benefit from the expertise gained by their fellow students.</p>		
Examination	06.04.2019		
Recommended Reading	Selected scientific articles will be provided via ILIAS. Book recommendation for an overview of how research in (social) psychology explains various behavioral phenomena: Aronson, E., Wilson, T. D., Akert, R. M., & Sommers, S. (2016). <i>Social Psychology</i> (9th ed.). Boston: Pearson		

1.2 Study Area: Multiple

Beer and Wine as Crafts			
Course Number	00LE62S-LAS-CHEE0001	Teaching Period	Pre-block
Study Area(s)	Electives	Credit Points	3
Module(s) (StuPo 2012)	Elective (Joker)	Module(s) (StuPo 2015)	Elective (Joker)
Open to Students	Year(s) 1-4	Max. Enrollment	10
Prerequisites	none		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni.freiburg.de) Dr. Ryan Plumley (ryan.plumley@ucf.uni.freiburg.de) Dr. Simon Büchner (simon.buechner@ucf.uni.freiburg.de)		
Format, Dates, Times and Rooms	Seminar Thu, 28.03., 9 - 11h, KG 1016 Fri, 29.03., 11 - 14h, Feierling Tue, 02.04., 10 - 12h, AU 01065 Tue, 02.04., 13 - 15h, AU 01065 Tue, 02.04., 16 - 20h, at Feser		
Course Description	<p>Beer and wine can be understood from a variety of perspectives: as intoxicants, as market commodities, as elements of social ritual, as conservation of biodiversity, and so on. Particularly in our region, the production of these beverages have long histories and also important contemporary relevance as sources of economic prosperity, as aspects of cultural identity, and as features of the ever-changing relationship between human beings and nature.</p> <p>In this mini-seminar, a cooperation between Earth & Environmental Sciences and Culture & History, we will approach beer and wine as a way that human beings make use of other organisms (yeast, hops, grapes, etc.) and interact with the environment (biodiversity, climate, terroir). We will focus on craft as a way of describing the kind of knowledge and practice that structures this interaction in ways that offer both positive opportunity and negative consequences for the people, the organisms, and the environment.</p> <p>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 Dr. Feser's winery (Wildtal).</p> <p>Questions we will consider include: What is a craft? What makes craftwork distinct from other kinds of work? How is scientific expertise related to craftsmanship? How do human beings create relationships to other organisms and to the wider environment? Are those relationships exploitative or reciprocal?</p>		
Remarks	Registration is already complete.		

2 Courses Offered in Block III

2.1 Study Area: Core

Intercultural Communication			
Course Number	00LE62S-LAS-CO0045	Teaching Period	Block III
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Culture and Communication	Module(s) (StuPo 2015)	Responsibility and Leadership 2, Elective (Joker) for left over places only
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Responsibility and Leadership 1		
Instructor(s)	Dr. Simone Kraiss (simone.kraiss@sli.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Thu, 8-12h, R.2.5.1. Herder-Verlagsgebäude		
Course Description	<p>We live in a globalized world and every day we communicate with people from different cultural backgrounds. Varieties in how, what and why people communicate can lead to challenging and confusing situations.</p> <p>Intercultural communication skills help us to understand these differences and lead successful intercultural encounters on a professional and personal level. This course is an introduction to intercultural communication. It will help you to develop cultural self-awareness and open-mindedness, and to critically reflect and improve your own communication behavior. Therefore, it will provide you with theoretical and practical tools.</p> <p>On a theoretical level, we will first focus on culture and communication. Human cultural diversity cannot be understood without looking upon human evolution and adaptation processes. Common models of "culture" will be critically discussed. Furthermore we will learn about the social functions of communication and the biological and psychological factors influencing communication processes.</p> <p>On this basis we will further examine theoretical aspects of intercultural communication. Taxonomies and models offering different approaches for definitions will be analyzed. What does intercultural communication mean? How can cultural differences like value orientations and cultural patterns be measured? In this context, the roles, advantages and dangers of cultural stereotyping are discussed. A central concern of this class is the development of cultural self-awareness as requisite for cultural open-mindedness. How does my own cultural background influence my social behavior? And to which degree is this influencing my perception of others? Ethnocentrism as an act of judging other people based on your own way of thinking will be investigated. In more practical orientated sequences we will focus on how verbal and non-verbal communication differs from culture to culture. We will apply this knowledge in training sessions by a methodological variety including personal reflections, simulations, briefings and analysis of media and case studies. This will help us to identify barriers of effective intercultural communication and develop strategies for overcoming them.</p>		
Remarks	Additional times will be announced in the first session.		
Examination	02.06.2019		

2.2 Study Area: Culture and History

Authenticity and Fiction			
Course Number	00LE62S-LAS-CH0047	Teaching Period	Block III
Study Area(s)	Culture and History, Electives	Credit Points	6
Module(s) (StuPo 2012)	Sociocultural Anthropology or Area Studies, Advanced Culture and History I or II	Module(s) (StuPo 2015)	Sociocultural Anthropology or Area Studies, Advanced Culture and History I, II or III
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Culture and History		
Instructor(s)	Thorsten Leiendecker, M.A. (thorsten.leiendecker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 9-12h, AU 01065 Thu, 9-12h, BT 102		
Course Description	<p>What is more 'authentic'? The original, which is often torn from its context and sometimes even incomplete and fragmentary? Or an imitation that is embedded in a meaningful setting and reproduces essential knowledge in a more complete and satisfying way? More than ever before, we are obsessed with an intense striving for historical or cultural authenticity. It is negotiated, explicitly or implicitly, in almost all kinds of representations: in museums, sites and exhibitions; film and literature; living history and re-enactment. How we articulate and situate authenticity in these spaces and media is an important indicator of how we make meaning of our present.</p> <p>In this course, we will explore the different meanings and articulations of authenticity and its many synonyms ('real', 'true', 'factual') and opposites ('imitation', 'simulation', 'fake'). This will include an intellectual tour de force which will cover thinkers and concepts such as Benjamin (and aura), Sartre vs Adorno (and jazz), Baudrillard (and simulacrum). With these theoretical approaches in mind an in a framework defined by Cultural Studies and Discourse Analysis, we will visit museums of arts and history, compare literature and films, and study groups that re-enact history.</p> <p>Students will produce a portfolio (PL) with papers on each of these sections and a give a small-ish presentation at one of two mini-conferences (SL).</p>		
Examination	02.06.2019		
Recommended Reading	Relevant texts and readings will be available on ILIAS.		

2.3 Study Area: Earth and Environmental Sciences

Energy Technology			
Course Number	00LE62S-LAS-EE0016	Teaching Period	Block III
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II
Open to Students	Year(s) 2-4	Max. Enrollment	16
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de) Dipl. Ing. Johannes Erben		
Format, Dates, Times and Rooms	Seminar and practical Tue, 8-12h, AU 01036a Thu, 8-12h, AU 01036a		
Course Description	<p>One big challenge of the 21st century is the provision of a growing energy demand due to an increase in population and living standards without destroying the planet. In this respect, the benefits and limitations of traditional sources like coal, gas and oil vs. types of renewable energies like biomass, wind and solar power are often discussed.</p> <p>This course introduces you to the current energy technologies. We will identify potential applications, advantages and limitations of different energy technologies and fuels that drive them by getting to know the sciences behind them.</p> <p>You will focus on three main topics: (1) electrochemical technologies which comprise batteries and fuel cells (2) heat engines, which include motors, gas turbines, cooling processes and alike and (3) other (supporting) technologies such as generators, electric motors, nuclear power, wind turbines, solar cells and hydro power.</p> <p>The theoretical part of the course will be supported by practical work.</p> <p>After this course you will be able to recognize and understand the types and differences between current energy technologies and fuels. You will be able to evaluate and compare these technologies and furthermore, to apply your knowledge in current discussions about the benefits and limitations of prospect energy technologies</p>		
Remarks	EES students have priority. Recommended year 3-4.		
Examination	28.05.2019		

2.4 Study Area: Governance

Foundational Year: Introduction to Governance			
Course Number	00LE62VS-LAS-GO0001	Teaching Period	Block III
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	---	Module(s) (StuPo 2015)	Introduction to Governance
Open to Students	Year(s) 1-(2)	Max. Enrollment	65
Prerequisites	none		
Instructor(s)	Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>Plenary sessions (Apr 8-May 27) Mon, 16-18h, KG 3042 Tue, 14-16, KG 1015</p> <p>Workgroups:</p> <p>WG1 WG2 Thu, 12-14h, KG 1019 Fri, 10-12h, AU 01036a</p> <p>WG3 Fri, 12-14h, AU 01036a and Ph HS2</p> <p>Additional dates: Apr 23, 14-18h, KG 3219 May 28, 14-16h, KG 3219</p>		
Course Description	<p>This course will acquaint you with central topics in the study of how human communities are created and how they govern themselves, give you the appropriate vocabulary to discuss these topics, and prepare you to understand what ways of presentation, explanation and argumentation are accepted by governance scholars' community.</p> <p>The course is taught in two formats: plenary and workgroup sessions. Plenary sessions are interactive lectures, based on home readings, and cover six major topics in the area of governance (one per week):</p> <ul style="list-style-type: none"> • social contract: How do people come to live together in a state in the first place, according to philosophers? • collective action: How do people behave in groups and why? • democracy: What are the types of democracy and which type is realized today? • politics and administration: What is the role of trained state officials in a political system based on elections? • agenda-setting: How and why do some issues are acted upon at the political level while other important topics are neglected? • forecasting: What can we know about the future of socio-political systems and issues? <p>Workgroup sessions (20-25 students) combine plenary session material with analytical skills, such as interpreting the visuals, working with definitions, or understanding political humour. These sessions are based on group work and require active engagement and participation.</p> <p>Note that this course gives you 6 ECTS in only seven weeks, so it will be intensive and you will learn a lot quickly.</p> <p>Requirements:</p>		

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	Quizzes in class starting from the second week; short written analytical assignment; written exam on May 28. Re-sit exam will take place at the end of Block IV.
Remarks	Please pay attention to the schedule of the course: the course starts on April 8, 2019; an extra session on April 23, 16-18h (immediately after the regular class); written examination on May 28. Students intending to take the Major Governance must take this Introduction in their first year. This course is the prerequisite for all advanced courses in Governance.
Examination	28.05.2019
Recommended Reading	There is obligatory reading for the first session, see ILIAS. All course readings are available on ILIAS, so feel free to look at them if you are curious.

International Relations and Institutions			
Course Number	00LE62S-LAS-GO0034	Teaching Period	Block III
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Comparative Government, Advanced Governance I or II, Elective module (Joker)	Module(s) (StuPo 2015)	Global Governance, Advanced Governance I or II, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 8-12h, Werthmannstraße 4, HS 01016 Thu, 8-12h, AU 01065		
Course Description	<p>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.</p> <p>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.</p> <p>Learning goals:</p> <ul style="list-style-type: none"> • 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 vocabulary and 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. <p>Requirements: 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, and review in writing another student’s presentation.</p>		
Remarks	Second-year students taking this course for the module Global Governance will have priority; no priority for senior students!		
Examination	The examination consists of a presentation (incl. a detailed handout), and an analytical paper on an IR topic of your choice (due after the Pentecost holidays on 16.06.2019). Re-sit (100% of the grade) is in the form of a long analytical paper on a prescribed IR topic, due on 22.09.2019.		
Recommended Reading	Robert G. Blanton: Zombies and International Relations: A Simple Guide for Bringing the Undead into Your Classroom, <i>International Studies Perspectives</i> , Volume 14, Issue 1, 1 February 2013, Pages 1–13, https://doi.org/10.1111/j.1528-3585.2012.00505.x		

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2.5 Study Area: Life Sciences

Cell Biology			
Course Number	00LE62S-LAS-LS0004	Teaching Period	Block III (course starts on April 23)
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Cell Biology	Module(s) (StuPo 2015)	Cell Biology, Elective for other majors
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Life Sciences		
Instructor(s)	Prof. Dr. Eleni Roussa (eleni.roussa@anat.uni-freiburg.de)		
Format, Dates, Times and Rooms	23.4.-24.5. Seminar Mon, 14-16h, Albertstr. 17, Room -1.012 Tue, 16-18h, Albertstr. 17, Room -1.012 Thu, 14-16h, Albertstr. 17, Room -1.012 Laboratory work Fri, 10.05., 13-16h Fri, 17.05., 8-12h Fri, 24.05., 8-12h		
Course Description	<p>This course provides a basic understanding of structure and the molecular functions of the different components of eukaryotic cells. Topics include methods for studying cells, the structure and function of cell organelles, and analyses of cellular processes. Lectures will introduce the molecular biology of the cell and the regulation of cellular processes. Emphasis is placed on endocytosis, exocytosis, intracellular transport, protein sorting, protein trafficking, protein targeting, cell motility, cell-to-cell interaction, and gene expression. Several lectures are devoted to cell fate specification during embryonic development, address how functional tissues and organs in multicellular organisms are formed, and how dysfunction of cells contributes to disease. Classes are centered on Problem Based Learning (PBL) and discussion-oriented lectures with active participation by students. Laboratory exercises focus on basic concepts of molecular cell biology and microscope techniques. Students learn techniques of light microscopy and principles of transmission electron microscopy, and study structural aspects by viewing prepared microscope slides and related electron micrographs. Laboratory exercises also include classical cell biology experiments.</p> <p>Upon completion of this course, students will demonstrate a comprehensive understanding of the structure and molecular function of living cells.</p>		
Remarks	Although being a block III course, this course doesn't start before April 23. Compulsory laboratory sessions on Friday, May 10 (13:00-16:00); Friday, May 17 and May 24 (both 08:00-12:00h)		
Examination	Written exam on 27.05.2019 (14-16h)		
Recommended Reading	Alberts, B., et al. (2014) <i>Molecular Biology of the Cell</i> (6th edition). Garland Publishing. Alberts, B., et al. (2013) <i>Essential Cell Biology</i> . Garland Science. Books are available in the reading room: NT/Alb/1 and NT/Alb/2		

Osteology and Beyond - Selected Aspects of Biological Anthropology			
Course Number	00LE62S-LAS-LS0026	Teaching Period	Block III
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Life Sciences I or II, Electives	Module(s) (StuPo 2015)	Advanced Life Sciences I, II or III, Electives
Open to Students	Year(s) 2,3,4	Max. Enrollment	12
Prerequisites	Introduction to Life Sciences (required), Human Physiology (helpful, but not required)		
Instructor(s)	Dr. Simone Kraiss (simone.kraiss@slf.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>Seminar (Tuesday 08:30-12:00 plus extra dates), rooms change throughout the semester!</p> <ul style="list-style-type: none"> • Tue, 09.04. 08.30-12:00, BT 201 • Tue, 16.04. 08.30-12:00, BT 201 • Tue, 23.04. 08:30-12:00, Institut für Humangentik, Breisacher Str. 33 entrance, later: Hermann-Herder-Str. 9, R 01 020C • Tue, 30.04., 07.05., 14.05. 08:30-12:00, Hermann-Herder-Str. 9, R 00 019/20 • Fri, 17.05. 13:00-17:00, Biologische Anthropologie, Hebelstraße 29, Vorderhaus entrance • Tue, 21.05. 08:30-12:00, Alte Pharmazie, Hermann-Herder-Strasse 9A, 01020 • Fri, 24.05. 13:00-17:00, Ph HS 1, later excursion to Archaeological Museum Colombischlössle • Tue, 28.05. 8:30-12:00 Biologische Anthropologie, Hebelstraße 29, Vorderhaus, seminar room 		
Course Description	<p>Anthropology is an extremely broad academic field exploring humans in their physical, cultural and historical complexity. Biological Anthropology is one of its major branches investigating human evolution, adaptation to different environments and biological conditions influencing our behavior. To explain these issues knowledge from other disciplines like cultural and social anthropology, history, biology or psychology has to be integrated and studies focus not only on living and dead humans but also on other primates and fossils of human ancestors. Thus, Biological Anthropology is per se an interdisciplinary field situated between science and humanities.</p> <p>This class is a basic introduction to Biological Anthropology focusing not only on theoretical knowledge but also on practical aspects. You will learn how Archaeology, Archaeological Sciences and Bioarchaeology reconstruct living conditions of (pre-)historic humans. Prehistoric sites will be introduced to understand archaeological field work. The specific topics "migration" and "drug use" will demonstrate in an exemplary way the principles of archaeological materials and methods and their challenging interpretation. By an excursion to the Archaeological Museum Colombischlössle regional archaeological finds and their presentation in museums can be studied. Five sessions will be dedicated to practical trainings in Osteology (the scientific study of bones). You will work with archaeological skeletons and learn how to determine age and sex how to find markers for diseases and cultural modifications. An expert will introduce you to bone trauma analysis. One session in Forensic Anthropology will demonstrate the application of these methods in present-days criminal investigation. We will visit the Forensic Lab of the Institute of Biological Anthropology and learn to determine individual age by tooth cementum annulation (TCA). Furthermore, you will see how Paleoanthropology traces back human evolution. The study of prehistoric skulls models will help you to understand the evolutionary (developing/developing-) process of anatomical features in the hominid family leading to the emergence of Homo sapiens. Additionally, an introduction to Primatology will explain how the investigation of our closest relatives helps us to understand human behavior.</p>		

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Remarks	Life Sciences students have priority in course registration.
Examination	Protocol due on 31.05.2019 and an individual and a group presentation during the course.
Recommended Reading	<p>Larsen, Clark Spencer. 2002. „Bioarchaeology: The Lives and Lifestyles of Past People“. <i>Journal of Archaeological Research</i> 10 (2): 119–66. https://doi.org/10.1023/A:1015267705803</p> <p>Scheuer, Louise. 2002. „Application of Osteology to Forensic Medicine“. <i>Clinical Anatomy</i> 15 (4): 297–312. https://doi.org/10.1002/ca.10028</p>

2.6 Study Area: Multiple

Advanced Statistics			
Course Number	00LE62VS-LAS-GOLSEE0002	Teaching Period	Block III
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Elective	Module(s) (StuPo 2015)	Methods (Life Sciences) Elective module (Joker) (only if "Methods" module is already covered with a different course), Elective for other majors
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Dealing with Numerical Information		
Instructor(s)	Ralf Zeidler (ralf.zeidler@fridata.de)		
Format, Dates, Times and Rooms	Seminar Tue, 12-14h, KG 1032 Thu, 12-14h, KG 1140 Additional dates: Fri, 26.04. 12-16h, AU 01 036a Sat, 27.04. 9-17h, AU 01 042 Fri, 03.05. 12-16h, KG 1222 Sat, 04.05. 9-17h, KG 1009		
Course Description	The course builds upon and continues the content covered in DNI and extends it to a broad range of statistical methods used in the life sciences, environmental sciences, economics, and other fields. It covers, for example, ANOVA, multiple regression models, time series and permutation tests. The theory explained in one session will be directly applied in the statistical software R in the next session. Project work will be done to practice the whole process from an experimental design to the appropriate data analysis with the available statistical methods.		
Remarks	Students must have a laptop available throughout the course and have R installed before the first course session. In addition students can make use of the university's computer labs https://www.rz.uni-freiburg.de/services-en/pc-en/pcpools-en?set_language=en Students from the Life Sciences taking this course for the "Methods" module will get priority over other students during the course place assignment. Course includes two Friday afternoons and two full-day sessions on Saturdays. Participation in these sessions is mandatory.		
Examination	To be announced in the first course session		
Recommended Reading	Field, A., Miles, J., & Field, Z. (2012). <i>Discovering Statistics Using R</i> . Sage publications. (reading room: NT Fie 1) Crawley, M. J. (2012). <i>The R Book</i> . John Wiley & Sons. (reading room: NT Cra 1)		

3 Courses Offered in Block IV

3.1 Study Area: Culture and History

The Sources and Consequences of Religious Belief			
Course Number	00LE62S-LAS-CH0048	Teaching Period	Block IV
Study Area(s)	Culture and History, Electives	Credit Points	6
Module(s) (StuPo 2012)	Culture and History Up to the Early Modern Period Advanced Culture and History I and II	Module(s) (StuPo 2015)	Culture and History Up to the Early Modern Period Advanced Culture and History I, II and III
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Dr. Adam Hill (robertadamhill@gmail.com)		
Format, Dates, Times and Rooms	Seminar Tue, 9-12h, AU 01065 Thu, 9-12, AU 01065		
Course Description	<p>The sixteenth-century Protestant Reformation was caused by a unique set of political, cultural, and economic conditions, but there is no denying the fundamental impact of the theological changes proposed by the reform-minded religious thinkers of the period. While the reformation of doctrine was intended to change both the Church and the religious perspectives and experiences of the laity, it is important to consider the many unintended consequences produced by these theological revisions. This course will first examine the nature of religious change during the Reformation, and then it will investigate the unintended impact that these theological revisions had upon the artistic, economic, political, and social life of early modern Europe.</p>		
Examination	25.07.2019		

3.2 Study Area: Earth and Environmental Sciences

Foundational Year: Introduction to Earth and Environmental Sciences			
Course Number	00LE62V-LAS-EE0001 00LE62S-LAS-EE0001	Teaching Period	Block IV
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	---	Module(s) (StuPo 2015)	Introduction to Earth and Environmental Sciences
Open to Students	Year(s) 1-(2)	Max. Enrollment	65
Prerequisites	none		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de) M.Sc. Vivien von Königslöw		
Format, Dates, Times and Rooms	Lecture Mon 8-10h, KG 3042 Workgroups WG1 Tue, 10-14h, Werthmannstr. 4, HS 01016 Wed, 08-10h, Ph HS2 WG2 Wed, 10-14h, KG 1227 Thu, 12-14h, KG 1019		
Course Description	<p>Many stores in Germany stopped selling plastic bags. But is it really better for the environment to use paper instead of plastic? Questions like this are often discussed in everyday life. In this course we will analyze these questions on a scientific basis by exploring the broad field of the Earth and Environmental Sciences. Thereby, you will also get to know the basics behind this discipline. We will focus on sustainability by engaging with the environmental, social and economic dimensions of it. You will get introduced to methods used to quantify the sustainability of products, activities and processes which will enable you to analyze decision-making processes towards more environmental sustainability in an academic manner.</p> <p>Furthermore, you will discover research methods used in Earth and Environmental Sciences through practical work. This will introduce you further to the great variety of fields the Earth and Environmental Sciences tackle.</p>		
Remarks	You will get informed about the exact dates latest on the 1st day of the course (e.g. courses may not start each Wednesday at 8:15). However, until then, do not plan anything throughout the timeframe indicated in the course catalog.		
Examination	Portfolio: Several small assignments, Submission Deadline of final part: 29.07.2019		

3.3 Study Area: Governance

Critical International Relations: Feminist, Postcolonial, and Indigenous Perspectives			
Course Number	00LE62S-LAS-GO0046	Teaching Period	Block IV
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Governance I or II, Specialization Option: Politics, Law, Administration, Elective module (Joker)	Module(s) (StuPo 2015)	Advanced Governance I or II, Specialization Options I or II, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance; highly recommended - International Relations and Institutions or a similar course		
Instructor(s)	Dr. Lewis Turner (lewis.turner@abi.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 8-12h, AU 01036a Thu, 8-12h, AU 01036a Two extra sessions need to be scheduled to compensate for holidays (provisionally, Friday, June 21 and Friday, July 12)		
Course Description	<p>Over the past few decades, there has been a rapid expansion of IR from 'critical' perspectives. Researchers have challenged mainstream theories and ideas, demanding that new voices, experiences, ideas, and subjects be included in the study of world politics.</p> <p>This course examines feminist, postcolonial, and indigenous IR in significant depth. It will enable students to analyse how these ideas can challenge and change established understandings of world politics, and how they can broaden and deepen their own understandings of IR.</p> <p>The course seeks to answer two overarching questions. Firstly, how can these 'critical' perspectives change our understanding of the established subject matter of International Relations? For example, what can we learn from feminists about war, peace and violence? How does incorporating Native American conceptions of nationhood alter understandings of sovereignty? Secondly, how can these perspectives not only enrich our understandings of the topics of 'mainstream' IR, but also change our view of what IR is about? Why have questions of colonialism and race typically been ignored by the discipline? What does IR have to say about topics such as domestic violence, diplomatic spouses and 'sex tourists'? This course will include case studies from, and the work of scholars from, both the Global South and the Global North.</p> <p>Pass/fail requirements: attendance and a class presentation</p> <p>Examination requirements: 25% short Perspective Paper – students will "re-tell" an important event in International Relations from feminist, post-colonial or indigenous perspectives (due end of June). 75% Annotated Bibliography (due end of August).</p>		
Remarks	Provisionally, we plan two extra sessions in the afternoon of Friday 21st June and Friday 12th July.		
Examination	31.08.2019		
Recommended Reading	Detailed reading suggestions are available on the Governance Wiki (main page). Cynthia Enloe (original 1990/revised edition 2014) <i>Bananas, Beaches and Bases: Making Feminist Sense of International Politics</i> . Roxanne Dunbar-Ortiz (2014) <i>An Indigenous People's History</i>		

3.4 Study Area: Life Sciences

Biochemistry			
Course Number	00LE62S-LAS-LS0002	Teaching Period	Block IV
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Biochemistry	Module(s) (StuPo 2015)	Biochemistry, Elective for other majors
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Life Sciences		
Instructor(s)	Prof. Dr. Thorsten Friedrich (friedrich@bio.chemie.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture/Seminar Mon, 14-16h, Albertstr. 21, 9th floor, room 09.020 Tue, 14-16h, Albertstr. 21, 9th floor, room 09.020 Thu, 14-16h, Albertstr. 21, 9th floor, room 09.020		
Course Description	<p>Leaves change their color in autumn. Food is preserved in a refrigerator. A gecko has the ability to walk up walls and along ceilings. Have you ever asked yourself why this happens? The answer to all this is chemistry. Chemistry is the science dealing with the nature of substances and their interconversion. It plays a predominant role in our daily life including things as simple as lighting a match and as complex as the development of an anti-cancer drug. Chemistry pervades much into the life sciences. In fact, a biologist understands what is going on in a cell only based a profound knowledge in chemistry. Our body is a bag full of chemicals. The proteins that form our hair and muscle fibers are chemicals, our bones and teeth are made up of chemicals, what we eat and drink are chemicals. Everything that we see around us is chemistry in action, a collection of an unthinkable quantity of</p> <p>atoms. Chemistry tells us how atoms react with each other to form larger substances and how these substances in turn react to form new substances. There are a few basic principles behind the way, how the larger substances are made and how they behave.</p> <p>This lecture will deal with the fundamental topics of general, organic and biological chemistry. After a general introduction we will have a look at the structure of atoms and the arrangement of electrons in atoms. We will then discuss how bonds lead to the formation of molecules and how this influences the threedimensional shape of molecules. This will be the basis for understanding the function of biochemical compounds. With that in mind we will move a step further and get a first glimpse on chemical reactions in order to describe a chemical equation. To fully understand whether a reaction can proceed, we will then discuss the energy of a chemical system and the rate of reactions. After a brief introduction into the acid/bases concepts the lecture will provide an overview of organic chemistry to define classes of substances, functional groups and general reactivity. In addition, the four major classes of molecules that are involved in the chemistry of a living cell will be discussed, namely carbohydrates, lipids, amino acids and their polymers, proteins, as well as nucleic acids and their polymers, DNA and RNA. Finally, the metabolic pathways that convert energy within our body will be introduced summarizing the relation between catabolic and anabolic pathways.</p>		
Examination	written exam on 25.07.2019		
Recommended Reading	Crowe, J., & Bradshaw, T. (2014). Chemistry for the biosciences: the essential concepts. Oxford University Press. Book is available in the reading room: NT/Cro/2		

Global Health - Emerging Infectious Diseases			
Course Number	00LE62S-LAS-LS0022	Teaching Period	Block IV
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Life Sciences I or II, Specialization Option: Life Sciences I or II	Module(s) (StuPo 2015)	Advanced Life Sciences I, II or III Specialization Option: Life Sciences I or II
Open to Students	Year(s) 3-4	Max. Enrollment	20
Prerequisites	Cell Biology, Biochemistry (can be taken at the same time)		
Instructor(s)	Prof. Dr. Bettina Fries (visiting professor from Stony Brook University) (bettina.fries@stonybrookmedicine.edu)		
Format, Dates, Times and Rooms	01.07.- 12.07.2019 (two-week intensive course) Lecture/Seminar Mon, 14-18h, AU Reading Room Tue, 14-18 h, FMF 01009 Wed, 12-16 h, AU 01042 Thu, 14-18 h, AU Reading Room Fri, 08-12 h, KG 1142		
Course Description	<p>This is an intensive course by guest Prof. Fries during the first two weeks of July. Make sure the dates don't overlap with your other courses!</p> <p>The course will be a mix of lectures, reading-based discussions and discussions with experts brought in through video-calls.</p> <ol style="list-style-type: none"> 1. Introduction to basic concepts of Infectious diseases 2. Antimicrobial resistance 3. Foodborne and waterborne diseases 4. Vectorborne and zoonotic diseases 5. Vaccine development and use 6. Diseases of persons with impaired host defenses 7. Diseases of pregnant women and newborns 8. Diseases of travelers, immigrants, and refugees 9. How can new technology help fight emergence of infectious diseases 10. Health care policy 		
Remarks	Make sure the dates don't overlap with your other courses!		
Examination	Written exam on 12.07.2019		

3.5 Study Area: Multiple

Ecology - From Genetic Adaptations to Communities			
Course Number	00LE62S-LAS-LSEE0005	Teaching Period	Block IV
Study Area(s)	Earth and Environmental Sciences, Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Ecology Advanced Life Sciences I or II	Module(s) (StuPo 2015)	Ecology Advanced Life Sciences I, II or III,
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Volker Nehring (volker.nehring@biologie.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 8-12h Thu, 8-12h Rooms tba		
Course Description	<p>All biological processes are affected by ecological interactions, and so are we as humans, part of a complex global network. The course is designed to advance the students' understanding of how ecosystem changes affect us and vice versa. We will focus on different levels of biotic entities, from communities (community ecology, biodiversity, population dynamics, urban ecology) through interactions of individuals with their environment (sensory ecology, optimal foraging, social evolution, species interactions). We will also cover the fundamental evolutionary processes that underlie all patterns we observe in nature.</p> <p>The course will have a strong practical emphasis requiring students to discuss published research, but also to conduct and present their own experiments</p>		
Remarks	EES students have priority		

Environmental Psychology			
Course Number	00LE62S-LAS-GOEE0005	Teaching Period	Block IV
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II; Advanced Governance I and II	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II, Human and the Environment, Advanced Governance I and II
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Sebastian Gölz (sebastian.goelz@ise.fraunhofer.de)		
Format, Dates, Times and Rooms	Seminar and project Mon, 14-16h, AU 01065 Tue, 16-18h, Wilhelmstraße 26, R00006		
Course Description	<p>Human behaviour is a key factor for current global economic and ecological challenges. On the other hand, it is also a crucial resource which can be used to cope with these challenges. Environmental Psychology is an interdisciplinary field focusing on how human behavior and the physical environment interrelate. It is, for example, not sufficient to simply propose ways to solve global economic and ecological challenges. Substantial changes in people's behavior are also needed. This course will introduce the basic elements of Environmental psychology.</p> <p>In the first part of the course, students will study psychological theories and modelling (unit 1) along the topics of environmental awareness, climate change and sustainability. In the second part, students will become familiar with typical issues in applied fields of environmental psychology (unit 2) such as the attitudes-behavior gap, behavior in social dilemmas, and interventions and behavioral changes. As different technological innovations (e.g. e-mobility and renewable energies) promise improvement for ecological risks, the third part will focus on ways to combine environmental psychology with the domain of technology usage, acceptance and usability (unit 3). Practical will help the students to transfer new knowledge into their own small surveys and interventions. In the tutorials, selected topics will be presented by the students and discussed in depth.</p> <p>Upon successful completion of this module, you should be able to:</p> <ol style="list-style-type: none"> 1. Orient yourself among existing theories of environmental psychology. 2. Apply psychology theories and models to real-world settings. 3. Elaborate basic designs for environmental interventions. 4. Use environmental methodologies in complex transformation settings. 5. Present/discuss a selected topic and write a paper (short publication). 		
Examination	Submission of the final part of the examined material will be due on the 12.08.2019.		

4 Semester long Courses

4.1 Study Area: Core

Foundational Year: Dealing with Numerical Information			
Course Number	00LE62VS-LAS-CO0005	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Numerical Literacy	Module(s) (StuPo 2015)	Dealing with Numerical Information
Open to Students	Year(s) 1-(2)	Max. Enrollment	90
Prerequisites	none		
Instructor(s)	Dr. Sebastian Gehart (sebastian.gehart@ucf.uni-freiburg.de) Dr. Simon Büchner (simon.buechner@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	29.04.-22.07.2019 Lecture: Mon, 10-12h, KG 3042 Examination: 22.07. (10:00-12:00): Albertstraße 17, HS Anatomie Workgroups: WG1 (SB): Tue (10-12), KG 1032 Fri (8-10), KG 1140 WG2 (SG): Tue (10-12), KG 1034 Fri (8-10), KG 1236 WG3 (SB): Wed (10-12), KG 1032 Fri (10-12), KG 1136 WG4 (SG): Wed (10-12), KG 1019 Fri (10-12), BT 206		
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 quantitative data. Basic theoretical knowledge of probability theory and descriptive and inferential statistics are presented during lectures. and practiced in exercise tutorials. It is then placed in context and discussed in work groups (Tue/Wed) and practiced and applied in exercise and software tutorials (Fri) 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	Written exam on 22 July.		
Recommended Reading	Field, A., Miles, J., & Field, Z. (2012). <i>Discovering Statistics Using R</i> . Sage publications. (reading room: NT Fie 1)		

Foundational Year: Living Knowledge: An Introduction to Qualitative Research			
Course Number	00LE62V-LAS-CO0028	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Knowledge in Context	Module(s) (StuPo 2015)	Knowledge in Context
Open to Students	Year(s) 1-3	Max. Enrollment	90
Prerequisites	none		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>Lecture Wed, 14-16h, KG 3042</p> <p>Workgroups</p> <p>WG1: Thu, 16-18h, BT 106</p> <p>WG2: Thu, 16-18h Ph HS1</p> <p>WG3: Thu, 18-20h, Ph HS3</p> <p>WG4: Thu, 18-20h, Ph HS1</p> <p>WG5: Fri, 8-10h, AU 01 036a</p>		
Course Description	<p>This course introduces students to a broad consideration of knowledge in its historical, social, political and practical contexts. Drawing on work in the history, anthropology and sociology of knowledge, the course addresses knowledge production and circulation beyond academia, as well as knowledge transfers in and across professional fields, educational systems, regions, cultures, and knowledge regimes. It aims at fostering reflection about questions such as “What counts as knowledge, and who gets to decide? What has counted as knowledge in previous centuries? What is (or what was) the relationship between scientific knowledge and knowledge that is (was) not deemed scientific, as, for example, common sense knowledge, or the knowledge of non-academic professional fields, or knowledge produced and used by political entities?” It also fosters reflection about epistemic beliefs, or “personal epistemology”: That is, how humans (including ourselves) use, evaluate, cherish and question knowledge in their daily lives, how they relate emotionally to specific forms of knowledge, and how they deal with uncertainties.</p> <p>In addition to this focus on knowledge, this course also focuses on some basic aspects of academic/scientific work, such as research designs and methodologies. Crucially, it is designed to provide basic insights into, and first experiences with, qualitative methodologies (as complementary to quantitative methods, the basics of which are provided in Dealing With Numerical Information).</p>		
Remarks	LAS students should complete the module Knowledge in Context in their first year. The lecture and the workgroups are setup as two courses in HISinOne. Please register for the lecture and one workgroup.		
Examination	Presentation, Project Proposal and Portfolio - Final Assignment due 26.08.2019		
Recommended Reading	All required course readings will be available on ILIAS.		

Models across Disciplines			
Course Number	00LE62S-LAS-CO0048	Teaching Period	Semester (start on May 6)
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	The Challenge of Interdisciplinarity	Module(s) (StuPo 2015)	Research Design Across Disciplines
Open to Students	Year(s) 3-4	Max. Enrollment	20
Prerequisites	Open to students in year 3 and 4.		
Instructor(s)	Dr. Simon J. Büchner (buechner@ucf.uni-freiburg.de) PD Dr. Tobias Henschen (tobias.henschen@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar and guest lectures -- Course start: May 6 Mon, 18-20h, Ph HS2 Wed, 18-20h, Ph HS2		
Course Description	<p>Across the disciplines, scientific models are of central importance. We use computational models to predict the climate for some future period; the ideal gas model to explain certain thermodynamic processes of gases; the double helix model to describe DNA molecules; dynamic-stochastic general-equilibrium models to justify economic policy decisions and so on. The immense importance of scientific models raises questions that do not necessarily surface in scientific practice but can be quite perplexing. What is a model? What does it represent? How does it relate to theory? What purpose does it serve? Is it true or false? Or does it express a hypothesis that is true or false? If it (or the hypothesis it expresses) is false: how can we use it for explanatory, predictive, or interventional purposes? And so on. The course is essentially supposed to develop possible answers to these questions. In the first part (leading up to Pentecost), students will analyze research articles that pose and aim to respond to some of these questions. In the second part, researchers from the University of Freiburg will give lectures in which they discuss these questions in the context of a model that is of central importance to their discipline.</p>		
Remarks	Open to LAS students of all majors.		
Examination	PL: Presentation during the course and research proposal or essay due on 17.08.2019 SL: Regular and active attendance and "teasing questions" for each reading.		
Recommended Reading	Morgan, M. and M. Morrison. <i>Models as Mediators. Perspectives on Natural and Social Sciences</i> . Cambridge: CUP, 1999. M. Suárez (ed.). <i>Fictions in Science. Philosophical Essays on Modeling and Idealization</i> . New York City: Routledge, 2009.		

Science, Technology and Society			
Course Number	00LE62S-LAS-CO0036	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Knowledge in Kontext	Module(s) (StuPo 2015)	Science in Context
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Nicholas Buchanan (nicholas.buchanan@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 12-14h, AU 01036a Wed, 12-14h, AU 01036a		
Course Description	<p>Science and technology are defining characteristics of our world, all too easy to take for granted. But how do people make scientific knowledge, how do they develop technologies? What impacts do these have on our lives and the lives of others, and in what ways do human choices shape science and technology?</p> <p>This course explores science and technology not as bodies of knowledge and collections of artifacts, but rather as social practices and processes that happen in particular times and places, among particular cultures of people. In it, we will examine the interrelationships 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 "schools" within science and technology studies. Instead, discussions will explore how STS can help provide a deeper understanding of taken-for-granted categories in public and academic discourse, such as "science," "technology," "life," "death," "health," "disease," "the body," "the environment," "experts," and "lay-people." 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.</p> <p>The course consists of readings and seminar discussions, along side several small group projects.</p>		
Remarks	This course may be taken by students who could not participate in Science in Context in winter semester 2018-19.		
Examination	Portfolio, due 4 weeks after last workgroup session		
Recommended Reading	Sismondo, Sergio (2010): <i>An Introduction to STS</i> . Chichester: Wiley-Blackwell.		

4.2 Study Area: Culture and History

Foundational Year: Introduction to Culture and History			
Course Number	00LE62V-LAS-CH0001, 00LE62S-LAS-CH0001	Teaching Period	Semester
Study Area(s)	Culture and History, Electives	Credit Points	6
Module(s) (StuPo 2012)	---	Module(s) (StuPo 2015)	Introduction to Culture and History
Open to Stu- dents	Year(s) 1-(2)	Max. Enroll- ment	60
Prerequisites	none		
Instructor(s)	Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>Course start: 29.04.2019</p> <p>Lecture Mon, 14-16h, KG 3042</p> <p>Workgroups</p> <p>WG1: WG2: Thu, 8-10h, KG 1140 Thu, 10-12h, KG 1140</p> <p>WG3: Thu, 14-16h, AU 01036a</p>		
Course Description	<p>“Culture and History” is an interdisciplinary approach to the humanities, the disciplines which produce systematic knowledge about the artifacts, practices, and events of human agency. Typical objects of study and research in the humanities include texts (literary, religious, philosophical, among others), visual culture (works of art, films, etc.), as well as customs or rituals. The research methods of the humanities are largely qualitative in nature. In particular, humanists engage in interpretation: the attempt to extract meaning from or attribute meaning to cultural objects and their histories.</p> <p>We will approach the humanities as fundamentally interpretive sciences whose task is to sift, process, analyze, and understand human-made things in the world. Through careful analysis of objects of study, comparative synthesis with already acquired knowledge, and rational argumentation based in evidence, the humanist researcher seeks to produce interpretations or explanations of meaning. This holds true whether the objects of study are from the deep past or from the present, whether they are relatively static or ever-changing, whether they are familiar or quite alien to the researcher.</p> <p>We will work with typical cultural objects and learn the methods appropriate for interpreting them. We will also read and discuss important, classic works from specific humanistic fields (literary studies, visual art studies, anthropology, cultural studies). By maintaining a tension between the theory and practice of the humanities, students will learn to produce compelling interpretations of culture and history.</p>		
Examination	22.07.2019		

History as a Topic of Academic Inquiry			
Course Number	00LE62S-LAS-CH0002	Teaching Period	Semester
Study Area(s)	Culture and History only (not open as Electives)	Credit Points	6
Module(s) (StuPo 2012)	History as a Topic of Academic Inquiry	Module(s) (StuPo 2015)	History as a Topic of Academic Inquiry
Open to Students	Year(s) 2-4	Max. Enrollment	14 LAS 6 MKW
Prerequisites	Introductory to Culture and History		
Instructor(s)	Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, AU 01065 Wed, 10-12h, AU 01065		
Course Description	<p>All human groups are defined in part through their engagement with the past, with their history. The past is a source of identity production, of ideological legitimation, and of ethical/legal/political justification for action in the present and future. Through the informal mechanisms of individual and collective memory and through the formal memorialization of states, churches and other authorities, the past is selectively appropriated for social, political, and cultural needs.</p> <p>Some human groups have also dedicated effort to more systematic study of the past, to historiography as methodologically rigorous research that results in written texts about the past. Amongst the ancient Greeks, Herodotus and Thucydides initiated a genre of writing called "historia", by which they meant "inquiry" or "investigation," an accounting of the past using verifiable information. Since then, ancient Roman historians, the chroniclers of monarchical dynasties around the world, and other expert groups have written texts that served as authoritative knowledge of the past in various contexts.</p> <p>In the modern world this specialized field of study is undertaken by a professionalized academic discipline: History. Beginning in the 19th century, especially in Germany, the scholarly or scientific (wissenschaftlich) study of the past coalesced around the attempt to provide reliable and verifiable knowledge about the past according to the standards of logic, proof, and secular ontology that guided other fields of inquiry. Since then, the academic discipline of History has spread around the world and professional historians enjoy considerable authority in deciding how the past will be understood and appropriated by others: through their books, through their guidance of school curricula, and through the social status as experts of the past.</p> <p>The primary goal of this course is to explore modern History understood as methodologically rigorous research and judiciously selective reconstruction of the past in writing. The course is designed to develop students' specifically theoretical thinking about history and historiography, that is, in reference to problems and questions in historical research that cannot be resolved empirically or methodologically.</p>		
Examination	28.07.2019		

Imagined Spaces: Self and Place in the 21st Century			
Course Number	00LE62S-LAS-CH0049	Teaching Period	Semester
Study Area(s)	Culture and History, Electives	Credit Points	6
Module(s) (StuPo 2012)	Contemporary Art, Literature, Aesthetics, or Music, Advanced Culture and History I or II	Module(s) (StuPo 2015)	Art, Literature, Aesthetics, or Music, Advanced Culture and History I, II or III
Open to Students	Year(s) 2-4	Max. Enrollment	17 LAS 3 MKW
Prerequisites	Introductory to Culture and History		
Instructor(s)	Tanja Kapp (tanja.kapp@neuesreisen.uni-freiburg.de) Julia Ditter (julia.ditter@anglistik.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 8-10h, AU 01036a Wed, 8-10h, AU 01036a		
Course Description	<p>Space and place have become key terms used to understand culture and cultural history. At the time of a growing global environmental crisis and with the ongoing dissolution of borders, it is vital that we critically reflect on our engagement with the places we inhabit. Current cultural theory does this by treating space as dynamic and looking at the interrelation between its local, national, global and planetary dimensions.</p> <p>This course aims to look at the ways in which these conceptualisations of space are reflected in twenty-first century literature and film. We will give an overview of the most important theories used to explain literary representations of space and develop methods for analysing novels, short stories, comics and films from various cultural context in the English-speaking world with regard to space. This will include looking at texts from genres that enjoy a huge popularity at the moment such as New Nature Writing, Travel Writing, Literary Psychogeography and Afrofuturism. Emphasising the nexus of space in our literary inquiry will enable us to discover the spatial dimension of identity categories such as gender, race, sexuality, nationality and cosmopolitanism as well as the human/non-human boundary.</p> <p>Based on our reading, students will develop practice-based projects for becoming more aware of the spaces they inhabit and critically reflecting on the practices that structure them (for example by walking the city and employing techniques of 'counter-mapping'). Moreover, they will demonstrate their skills in literary analysis in two short essays which will make up their grades.</p>		
Remarks	<p>This is a reading-intensive seminar with some longer works that cannot be distributed electronically in full.</p> <p>Students should buy any editions of the following books:</p> <p>Zadie Smith, <i>N/W</i> (2013) Peter Ackroyd, <i>The Queer City</i> (2018) Nnedi Okorafor, <i>Lagoon</i> (2014) Amitav Ghosh, <i>The Hungry Tide</i> (2005)</p>		
Examination	27.07.2019		
Recommended Reading	A complete reading list will be made available on ILIAS and our website at the beginning of February. For more details please go to www.imaginedspacesC21.wordpress.com		

Understanding the Causes of Brexit: Britain and Europe Since 1945			
Course Number	00LE62S-LAS-CH0050	Teaching Period	Semester
Study Area(s)	Culture and History, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Culture, Specialization Option: History	Module(s) (StuPo 2015)	Specialization Option Culture and History I or II
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introductory to Culture and History		
Instructor(s)	Prof. Dr. Christian Mair (christian.mair@anglistik.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 12-14h, AU 01036a Thu, 12-14h, AU 01036a		
Course Description	<p>After decades of more or less intensive negotiations, the United Kingdom joined the European Union in 1973. Two years later, in 1975, this decision was impressively confirmed by a popular referendum, which yielded clear majorities for EU membership in all major regions of the country. In 2016 the contrary results of another referendum set the United Kingdom on the road to withdrawal from the European Union. In contrast to 1975, the 2016 referendum revealed rifts within the United Kingdom, with Scotland, Northern Ireland and London voting to stay in the Union, and the rest of England and Wales voting "Leave."</p> <p>While it is definitely too early to assess the long-term outcomes of this process, "Brexit" is a useful starting point to explore the major sociocultural currents which have shaped British culture(s) and identities since the end of World War II. In a framework defined by Cultural Studies and (Critical) Discourse Analysis we will explore the following three themes to gain a deeper understanding of the sociocultural landscape of contemporary Britain:</p> <p>(a) "Great Britain" vs "Little England": regional and national identity in the UK (b) After the disintegration of the British Empire: postcolonial adjustments in Britain and Europe (c) London: a multi-ethnic and multicultural global city.</p> <p>In line with the requirements of the "Specialisation Option," emphasis will be placed on developing your research skills. These include the theoretically informed qualitative analysis of data, documents and other source materials, which has been the traditional standard in cultural studies and discourse analysis. Additionally, some of our work will feature more recent quantitative approaches using large amounts of digitally available data, enabling you to get an insight into the emerging field of the Digital Humanities. During the introductory phase of the class (weeks 1 & 2) we will agree on a topic which you will present on in class. Before you present, you will submit an annotated bibliography and presentation outline to me for critical discussion. After your presentation you will produce a 10-page research essay.</p>		
Examination	28.07.2019		

4.3 Study Area: Earth and Environmental Sciences

Georesources			
Course Number	00LE62VS-LAS-GOEE0001	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Earth Sciences	Module(s) (StuPo 2015)	Earth Sciences
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Malte Junge (malte.junge@minpet.uni-freiburg.de) Dr. Katerina Schlöglova (katerina.schloeglova@minpet.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar and practical Tue, 12-14h, Stefan Maier Str 26, ÜR 44 (00 024) and ÜR 46 (00 022) Thu, 12-14h, Stefan Maier Str 26, ÜR 44 (00 024) and ÜR 46 (00 022)		
Course Description	This class will bring basic concepts of the Earth system sciences. It will present the students with research methods used in Earth sciences, explore the breadth of geology and its disciplines, explain connections with other science disciplines, and evoke a curiosity about the Earth – what it's made of, cycle of geologic materials, and interplay of its dynamic processes through time. Emphasis will be given to interactive and practical hands-on exercises involving minerals and rocks, microscopy practicals, and discussions with mineral industry professional.		
Remarks	EES students have priority		
Recommended Reading	General geology: McGeary/Plummer/Carlson: <i>Physical Geology, Earth Revealed</i> , 4th edition or later Grotzinger/Jordan: <i>Understanding Earth</i> , 7th edition Earle: <i>Physical Geology</i> (open access) Mineralogy, petrology, mineral resources: Winter: <i>Principles of igneous and metamorphic petrology</i> , 1st or 2nd edition Robb: <i>Introduction to ore-forming processes</i> , 1st edition		

Natural Heritage Interpretation			
Course Number	00LE62S-LAS-EE0007	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Observing Nature	Module(s) (StuPo 2015)	Observing Nature
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Sabine Sané, (sabine.sane@ucf.uni-freiburg.de) Dr. Anna Chatel		
Format, Dates, Times and Rooms	Seminar/Practical Fri, 10.05., 8-18h Mundenhof or Feldberg (whole day – exact time tba) Fri, 17.05., 9-17h, KG 1227 Fri, 24.05., 8-18h, Kandel (whole day – exact time tba) Fri, 07.06., 9-13h, KG 1142 Fri, 28.06., 8-18h Mundenhof or Feldberg (whole day – exact time tba) Fri, 05.07., 9-13h, AU 01042 Fri, 19.07., 9-17h, Ph HS 1		
Course Description	<p>To preserve the value of nature, it is important to first observe nature and then to communicate it's unique value to others.</p> <p>In this course we will observe nature by going out into the field. The communication method we will then use is called Heritage Interpretation. It offers a wide potential for the successful mediation of scientific knowledge for various target groups in national parks, science centers, museums, and public sites.</p> <p>We will study theoretical background on heritage interpretation, read important articles and research in the field of interpretation, and present their findings. We will discuss and evaluate best practices in the surroundings of Freiburg (e.g. Mundenhof, Feldberg, and Kandel).</p> <p>Finally, in groupwork you will create your own interpretive project at a natural site in form of a personal interpretation, audiotour, or app by using a literature survey, expert interviews, and field work.</p> <p>At the end of the course groups will present their interpretive offer in the field.</p>		
Remarks	EES students have priority, Costs: You will need to pay for public transportation to the field sites if you do not have a semester ticket (approx. 10-15 Euro).		
Examination	19.07.2019		

Resilienz und Kollaps ökologisch-ökonomischer Systeme			
Course Number	00LE62S-LAS-EE0014	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or I	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II, Human and the Environment
Open to Students	Year(s) 2-4	Max. Enrollment	7
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Prof. Dr. Staefan Baumgärtner (stefan.baumgaertner@ere.uni-freiburg.de) Yuki Henselek, M.Sc. (yuki.henselek@ere.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar 30.04., 13:15–16:30h 07.05., 13:15–14h 18.07., 14h - 20. 7 13h (Block) Rooms tba		
Course Description	<p>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?</p> <p>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?</p>		
Remarks	EES students have priority, This course is offered in cooperation with the faculty of Environment and Natural resources, the classroom language is German. Please register via email to sabine.sane@ucf.uni-freiburg.de .		
Examination	<p>Fristen:</p> <p>07.05.: verbindliche Themenzusage</p> <p>- 02.06.: erste Kontaktaufnahme mit der Betreuerin unter Vorlage eines fundierten Gliederungsentwurfs</p> <p>- 30.06.: Abgabe einer ersten vollständigen Version des Referats (oder der schriftlichen Ausarbeitung), die erkennen lässt, dass die Gesamtleistung mit mindestens der Note „ausreichend“ bewertet werden kann</p> <p>- 15.08.: Abgabe der Endversion der schriftlichen Ausarbeitung</p>		
Recommended Reading	<p>R. Biggs, M. Schlüter and M.L. Schoon (2015), <i>Principles for Building Resilience. Sustaining Ecosystem Services in Social-Ecological Systems</i>, Cambridge, UK: Cambridge University Press</p> <p>W.A. Brock, K.-G. Mäler and C. Perrings (2001), <i>Resilience and sustainability: the</i></p>		

economic analysis of nonlinear dynamic systems, in L.H. Gunderson and C.S. Holling (eds), *Panarchy. Understanding Transformations in Human and Natural Systems*, Island Press, Washington DC, pp. 261–289

Resilience Alliance, *Key Concepts*, available at <http://www.resalliance.org/key-concepts>

B. Walker, C.S. Holling, S. Carpenter and A. Kinzig (2004), Resilience, adaptability and transformability in social-ecological systems, *Ecology and Society* 9(2): 5 (www.ecologyandsociety.org/vol9/iss2/art5/)

B. Walker and D. Salt (2006), *Resilience Thinking. Sustaining Ecosystems and People in a Changing World*, Washington DC: Island Press

The Earth in the Universe			
Course Number	00LE62S-LAS-EE0006	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Evolution and Dynamics of the Planetary System	Module(s) (StuPo 2015)	Evolution and Dynamics of the Planetary System
Open to Students	Year(s)	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Rolf Schlichenmaier (schliche@kis.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 16-18h, Ph HS2 Wed, 16-18h, Ph HS1 Excursion to observatory Schauinsland weekend-tba		
Course Description	<p>In this course, students will get an overview on the astrophysical perspectives of life on Earth complemented by an insight into current research and hands-on experience in observation methods. The basic understanding of our universe (first part) will set the scene to review how the Earth is embedded in the universe and in our solar system and how this influences natural processes and phenomena on Earth (second part).</p> <p>After reviewing the history of mankind's view of the world, we will learn about the observational findings that led to the Big Bang Theory, and reflect the arguments why this theory might not be the final 'truth'. We will further deal with evolutionary tracks of stars (brown dwarfs, main sequence stars, red giant, supernovae, white dwarfs, neutron stars, black holes).</p> <p>The second part focuses on the Sun, being the major external influence to the Earth, and on our planets orbiting the Sun. This includes the processes of planet and star formation, properties of planets and other objects in our Solar system, the solar structure and its atmosphere. The generation of magnetic fields in the solar interior leads to magnetic phenomena at the solar 'surface' that greatly influence processes and life on Earth. We will discuss interactions between solar activity and Earth in terms of observable phenomena, space weather and solar influences on the Earth's climate including findings from current research.</p> <p>In addition to the lecture contents, practical classes are method-oriented and will deal with:</p> <ul style="list-style-type: none"> • Experiment to infer the distance between the Earth and the Sun (Astronomical Unit) by studying the characteristics of the solar rotation using public satellite data, and by means of a pinhole camera ('camera obscura') • Data analysis of spectroscopic data to study the plasma flow field on the solar surface: granulation & sunspots. • During a 1,5 day excursion to the solar observatory on the Schauinsland mountain (1240 m above sea level) operated by Kiepenheuer Institute of Solar Physics (www.kis.uni-freiburg.de) students will observe the sun during the day and stars at night by applying observation techniques learned in class and they will gather and analyze their own experimental data. 		

Urban Environmental Planning in Response to Climate Change			
Course Number	00LE62S-LAS-EE0017	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II, Human and the Environment
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Arian Mahzouni (arian.mahzouni@abe.kth.se)		
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, KG 1134 Wed, 10-12h, KG 1134		
Course Description	<p>In response to climate change and resource depletion, there is a global challenge to make our cities more sustainable and resilient. The solutions to current environmental challenges require integrated approaches across many academic disciplines. This course will draw on the concept and principles of 'urban environmental planning', which aims to decreasing human induced environmental problems in our cities by integrating environmentally sound practices in urban planning. It aims to provide students with extensive knowledge on various planning policies and practices of environmental protection from European cities (including Freiburg) and cities of the Global South to make our cities more sustainable and resilient.</p> <p>Course outcomes</p> <p>After the completion of this course students would be able to:</p> <ul style="list-style-type: none"> • Understand the pathways and dynamics of energy transition in the built environment (including housing, mobility, energy supply and other urban infrastructures) • Understand the opportunities and challenges of taking an interdisciplinary approach across the fields of urban planning and environmental sciences to better comprehend the complexity of 'urban energy transition' • Improve their analytical thinking skills in mapping the potential conflicts of interest between different stakeholders and the ability to identify synergies and trade-offs among key elements of urban sustainability e.g., environmental, social, economic. 		
Examination	Written exam on 17.07.		

4.4 Study Area: Governance

Comparative Politics			
Course Number	00LE62S-LAS-GO0028	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Comparative Government, Advanced Governance I and II, Elective module (Joker)	Module(s) (StuPo 2015)	Political Science, Advanced Governance I or II, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, AU 01036a Wed, 10-12h, AU 01036a		
Course Description	<p>In this course we learn about political systems around the world from a comparative political science perspective.</p> <p>The course is organized into four parts. In the first part of the course we discuss the theoretical and empirical definitions of democracy. What is democracy? How can democracy be measured?</p> <p>The second part of the course focuses on the authoritarian regimes. In particular, we study differences between the authoritarian countries regarding the ruling elite, co-optation and repression.</p> <p>In the third part of the course we study democratic countries and discuss, for example, the horizontal and vertical separation of powers, electoral systems, political parties and party systems.</p> <p>In the fourth part of the course we briefly discuss the methods of comparative political science.</p> <p>The course has a strong emphasis on learning-by-doing, and the students will learn to use comparative datasets, read codebooks and conduct simple comparative studies.</p>		
Remarks	<p>No priority for senior students in this course!</p> <p>Please contact the course instructor by email in case you would like to obtain the full course syllabus before you register to the course.</p>		
Examination	Submission of the final part of the examined material will be due on the 2.8.2019.		
Recommended Reading	<p>Lijphart, Arend (2012): <i>Patterns of Democracy</i>. Yale University Press: New Haven/London.</p> <p>Geddes, Barbara (1999): "What do we know about democratization after twenty years?" <i>Annual Review of Political Science</i> 2: 115-44.</p>		

Human Rights in Europe			
Course Number	00LE62S-LAS-GO0047	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Governance I, II or III, Elective module (Joker)	Module(s) (StuPo 2015)	Regional Governance, Advanced Governance I, II or III, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance, preferably – Principles of Law or a similar course		
Instructor(s)	Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 10-12h, KG 1142 Wed, 10-12h, KG 1140		
Course Description	<p>The Human Rights Law in Europe course is an opportunity for students to develop knowledge and understanding of fundamental principles of Human Rights Law as subject matter and as part of the applicable relevant legal proceedings. The relevant topics that will be addressed in the course are the European Human Rights Law framework of effective enforcement, the right to life, the prohibition of torture, inhuman and degrading treatment and punishment, the right to a fair trial, the rights to liberty, the right to private life, the right to privacy and data collection, the freedom of expression and association, the right to effective remedy among others. Other contemporary topics and challenges to the human rights regime in Europe and the EU will be covered too. The course will be based on problem-based learning preparations for proceedings before the European Court of Human Rights and the Court of Justice of the EU.</p> <p>The participants will gain skills to analyze fact problem sets and identify and apply the relevant legal provisions to various case scenarios. Emphasis is put on developing skills of independent legal research and oral and written advocacy. The first half of the course will be dedicated to understanding the main legal framework as regards human rights protections under the ECHR and EU law. It may involve drafting exercises and completion of the written assignments. In the second part of the course, preparatory meetings will be conducted on a regular basis to discuss and analyze the legal problems and case scenarios and to adequately prepare for the relevant assignments. Students will be expected to actively participate in presentations at this stage of the course.</p> <p>The purpose of the course is to avail the students to develop their legal, analytical and argumentative skills. Students will be expected to have done the reading in advance and to show initiative on the issues we will be dealing with. Group activities and presentations are to be expected as the course will be highly interactive.</p> <p>Form of assessment: The final grade will be based on the written position paper/memorandum, and/or case note, and/or presentations/pleadings.</p>		
Examination	Submission of the final part of the examined material on 27.08.2019.		
Recommended Reading	Harris, O'Boyle and Warbrick (eds.): <i>Law of the European Convention on Human Rights</i> , (3rd or 4th edition) Oxford University Press.		

International Trade			
Course Number	00LE62S-LAS-GO0048	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Economics, Advanced Governance I or II, Elective module (Joker)	Module(s) (StuPo 2015)	Economics, Advanced Governance I or II, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	PD Dr. Tobias Henschen (tobias.henschen@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 14-16h, AU 01036a Tue, 14-16h, AU 01036a		
Course Description	<p>International trade occurs when firms or consumers in one country purchase goods or services that are produced in other countries. It occurs for a number of reasons, the most obvious being that some commodities cannot be produced in all places. Bananas, for instance, can be grown only in locations with specific climate conditions; biotechnology products can be produced only in places where workers and firms have the necessary capabilities or expertise and so on. Another reason is that many consumers value variety: that some Europeans, for instance, prefer South Korean cars to European ones and vice versa. A final reason is that some countries are more efficient than others at producing certain types of commodities.</p> <p>If there are so many good reasons for trade, why do so many people complain about the impacts of trade? Why does Donald Trump insist that the only way to make the US "great again" is to renegotiate US trade deals with foreign partners? Why do many Europeans worry that the gains of foreign trade are unevenly distributed across workers? Why do UK citizens vote to exit the European Union after decades of trade expansion with their continental neighbors? Why do many people seem to protest international trade agreements as a matter of principle?</p> <p>There are several answers to these questions. First, even though international trade generates economic gains, these gains can be distributed in unfair proportions. Second, the benefits to trade often come with costs. Whenever a high-wage economy increases its imports from low-wage economies, the resulting decrease in prices will benefit the high-wage economy as a whole but at the same time threaten its workers with lower wages and job losses. Third, by fueling growth, trade might be causally relevant to environmental pollution and climate change. Finally, some people may fail to understand the complexity of the production networks that nowadays link many countries.</p> <p>The course aims to investigate the reasons and impacts of international trade by adopting an interdisciplinary perspective, i.e. by acknowledging the economic, political, legal, cultural, and ethical dimensions of such an investigation. The course will take classical international trade theory and policy as point of departure and then analyze the growth of the global economy through the activities of transnational corporations, the governance of trade (in the shape of various trade agreements), the connections between trade and development, and the impacts of trade on labor and the environment.</p>		
Remarks	Governance students who have not completed the module Economics yet, should take this course.		
Examination	Submission of the final part of the examined material (teasing questions, presentation, essay) will be due on 02.08.2019.		
Recommended Reading	Poon, J. and D. L. Rigby (2017): <i>International Trade. The Basics</i> . London and New York: Routledge.		

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 HS Hörsaal

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 FMF Freiburger Materialforschungszentrum
 SR Seminar Room

Justice or Peace? International Criminal Law and Transitional Justice in Post-Conflict Societies			
Course Number	00LE62S-LAS-GO0050	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Politics, Law and Administration, Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option I and II, Elective module (Joker)
Open to Students	Year(s) 3-4	Max. Enrollment	18
Prerequisites	Introduction to Governance, highly preferably - Principles of Law or another course for the Law module; otherwise - background in sociology or history		
Instructor(s)	Clara Rigoni, M.A. (c.rigoni@mpicc.de)		
Format, Dates, Times and Rooms	Seminar Mon, 16-18h, Ph HS1 Wed, 16-18h, Ph HS2		
Course Description	<p>This seminar will address the “peace versus justice debate” in international criminal justice. Often, in post-conflict societies, justice (punishment of perpetrators) and peace (reconciliation and restoration) cannot be obtained at the same time. The course will retrace this debate by analyzing both legal and political instruments used to respond to gross human rights violations at the international and national level.</p> <p>We will trace the origins and development of the current international system of criminal courts and tribunals, starting from the International Military Tribunal in Nuremberg and the International Military Tribunal for the Far East in Tokyo, and including two ad hoc tribunals established after the end of the cold war - ICTY and ICTR. We will learn about the drafting and adoption of the Rome Statute, the establishment, structure and functioning of the International Criminal Court (ICC) and the international crimes prosecuted under its Statute (genocide, crimes against humanity, war crimes, crime of aggression). Of particular interest are also experimental hybrid courts, e.g. in East Timor, Sierra Leone, Iraq and the Extraordinary Chambers in Cambodia.</p> <p>We will examine non-prosecutorial transitional justice measures aimed at the stabilization and democratization of post-conflict and post-authoritarian societies, such as truth and reconciliation commissions (like the South African one), apologies, and amnesties. We will pay particular attention to the focus of international criminal justice on the protection of victims, truth seeking, reparation and reconciliation rather than deterrence and punishment.</p> <p>We will analyze country case studies (from Europe, Africa, Asia and Latin America) from a historical, legal and political perspective to understand the interaction between legal and political instruments and the complementarity of national and international measures.</p>		
Examination	<p>Pass/ fail requirements: course attendance and active participation in class.</p> <p>Examination: Oral presentations in class + final exam/paper (final exam date July 24th, 2019).</p>		
Recommended Reading	<p>Quinn Joanna (2016). “The Development of Transitional Justice” in Cheryl Lawther, Dov Jacobs and Luke Moffett (eds.), <i>Research Handbook on Transitional Justice</i>, Cheltenham: Edward Elgar, access at https://www.elgaronline.com/view/9781781955307.00008.xml</p>		

Methods of Legal interpretation and Research			
Course Number	00LE62S-LAS-GO0049	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Qualitative and Quantitative Methods, Advanced Governance III, Specialization Option: Politics, Law and Administration, Elective module (Joker)	Module(s) (StuPo 2015)	Qualitative and Quantitative Methods, Advanced Governance III, Specialization Option I and II, Elective module (Joker)
Open to Students	Year(s) 3-4	Max. Enrollment	20
Prerequisites	Introduction to Governance, highly preferably: Principles of Law or another course for the Law module		
Instructor(s)	Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de) Clara Rigoni, M.A. (c.rigoni@mpicc.de)		
Format, Dates, Times and Rooms	Seminar Tue, 12-14h, AU 01065 Thu, 12-14h, AU 01065		
Course Description	<p>When treaties or other legal documents use terms but do not provide further explicit guidance as to what is meant by the relevant provisions, the role of interpretation is crucial for legal actors to understand what the meaning of the law is. This course provides a general introduction to fundamental and cross-cutting techniques and methods of legal research and interpretation. The task of judges, diplomats, and lawyers is inevitably intertwined with interpreting the law, i.e. attributing meaning to terms with binding character. The first part of the course focuses on understanding the process of assigning meaning to texts such as defining what legal terms mean and determining rights and obligations. Students will analyze the logic, structure, applicability, and language of legal methods of interpretation. An overview of the object of interpretation of legal texts, specifically in international law, is provided as well as an examination of the interpretative communities. The core of the first part of the course deals with rules and methods of interpretation such as formalistic, textualist, evolving or dynamic interpretation. More cross-cutting topics of legal methodology such as hermeneutics, cognitive frames of interpretation among others are examined too. Some theoretical background about international law may be introduced.</p> <p>The second part of the course focuses on qualitative methods used in socio-legal empirical research. The course introduces qualitative research, its origins, and the areas and aims for which this type of methodology appears more suitable. Students will be guided through the design of a research proposal, from the definition of the research question to the presentation of the findings. Topics drawn from current academic debates will be used as an example to design proposals. Several strategies of inquiry in qualitative research will be presented, such as ethnography, grounded theory and, in particular, case studies. The course will then give an overview of different methods of data collection, such as participant observation, surveys, and especially interviews. Sampling procedures and access to the field will be discussed; students will be required to develop a questionnaire based on the identified research question(s) and to test this questionnaire in class. The final part of the course will be devoted to the analysis of the data collected (qualitative content analysis) and the presentation of the findings. Here the functioning of software for data analysis will be illustrated as well as most common techniques used to present the results (including comparison). Of utmost importance are issues of validity, generalization and ethics that will be discussed in the course.</p>		

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Remarks	Some Tuesday or Thursday sessions may be rescheduled in the format of workshops on different days. The course may include a visit to the Federal Constitutional Court in Karlsruhe (TBC)
Recommended Reading	A. Bianchi et al., <i>Interpretation in International Law</i> (1 st ed, OUP 2018)

Privacy and Surveillance as Critical Governance Challenges: A Participatory Course			
Course Number	00LE62S-LAS-GO0013	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Theoretical Foundations and Hermeneutical Methods, Advanced Governance I or II, Elective module (Joker)	Module(s) (StuPo 2015)	Theoretical and Philosophical Foundations of the Social and Political Sciences, Advanced Governance I or II, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Elisa Orrù (elisa.orrù@philosophie.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 12-14h, Ph HS3 Thu, 12-14h, Ph HS3		
Course Description	<p>In his famous writing "What is Enlightenment?", Foucault identifies the spirit of modernity in the attitude of "being at the frontiers". At the core of this critical attitude is the following question: "In what is given to us as universal, necessary, obligatory, what place is occupied by whatever is singular, contingent, and the product of arbitrary constraints?" Modern philosophy consists in questioning what is seen as obvious and universal, and in understanding to what extent this "given" is contingent and historical.</p> <p>This form of critique entails practical significance: recognising given practices and values as contingent opens up the possibility of their transformation. Inspired by this intuition, we will use dystopian novels as a way of thinking about worlds in which other values and practices than ours are seen as obvious and necessary. This will allow us to contrast them to our "givens" and thus gain a critical distance on current debates and practices.</p> <p>The protection of privacy is a key aspect of contemporary governance, as surveillance practices are spreading. We will explore the meaning of privacy, its significance for political life and the consequences of the deprivation of privacy. The course will develop around the following thematic clusters: 1) the meaning of privacy; 2) privacy and governance; 3) surveillance; 4) total domination; 5) current EU practice.</p> <p>In the first part of the course, we will set the foundations by focusing on the readings: in classes, we will reconstruct the main theses of the readings interactively and we will discuss them. In the second part of the course, centered around presentations, students will develop their own research path, based on part 1 and focusing on contemporary issues. The presentations can be used as a basis for the final paper.</p>		
Remarks	<p>Full course description is available on the Governance Wiki (main page).</p> <p>Between the two parts of the course there will be a long break (around 3 weeks in the second half of June) to allow students to prepare for the second part of the seminar and to read one of the suggested dystopian novels, including George Orwell's <i>Nineteen Eighty-Four</i> (1949), Margaret Atwood's <i>The Handmaid's Tale</i> (1985) and Dave Eggers' <i>The Circle</i> (2013).</p>		
Examination	<p>Ungraded: active and regular attendance to classes, preparation of the readings beforehand and small oral and/or written assignments during the course. Oral presentation of own research during the second part of the course.</p> <p>Graded: final research paper, 30.08.2019 (for students who will need their grade in August, an earlier submission deadline will be agreed).</p>		
Recommended Reading	Foucault, Michel. "What is Enlightenment?" In: <i>The Foucault Reader</i> , by P. Rabinow, 32-50. Pantheon Books, 1984		

Religion and the State in the Middle East			
Course Number	00LE62S-LAS-GO0003	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Governance I or II, Elective module (Joker)	Module(s) (StuPo 2015)	Regional Governance, Advanced Governance I or II, Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Simon Fuchs (simon.w.fuchs@orient.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Wed, 12-14h, KG 1140 Fri, 12-14h, KG 1140		
Course Description	<p>The Middle East continues to frustrate those who question the region's exceptionalism. Political Islam, sectarianism, and the authoritarian fallout of the Arab Spring remind us on a daily basis that the relationship between religion and the state is a particularly fraught one from North Africa to Iran. In this seminar, we will first engage with theoretical literature on the subject in order to get a better conceptual handle on issues such as religious freedom, the secular nation state, and the Islamic revival since the 1970s. In the first weeks of the course, we will think about the legacy of the Ottoman Empire, colonial contexts, and the emergence of independent states in the MENA region. Once this groundwork is laid, we will move on to more topical sessions in order to discuss the role of religious institutions, religion in the public sphere, the positions of minorities, and the implications of efforts to "Islamize" society. In a third block, we will delve into the developments of the Arab Spring and its aftermath in Tunisia, Egypt, Syria, and Yemen.</p> <p>Several questions will guide our inquiry throughout the semester:</p> <ul style="list-style-type: none"> • Who speaks for Islam in the MENA region and how have conceptions of authority shifted over time? • To what extent and why has authoritarian secularism "failed" in the Middle East? • Do we see developments among Islamist parties that would render these actors analogous to Christian Democratic parties in Europe? • What role do transnational connections play for the current state-religion relationship in the region with Saudi Arabia and Iran being two influential players in particular? <p>For this seminar, we will draw on literature from a wide range of disciplines, such as Islamic Studies, Political Science, Anthropology, and Sociology. Participants shall be empowered to reach a deeper understanding of the role of religion in public discourse and politics in the Middle East. Concrete case studies and conceptual discussions shall enable the students to critically examine the supposed unique role of religion in the MENA region.</p> <p>The course will be taught as an interactive seminar with presentations, group work, and discussions.</p> <p>Students are expected to co-design one session of our course (that is, 10 sessions will each be co-designed by a pair of students and instructor; the assessment is based on a session plan and materials), to submit four short response papers, and to write a final paper of 3500 words.</p>		
Examination	15.08.2019		
Recommended Reading	Ibrahim Essa, <i>The Televangelist. A Novel</i> (Hoopoe Fiction, 2015)		

What Women (and Men) Want: Survey Research			
Course Number	00LE62S-LAS-GO0051	Teaching Period	Semester
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Qualitative and Quantitative Methods, Advanced Governance III, Specialization Option: Politics, Law, Administration, Elective module (Joker)	Module(s) (StuPo 2015)	Qualitative and Quantitative Method, Advanced Governance III, Specialization Options I and II, Elective module (Joker)
Open to Students	Year(s) 3-4	Max. Enrollment	20
Prerequisites	Introduction to Governance, highly preferably - Comparative Politics or a similar course.		
Instructor(s)	Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon, 16-18h, Ph HS3 Wed, 16-18h, AU 01065		
Course Description	<p>This course is centered on Catherine Hakim's Preference Theory. According to Hakim, women have heterogeneous preferences when it comes to work and family. She argues that whereas some women wish to make career and not have children, others would like to combine work and family, or have children and not work outside the home. Further, Hakim suggests that women's labor market participation and fertility are to a large extent determined by preferences and not by constraints, such as day care availability or parental leave.</p> <p>The course is divided into five parts:</p> <ol style="list-style-type: none"> 1. The course starts with a discussion about the Preference Theory, and the critique it received. In addition, we take a look at how women's preferences regarding work and family are studied. That is, what kind of survey questions are employed to operationalize work-life preferences. 2. After the theoretical discussion, we turn to the data. In particular, we will learn to use PSPP, and employ data from European Social Survey to replicate some of the earlier empirical findings on women's preferences. 3. When we have gained a firm understanding of PSPP and survey data, we will discuss survey design, namely: What to ask in a questionnaire, who to ask and how to formulate the questions. To make practical use of the theory, we will design our own survey on women's and men's preferences; identify a target population for the survey and collect data. 4. While we are waiting for the survey results, we conduct some field work on women's and men's preferences. 5. Finally, when we have the results from the survey, we will discuss the analysis and interpretation. 		
Remarks	Please contact the course instructor by email in case you would like to obtain the full course syllabus before you register to the course.		
Examination	Submission of the final part of the examined material will be due on August 12th, 2019.		
Recommended Reading	<p>Catherine Hakim (2003): "A New Approach to Explaining Fertility Patterns: Preference Theory". <i>Population and Development Review</i> 29: 349-74.</p> <p>Rosemary Crompton and Clare Lyonette (2005): "The new gender essentialism – domestic and family 'choices' and their relation to attitudes", <i>British Journal of Sociology</i> 56(4): 601-620.</p>		

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Genetics and Epigenetics			
Course Number	00LE62S-LAS-LS0018	Teaching Period	Semester (course start on Apr 25)
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Life Sciences I or II, Specialization Option: Life Sciences I or II, Elective module (Joker)	Module(s) (StuPo 2015)	Advanced Life Sciences I, II, or III, Specialization Option: Life Sciences I or II, Elective module (Joker)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Biochemistry, Cell Biology		
Instructor(s)	Dr. Nicola Iovino (iovino@ie-freiburg.mpg.de) Dr. Ritwick Sawarkar (sawarkar@ie-freiburg.mpg.de)		
Format, Dates, Times and Rooms	25.04-11.07.2019 Tue & Thu, 09:00-12:00 Seminar room at the Max Planck Institute of Immunobiology and Epigenetics, Stübeweg 51, 79108 Freiburg		
Course Description	<p>How is my brother taller than my parents but I am not? If my parents have diabetes, then will I also get this disease when I grow older? If you are curious about these questions, then read further on. Whether you'd like to be a biologist, an epidemiologist or a public health professional, you must have a basic knowledge of genetics/epigenetics and how it applies to human health. This course will get you familiar with the fundamentals of genetics. Following topics will be covered during the course in the form of assignments, group discussions, debates, lab visit or students' presentations:</p> <ol style="list-style-type: none"> 1. Introduction to Genetics and Epigenetics 2. Genes, coding and non coding RNA, and proteins 3. Model organisms, in particular Drosophila 4. Mouse genetics 5. Genetic diseases and their molecular basis 6. Revision 7. Epigenetics: Phenotype vs genotype 8. Epigenetic diseases and their molecular basis 9. Sex determination and dosage compensation 10. Epigenetic inheritance 11. Epigenetic mechanisms in hematopoiesis 12. Lab practical 13. Lab practical 14. Student Presentations 15. Lab practical 16. Revision 17. Exam 		
Remarks	Participation in all laboratory sessions is mandatory.		
Examination	Presentation 27.06. and a written exam 09.07.2019		

Computational Modeling			
Course Number	00LE62S-LAS-LSEE0001	Teaching Period	Semester
Study Area(s)	Life Sciences, Earth and Environmental Sciences (StuPo 2015 only), Electives	Credit Points	6
Module(s) (StuPo 2012)	Computer Science, Data Processing and Modeling in the Life Sciences	Module(s) (StuPo 2015)	Computer Science, Data Processing and Modeling in the Sciences
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Maths & Physics (may be waived if you can show that you have sufficient maths background)		
Instructor(s)	Dr. Reto Schöly (reto@reto-schoelly.de)		
Format, Dates, Times and Rooms	Mon, 10-12h, Ph HS2 Wed, 10-12h, Ph HS2		
Course Description	<p>MATLAB is considered to be one of the most important languages for mathematical computing; it is capable of simulating any mathematical model that can be solved numerically. This course shall provide insight into the basics of mathematical modelling with MATLAB.</p> <p>Contents:</p> <ol style="list-style-type: none"> 1. Introduction to basic operations (numeric calculations), matrix operations (matrix multiplication, inversion, vector transformation), functions (calculation, parameterization and return values), m-files, and proper formatting. 2. Writing documentations using MATLAB. 3. Fundamentals of modeling with MATLAB: economic systems, chaotic functions, mechanical systems and biological predator/prey systems. 4. Modeling of feedback control using SIMULINK. 5. Introduction to mathematical art. Lecture notes will be provided as a reference and for guidance in the exercises. <p>The subjects of the students' MATLAB projects can be from various fields – economical simulations are as welcome as physical simulations or geological data analyses. It should be of appropriate complexity, although no bachelor thesisgrade work is expected. Students can either choose to cover a subject that may be already part of their studies or ask the lecturer for a suggestion.</p>		
Remarks	Students must have a laptop available throughout the course. Working in pairs is fine. Also, students can make use of the computer labs at the university computer center: https://www.rz.uni-freiburg.de/services-en/pc-en/pcpools-en		
Examination	Project report and presentation: 22.07. and 24.07.2019		

4.6 Study Area: Multiple

Advanced Topics in STS			
Course Number	00LE62S-LAS-IN0011	Teaching Period	Semester
Study Area(s)	Electives	Credit Points	6
Module(s) (StuPo 2012)	Elective Joker	Module(s) (StuPo 2015)	Elective Joker
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Thu, 12-14h, KG 1234		
Course Description	This course deals with advanced topics in the field of Science and Technology Studies. It is highly recommended for students who wish to write their BA thesis in the field of STS, and/or under the supervision of Nicholas Buchanan or Veronika Lipphardt.		
Remarks	A preparatory mandatory meeting will take place on March 26th, 11h, in Veronika Lipphardt's office.		

Colloquium Science and Technology Studies			
Course Number	00LE62S-LAS-IN0002	Teaching Period	Semester
Study Area(s)	Electives	Credit Points	3 (SL only)
Module(s) (StuPo 2012)	Elective Joker	Module(s) (StuPo 2015)	Elective Joker
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Thu, 14-16h, KG 1136		
Course Description	<p>The Chair for Science and Technology Studies (STS) organizes talks, guest lectures and workshops with academics from various fields, from around the world, and from PhD students to professors. The program for each semester will be announced on the Chair's website and on the blue board next to our door. Students can obtain credit points by attending and actively engaging with these events under specific circumstances.</p> <p>In addition, the Chair offers BA-, MA- and PhD students various formats of advising and networking, particularly with regard to Science and Technology Studies or History of Science.</p>		
Remarks	Open to students of other programs interested in STS.		

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Energy Policy			
Course Number	00LE62S-LAS-EE0014	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II; Specialization Option: Politics, Law, Administration	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II, Human and the Environment; Specialiation Option Governance I and II
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences / Introduction to Governance		
Instructor(s)	Dr. Sibylle Braungardt (S.Braungardt@oeko.de)		
Format, Dates, Times and Rooms	Seminar Mon, 8-10h, AU 01065 Wed, 8-10h, AU 01065		
Course Description	<p>The transition towards an affordable, reliable and sustainable energy system is one of the key challenges the world is facing today. The course focuses on the dynamics of energy transitions and the role of public policy in shaping such processes. The content of the course is inherently interdisciplinary, focusing on the economic, social, technological and environmental challenges related to energy transitions. The students get familiar with the basic concepts and tools of energy analysis, focusing on the needs of energy policy decision-makers. The course covers a diverse set of policy instruments and strategies to support energy transition processes and discusses their effectiveness, efficiency and equitability. Based on the recent announcement of the German leading parties that the 2020 emission targets will not be reached, the students will develop an exemplary policy strategy to reach the 2030 targets in a case study project.</p>		
Remarks	EES students have priority		
Examination	<p>Examination:</p> <p>Case study presentation (part 1): 20% of the grade</p> <p>Case study presentation (part 2): 20% of the grade</p> <p>Case study presentation (part 3): 20% of the grade</p> <p>Case study presentation (part 4): 20% of the grade</p> <p>Final exam: 20% of the grade</p>		

5 Courses of other Degree programs

5.1 Study Area: Culture and History - Medienkulturwissenschaften

Queer Pop			
Course Number	05LE54S-163	Teaching Period	Semester
Study Area(s)	Culture and History	Credit Points	6
Module(s) (StuPo 2012)	Culture and History Since the Early Modern Period, Advanced Culture and History I or II	Module(s) (StuPo 2015)	Culture and History Since the Early Modern Period Advanced Culture and History I, II or III
Open to Students	Year(s) 2,3,4	Max. Enrollment	6 LAS
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Dr. Bettina Papenburg (bettina.papenburg@mkw.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Mon 12-14h c.t., KG 1134		
Course Description	<p>Das englische Wort „queer“ ist sowohl ein Substantiv als auch ein Adjektiv und ein Verb. Seit dem späten neunzehnten Jahrhundert wird das Substantiv „queer“ als abwertende Bezeichnung für eine(n) Homosexuelle(n) verwendet. In den frühen 1990er Jahren erfährt der Begriff mit dem Aufkommen der Queer Theory in den USA eine Umwertung: Vertreter*innen des Forschungsansatzes feiern die Abweichung von der sexuellen Norm und verabschieden sich von Normativität und Normierung; sie weiten den Begriff „queer“ aus und schließen die intentionale Unterwanderung von sozialen Konventionen sowie das bewusste und strategische Durchkreuzen von Kategorien- und Klassifikationssystemen mit ein und eröffnen auf diese Weise neue Räume für das Denken und die Lebensführung.</p> <p>Im Seminar untersuchen wir einerseits den Beitrag zur Populärkultur, den queere Filmemacher*innen, Schriftsteller*innen, Fotograf*innen, Performer*innen und Musiker*innen geleistet haben. Welche neuen Formen des Umgangs mit überlieferten Ideen von Weiblichkeit und Männlichkeit eröffnen Filme wie Velvet Goldmine, Boys Don't Cry und Laurence Anyways, Romane wie Dawn und The Book of Phoenix, die Fotografien von Robert Mapplethorpe und die Performances von Ron Athey? Wie setzen queere Popstars wie David Bowie, Lady Gaga und Janelle Monáe ihre Berühmtheit, Mode, Performance und ihre geschlechtliche Ambivalenz ein, um vieldeutige Botschaften über neue Muster von Gender, „race“, Klasse und Begehren und sogar über die Grenzen des Menschlichen zu verfertigen und zu übermitteln? Andererseits befassen wir uns mit ausgewählten Positionen von queeren Theoretiker*innen wie Sara Ahmed, Judith Butler, J. Jack Halberstam, Eve Kosofsky Sedgwick und José Esteban Muñoz und vielen anderen, die aus ihrer marginalen Positionierung heraus besonders klarsichtige Analysen und scharfsinnige Interpretationen von kulturellen Phänomenen vorgelegt haben. Wie können negative Affekte wie Scham, Versagen und Depression produktiv gemacht werden? Welche Utopien offerieren medienkulturelle Ausdrucksformen, die unter den Etiketten Afrofuturismus, Gaga feminism und Black Atlantic speculative fiction verhandelt werden?</p>		
Remarks	<p>This course is part of a cooperation with Medienkulturwissenschaften. A limited number of spots (3) are available for LAS/C&H students. The seminar and graded work are in German.</p> <p><i>Course Registration:</i></p> <p>Course registration dates of Medienkulturwissenschaften (20.2.-16.4.) apply.</p> <p>Please register for the course in HISinOne You can find the course in the Electives Area of your Planner of Studies (Courses/Modules of other Degree Programs –</p>		

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Modules Faculty of Humanities).

Exam Registration:

LAS students: If you wish to get credits for the course you must apply for credit recognition of courses of other degree programs at the University of Freiburg. Details on the application procedure are available on the Info Board on ILIAS.

Theories of Immersion			
Course Number	05LE54S-172	Teaching Period	Semester
Study Area(s)	Culture and History	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Culture, Specialization Option: History	Module(s) (StuPo 2015)	Specialization Option Culture and History I or II
Open to Students	Year(s) 2,3,4	Max. Enrollment	3 LAS
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Prof. Robin Curtis (robin.curtis@mkw.uni-freiburg.de)		
Format, Dates, Times and Rooms	23.04.-23.07. Seminar Tue, 10-12h c.t., KG 1108 26.07., 14-16h, KG 1132		
Course Description	<p>In this research practice-based seminar, which will give advanced students a perspective on the initial steps of a research project currently operating in the context of the SFB 1015 on "Muße: Grenzen, Räumlichkeiten, Praktiken", we will together complete the initial process of a research project investigating the notion of immersion as an historically-specific phenomenon. The seminar which will be conducted in English will trace a range of texts associated with the evolving theory of immersion. Within the last fifteen to twenty years, the term "immersion" has assumed an increasingly prominent place within humanities and social-scientific research. Data provided by the Arts & Humanities Citation Index and the Social Sciences Citation Index confirm this: A search for the term "immersion" within the title of a text between 1975 and 2014 found 77.54% of the 2,516 instances of the inclusion of the term in texts were published since the year 2000.</p> <p>Immersion would seem to have become a trope of our time, despite the fact that its characteristics, effects and the specific parameters that bring about immersion remain undertheorized in recent scholarship. An often cited definition of immersion, hailing from Janet Murray, compares immersive experience metaphorically with the submersion of the subject in water, akin to "the sensation of being surrounded by a completely other reality, as different as water is from air, that takes over all of our attention, our whole perceptual apparatus" (Murray 1997, 98-99). While the majority of contemporary scholarship on immersion agrees that immersive experience brings about the total focus of attention of the person who is thus involved, there is, however, little consensus about the manner in which immersion is brought about by either direct or mediated experience and what the necessary conditions for and implications of such experience may be. Immersion thus encompasses a tension between a concentrated or contemplative absorption on the one hand and distraction on the other. Immersion can signify the complete (ostensibly passive) involvement of a viewer in a film (Griffiths 2008) or the focussed (ostensibly active) engagement of a player with a (video-)game brought about through the experience of "spatial presence" (McMahon 2003, Wirth et al. 2007). Immersion can come about by way of the experience of illusion, or via the somatic impact made by a medium or the intermodal involvement of the senses resulting in any case in a "submersion" of the self in a virtual space, or a space that has at least in part been brought about by the contribution of the imagination. In such an immersive situation users or viewers experience a reprieve from everyday life, from the "here and now" and a transport to a different experience of space/time.</p>		
Remarks	<p>This course is part of a cooperation with Medienkulturwissenschaften. A limited number of spots (3) are available for LAS/C&H students.</p> <p><i>Course Registration:</i> Course registration dates of Medienkulturwissenschaften (20.2.-16.4.) apply. Please register for the course in HISinOne You can find the course in the Electives</p>		

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Area of your Planner of Studies (Courses/Modules of other Degree Programs – Modules Faculty of Humanities).

Exam Registration:

LAS students: If you wish to get credits for the course you must apply for credit recognition of courses of other degree programs at the University of Freiburg. Details on the application procedure are available on the Info Board on ILIAS.

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5.2 Study Area: Earth and Environmental Sciences - Sustainable Systems Engineering

Design and Monitoring of Large Infrastructures			
Course Number	11LE68Ü-9020	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II
Open to Students	Year(s) 3-4	Max. Enrollment	none
Prerequisites			
Instructor(s)	Prof. Dr. Alexander Reiterer (alexander.reiterer@ipm.fraunhofer.de) Dr. Alexander Stolz		
Format, Dates, Times and Rooms	24.04.-24.07. Seminar Wed, 14-16h, G.-Köhler-Allee 101, Seminar 00-010/014		
Course Description	<p>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.</p> <p>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.</p> <p>In detail students will learn about</p> <ul style="list-style-type: none"> • A set of fundamentals and tools to enable architects, structural engineers and building installation engineers assess the safety, security and resilience of designs and to optimize the integral design • An overview about measurement techniques for monitoring such structures • A deep view on the corresponding sensor and measurement concepts (focusing on optical systems) • Using real time data streams for monitoring the resilience of infrastructure • Smart and reinforced building elements, to measure the actual building condition combined with an increased bearing capacity and resistance. 		
Remarks	<p>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.</p> <p>Course registration starts March 25, 2019</p> <p>Period during which examination can take place: August 20 – September 29, 2019</p> <p>More information via email to sabine.sane@ucf.uni-freiburg.de.</p> <p>Only advanced students can participate.</p>		

Emerging and Future Photovoltaic Technology Options			
Course Number	11LE68V/Ü-4105	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II
Open to Students	Year(s) 3-4	Max. Enrollment	none
Prerequisites	Course on Energy Technologies		
Instructor(s)	Dr. Jan Christoph Goldschmidt (jan.christoph.goldschmidt@ise.fraunhofer.de)		
Format, Dates, Times and Rooms	Lecture/Seminar: Thu, 8-10h, SR 01-018, Georges Köhler Allee 101 Fri, 8-10h, SR 01-018, Georges Köhler Allee 101		
Course Description	<p>The overarching goal of this module is to enable the students to participate in research & development of advanced photovoltaic technologies, as well as to critically assess the potential benefit of new PV technologies for a sustainable energy system in an industrial or political context.</p> <p>The participants of this module will be able to explain how efficiency limitations of the current silicon solar cell technology and the current cost structure of PV electricity motivate the ongoing efforts to develop alternative PV technologies.</p> <p>The students will be able to name the relevant PV technology options that are currently being investigated, describe their working principle as well as the limitations and challenges these options face.</p> <p>The students will be able to list critical key indicators for performance, potential, market readiness and relevance of a PV technology and to use those to critically assess new emerging PV technologies.</p>		
Remarks	<p>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.</p> <p>Course registration: starts March 25, 2019</p> <p>Period during which examination can take place: August 20 – September 29, 2019</p> <p>More information via email to sabine.sane@ucf.uni-freiburg.de.</p> <p>Only advanced students can participate.</p>		

Photovoltaic Lab			
Course Number	11LE68P-4108	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II
Open to Students	Year(s) 3-4	Max. Enrollment	2
Prerequisites	Course Solar power or equ.		
Instructor(s)	Prof. Dr. Stefan Glunz (stefan.glunz@inatech.uni-freiburg.de) Dr. Nico Johannes Tucher Ralph Müller		
Format, Dates, Times and Rooms	Practical Work: Fr, 10-12h, Gab 01-007, Georges Köhler Allee 106		
Course Description	<p>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.</p>		
Remarks	<p>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. 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.</p> <p>Course registration: ends March 15, 2019</p> <p>Period during which examination can take place: August 20 – September 29, 2019</p> <p>registration via email to sabine.sane@ucf.uni-freiburg.de.</p> <p>Only advanced students can participate.</p>		

5.3 Study Area: Electives - Provinzialrömische Archäologie

The Archaeology of Rome's Empire, Its Place in Cultural Heritage and the UNESCO			
Course Number	06LE53S-PASS1904	Teaching Period	Semester
Study Area(s)	Electives	Credit Points	6 (SL only)
Module(s) (StuPo 2012)	none	Module(s) (StuPo 2015)	none
Open to Students	Year(s) 2-4	Max. Enrollment	12 LAS
Prerequisites	none		
Instructor(s)	Thomas S. Carhart (thomas.s.carhart@archaeologie.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar Tue, 12-14h, R 012 Glacisweg 7, Zeitschriftenraum		
Course Description	<p>The legacy of Rome's provinces will be the main focus point for the understanding of Cultural Heritage. The course will give an overview of this very international cultural legacy. The Roman heritage is very special in that it stretches today across the territories of more than 28 nations. The course will view social aspects, historical development and place in modernity of Cultural Heritage. Central to the understanding of Heritage is how it is itself generated and molded to fit specific functions in particular within individual western societies but also in international interaction. The course will explore Cultural Heritage in its roll for modern-day society, for the construction of group, state and national identities as well as its function as a medium of intellectual hegemony. This will be shown through the legacy of Rome's provinces in a number of European and non-European heritage sites. Emphasizing the dichotomy of Eurocentricity as well as the other perspective, that of the non-western. The course will look into the heritage concept as a modern phenomenon, but also as a concept grounded in history, perhaps seeded in antiquity, also as a colonial instrument of dominance, as a state/communal administrative tool of regulation, as a form of identity in national and international imagination and lastly as an economic factor or even an industry in its many facets ranging from museums of the material past fed by archaeological material to the preservation of many very differing types of sites.</p> <p>Archaeology has always played an integral part in the production of Heritage. Whereas only a few decades ago archaeology was dominated and channelled by the academic discourse today the majority of archaeologists are involved to a greater or lesser degree in the space of culture management, in short 'heritage'. The communal, county and State employees in culture management, incl. archaeological service, are involved more in the presentation of material finds for education or tourism as a function of society in the form of Heritage than in the production of archaeological academic knowledge as such. Therefore it is all the more important for social scientists such as archaeologists, historians and educators to understand what heritage is and its role in society means. There is today nothing, as it was in the past often understood, a-political about archaeology and its place in society.</p>		
Remarks	<p><i>Course Registration:</i> Please register for the course in HISinOne. You can find the course in the Electives Area of your Planner of Studies (Courses/Modules of other Degree Programs – Modules Faculty of Philosophy). Course registration dates of the relevant degree programs apply: 25.3.-7.5.2019.</p> <p><i>Exam Registration:</i> LAS students you wish to get credits for the course must apply for credit recognition of courses of other degree programs at the University of Freiburg. For Studienleistungen (pass-fail assessments), the application must be submitted after the completion of the course.</p>		
Recommended Reading	Lowenthal, D. (2015): <i>The Past is a Foreign Country</i> . Cambridge. Further course reading will be announced in the course		

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