



UNIVERSITY  
COLLEGE  
FREIBURG



# Course Catalog

B.A./B.Sc. Program Bachelor of  
Liberal Arts and Sciences  
Summer Semester 2018

Albert-Ludwigs-Universität Freiburg

UNI  
FREIBURG

## Contents

<b>I</b>	<b>General Information .....</b>	<b>1</b>
1	Teaching Periods and Dates .....	1
2	LAS Academic Calendar .....	1
<b>II</b>	<b>Course Registration .....</b>	<b>3</b>
1	Who Needs to Register? .....	3
2	When to Register for Courses? .....	3
3	How to Register for Courses? .....	5
4	Participant Lists.....	5
5	Problems with Course Registration? .....	6
<b>III</b>	<b>Course Descriptions .....</b>	<b>7</b>
6	Pre-Block Courses.....	7
6.1	Study Area: Core .....	7
	All the World's a Stage: Leadership, Responsibility and Theatre .....	7
6.2	Study Area: Governance.....	8
	Political System of the United Kingdom and the European Union .....	8
6.3	Study Area: Multiple .....	9
	Beer and Wine as Crafts.....	9
7	Courses Offered in Block III.....	10
7.1	Study Area: Core .....	10
	Oppression and Equality from an Intersectional Perspective .....	10
	Perspectives on Science.....	11
7.2	Study Area: Earth and Environmental Sciences .....	12
	Introduction to Earth and Environmental Sciences (Foundational Year).....	12
	Energy .....	13
	Earth Sciences .....	14
7.3	Study Area: Life Sciences.....	15
	BIOSS Toolbox.....	15
	Cell Biology.....	17
	Neuropsychology .....	18
7.4	Study Area: Governance.....	19
	Introduction to Governance (Foundational Year) .....	19
	God and Governance: Regulation of Religion in Comparative Perspective .....	21
	Understanding Forced Displacement.....	22

7.5	<b>Study Area: Multiple</b>	24
	Anthropology - Humans in the Scope of Interdisciplinary Research	24
8	<b>Courses Offered in Block IV</b>	25
8.1	<b>Study Area: Core</b>	25
	Positive Leadership	25
8.2	<b>Study Area: Earth and Environmental Sciences</b>	26
	Introduction to Earth and Environmental Sciences (Foundational Year)	26
8.3	<b>Study Area: Life Sciences</b>	27
	Biochemistry	27
	Emerging Infectious Diseases	28
8.4	<b>Study Area: Governance</b>	29
	International Relations and Institutions	29
8.5	<b>Study Area: Culture and History</b>	30
	Gender, Queer, Intersectional, and Posthuman Perspectives on Social Change	30
	Creating an Exhibition Unit for the UNISEUM: The Alexander Ecker Collection	31
8.6	<b>Study Area: Multiple</b>	32
	Ecology - From Genetic Adaptations to Communities	32
	Environmental Psychology	33
	Environment and History – Excursion to Greece	34
9	<b>Semester long Courses</b>	35
9.1	<b>Study Area: Core</b>	35
	Dealing with Numerical Information (Foundational Year)	35
	Living Knowledge: An Introduction to Qualitative Research (Foundational Year)	36
	Colloquium Science and Technology Studies	38
	Ignorance, Uncertainty, Unknowns	39
9.2	<b>Study Area: Earth and Environmental Sciences</b>	40
	Emerging and Future Photovoltaic Technology Options	40
	Energy in Buildings	41
	Photovoltaic Lab	42
	Resilienz und Kollaps ökologisch-ökonomischer Systeme	43
	The Earth in the Universe	44
	Field Excursions	46
9.3	<b>Study Area: Life Sciences</b>	47
	Introduction to Life Sciences (Foundational Year)	47
	Genetics and Molecular Biology: Genealogy of a Science	48
9.4	<b>Study Area: Governance</b>	49
	Comparative Politics	49
	International Security	50
	Law, State, Society	51
	Principles of Law	52
	Qualitative Research Methods for the Social Sciences: Insights in Research on Terrorism and Counterterrorism	53

Sociological Theory and the Quest for Social Order.....	54
<b>9.5 Study Area: Culture and History.....</b>	<b>55</b>
Introduction to Culture and History (Foundational Year) .....	55
Culture as a Topic of Academic Inquiry.....	56
History as a Topic of Academic Inquiry .....	57
Before the Silk Road: Global Exchange in the Ancient Eurasian World Region (300 BCE to 300 CE) .....	58
Human remains exhibited? Skulls as objects of colonialism, race science and museal display .....	59
Language, Discourse, and Identity.....	60
Rawls: A Theory of Justice .....	61
<b>9.6 Study Area: Multiple .....</b>	<b>62</b>
Aspects of Human Genetic Diversity.....	62
Computational Modeling .....	63
Energy Policy.....	64
Environmental Governance .....	65

## 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
<b>Pre Block</b>	March 19 – 30
<b>Block III</b>	April 9 – June 1 (Examinations of Block III may take place during the university Pentecost holidays)
<b>Block IV</b>	June 4 – July 20
<b>University Semester</b>	April 16 – July 21 (semester-long LAS courses run according the university semester, no teaching during university Pentecost holidays)
<b>Resit Period</b>	October 1 – October 26 (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
<b>March 2018</b>		
Starting 11.03		<b>LAS Course Registration</b> with consecutive registration periods for courses of the upcoming winter semester (see Course Registration on p.3)
Tue	27.03	<b>Deadline: Application for SLI Language Courses</b> (individual courses paid by UCF, the application form and guidelines will be available on the Info Board on ILIAS)
19.-29.03		Pre-Block Courses
<b>April 2018</b>		
Mon	02.04	Public Holiday: Easter Monday (no teaching)
Fri	06.04	<b>Deadline: Application for Courses of other Degree Programs at the University of Freiburg Courses</b> (for graded examinations only) – Application forms have to be submitted to the course coordinators for recognition and signatures.
Mon	09.04	Block III begins
		Exam registration and withdrawal for courses of Block III <b>AND</b> semester long courses in HISinOne begin (not for courses of Block IV).
Mon	16.04	University semester begins
Fri	20.04	LAS Open Day
Fri	20.04	<b>Deadline: Application for Courses of other Degree Programs at the University of Freiburg Courses</b> (for graded examinations only) - The application form and guide-

Date		Important Dates and Deadlines
		lines are available on the LAS Info Board on ILIAS – Please use the newest application form!– <b>Note that incomplete applications will not be considered!</b>
Sun	29.04	<b>Deadline: Exam Registration and Withdrawal for Courses of Block III AND Semester Long Courses</b> in HISinOne (not for courses of block IV).
May 2018		
Tue	01.05	Public Holiday: May Day (no teaching)
Thu	03.05	Board of Studies and Examiners Meeting, 9:00h UCF Reading Room
Thu	04.05.	UCF Study Abroad Fair, 13h KG 1199
Thu	10.05.	Public Holiday: Accession Day (no teaching)
Tue	15.05	<b>Deadline: Application Credit Recognition for Study Abroad</b> (Guidelines and application forms are available on the LAS Info Board on ILIAS)
Fri	17.05	<b>Deadline: Application for Admission of Bachelor Thesis</b> (4 <sup>th</sup> year students)
21.05 – 25.05		Pentecost Holidays (no teaching, but examinations of Block III possible)
Thu	31.05	Public Holiday: Corpus Christi (no teaching)
June 2018		
Fri	08.06	LAS Open Day
Fri	01.06	Block III ends
Mon	04.06	Block IV begins
		Exam Registration and Withdrawal for Courses of Block IV in HISinOne begin.
Sun	24.06	<b>Deadline: Exam Registration and Withdrawal</b> for Courses of Block IV in HISinOne
July 2018		
Fri	20.07	Block IV ends
Sat	21.07	University semester ends
Tue	31.07	<b>Deadline: Major Declaration</b> to be considered for course selection of the upcoming semester (Declaration Forms are available on the LAS Info Board on ILIAS)
		<b>Deadline: Application for Graduation SS 2018</b>
August 2018		
30.07 – 03.08		LAS Selection Interviews
September/October 2018		
Early September		Publication of the LAS Course Catalog WS 2017/18 on the <a href="#">UCF website</a>
Thu	21.09	<b>Deadline: Application for Admission of Bachelor Thesis</b> (4 <sup>th</sup> year students)
Sun	22.09	<b>LAS Course Registration</b> for courses of the Winter Semester 2018/19 with consecutive registration periods (details tba)
25.09 – 06.10		<b>October Intensive Courses</b> (details tba)
09.10 – 13.10		<b>LAS Welcome Week</b>
Mon	15.10	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](mailto:las.consultation@ucf.uni-freiburg.de)) well in advance.

Registration Period I Sat, 10.3 - Tue, 13.3 (12:00h, noon)		
Who can register	For what	Comment
<b>Liberal Arts and Sciences (LAS) students who have <u>formally</u> declared their major</b> by 31 <sup>st</sup> of January	LAS courses to be recognized as <b>Major courses only</b> ( <u>not</u> as Electives, Core or Language courses!)	LAS students are allowed to register for a <b>maximum of 5 courses in total</b> (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 <sup>st</sup> of January can only register for courses in Registration Period II.
<p><b>Places will be assigned after the registration period.</b> Higher year students will get priority on places unless otherwise noted in the course description.</p> <p><b>You can check your registration status on Wednesday evening.</b> 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 <b>Thu, 15.3</b>, 14:00h to 18:00h in HISinOne.</p> <p><b>Please, de-register from courses that you do not want to take immediately.</b></p>		

<b>Registration Period II</b> <b>Sat, 17.3 - Tue, 20.3 (12:00h, noon)</b>		
Who can register	For what	Comment
<b>LAS students</b> (who have not yet achieved all credits in the respective area) <b>and LAS exchange students</b>	All courses listed in the LAS Course Catalog <b>to be taken as 6 ECTS courses</b>	LAS and Exchange Students are allowed to register for a <b>maximum of 5 courses in total</b> (including language courses paid by UCF, excluding pre-block courses). No exceptions to this rule will be made.
<p><b>Places will be assigned after the registration period.</b> 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><b>You can check your registration status on Wednesday evening.</b> 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 <b>Thu, 22.3</b>, 14:00h to 18:00h (noon) in HISinOne.</p> <p><b>Please, de-register from courses that you do not want to take immediately</b></p>		

<b>Registration Period III</b> <b>Sat, 24.03 - Wed, 28.03 (12:00h, noon)</b>		
Who can register	For what	Comment
<b>LAS students, LAS Exchange students, and Students of partner degree programs at the University Freiburg</b>	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 <b>maximum of 6 courses in total</b> .
<p><b>Places will be assigned throughout the registration period. Regularly check your registration status</b> 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><b>Please, de-register from courses that you do not want to take immediately.</b></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](mailto: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 Tuesday, April 3, 2018** 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](mailto: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 Course Descriptions

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

#### 6 Pre-Block Courses

##### 6.1 Study Area: Core

All the World's a Stage: Leadership, Responsibility and Theatre			
Course Number	00LE62S-LAS-CO0038	Teaching Period	Pre-Block
Study Area(s)	Core, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Action, Rationality and Responsibility Elective module (Joker)	Module(s) (StuPo 2015)	Responsibility and Leadership I (for year 3 + 4 only) or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	For StuPo 2015 students: Responsibility and Leadership I		
Instructor(s)	Maria-Xenia Hardt (maria-xenia.hardt@anglistik.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: 19.-23.03., HH 01020a + 01020c 26.3.-29.03., AU 01042 + 01065		
Course Description	<p>Leadership and responsibility on one hand and theatre on the other are intertwined in manifold ways: Firstly, leadership and responsibility have been explored as both plot- and character-driving forces on stage throughout history, making the canon of world theatre a treasure chest full of (ir-)responsible leaders dealing with their own rise and fall, with questions of power and morality, with decision-making and doubt. Secondly, the world of high achieving politicians, managers, and entrepreneurs has long discovered the benefits of theatrical performance skills for their success. Thirdly, the process of adapting a play asks for and develops practical skills in both leadership and responsibility.</p> <p>This course incorporates all three aspects by reading theatre, doing theatre and tracing theatre in the 'real' world: In the first week, we will zoom in on a selection of plays ranging from Sophocles' classical Antigone to David Mamet's contemporary Glengarry Glen Ross. The discussions of the plays will be constantly supplemented by actual theatre work culminating in putting one of our plays on stage within the 48 hours (Mar 23-25). In the second week, we will broaden the scope, looking at (theatrical) performances in economics and politics. Students will also be required to watch at least one professional performance and discuss it in essay format.</p>		
Remarks	<p>Priority will be given to StuPo 2012 students. The course also takes place on the weekend March 23-25.</p> <p>This is the last chance for StuPo 2012 students to take the Action, Rationality and Responsibility module.</p>		

**6.2 Study Area: Governance**

<b>Political System of the United Kingdom and the European Union</b>			
Course Number	00LE62S-LAS-GO0037	Teaching Period	Pre-Block
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Advanced Governance I or II Specialization Option: Law, Politics, Administration Elective module (Joker)	Module(s) (StuPo 2015)	Regional Governance Advanced Governance I or II Specialization Options I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20 max.
Prerequisites	Introduction to Governance		
Instructor(s)	Charles Marquand (c.marquand@4stonebuildings.com)		
Format, Dates, Times and Rooms	Seminar: 19.03.-23.03., AU 01065 26.03.-28.03., AU 01036a		
Course Description	<p>The aim of the course is to give students an understanding of the key elements of the British political system, in theory and in practice, and the UK's past and future relations with the European Union.</p> <p>First part: British Constitution -- The British constitution is unlike most other constitutions. It is not set out in a single over-arching document, with a special status within the legal and political system, which can be studied and analysed. Notwithstanding the absence of such a document, the British constitution does, nonetheless, exist. It comprises a series of statutes, court judgements and political conventions and practices, which have evolved over time. Accordingly, the first part of the course will focus on the development of the principles, legal judgments and political practices which underpin the British constitution and political system and their operation in practice.</p> <p>Second part: European Union -- The European Union is a unique and dynamic system. The second part of the course will focus on the development of the European Union, the position of European law and the legislative processes of the European Union. There will also be a discussion on the theoretical characterisations of the European Union system. Again, seminars and practical exercises are planned, incl. bargaining and agenda-setting processes.</p> <p>Third part: Interaction between the UK and the European Union -- The third part of the course will focus on how British political principles and practices relate to/interact with the theory and operation of the European Union. In addition to seminar discussions, students will also be shown a film/documentary on the history of the United Kingdom's relations with Europe since 1945.</p> <p>Fourth part: Brexit -- The fourth part of the course will focus on Brexit and the political/social forces that led to the narrow result in the referendum to leave the European Union and the political/legal reaction. It will also look at possible models for a future relationship between the UK and the EU. Students will also be shown documentaries on the Brexit referendum.</p> <p>Course requirements</p> <p>SL (pass/fail): Students will be expected to participate actively in discussions. Therefore some pre-reading would be expected.</p> <p>PL (exam): Students will produce an annotated bibliography in which they develop an argument or proposition of their choosing, related to the questions and issues touched upon during the course.</p>		
Remarks	This is a pre-semester course, which runs over 8 days, with 5 hours of class per day.		

## 6.3 Study Area: Multiple

Beer and Wine as Crafts			
Course Number	00LE62S-LAS-CHEE0001	Teaching Period	Pre-Block
Study Area(s)	Culture and History, Earth and Environmental Sciences, Electives	Credit Points	2 ECTS
Module(s) (StuPo 2012)	Elective module (Joker)	Module(s) (StuPo 2015)	Elective module (Joker)
Open to Students	Years 1, 2, 3, 4	Max. Enrollment	10
Prerequisites	none		
Instructor(s)	Ryan Plumley, Sabine Sané, Clayton Robinson		
Format, Dates, Times and Rooms	Lecture/Seminar: February 26, 9 - 17h <ul style="list-style-type: none"> <li>• Discussion seminar based on required readings</li> <li>• Beer brewing (I)</li> </ul> March 5 or 6, 9 - 13h <ul style="list-style-type: none"> <li>• Beer brewing (II)</li> <li>• Field Trip to Feierling Brauerei</li> </ul> March 8, 13-18h (End in Wildtal/Gundelfingen) <ul style="list-style-type: none"> <li>• Discussion seminar based on required readings</li> <li>• Field Trip to Dr. Feser Winery</li> </ul>		
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 &amp; Environmental Sciences and Culture &amp; 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, <i>terroir</i>). 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>		

## 7 Courses Offered in Block III

### 7.1 Study Area: Core

Oppression and Equality from an Intersectional Perspective			
Course Number	00LE62VS-LAS-CO0021	Teaching Period	Block III
Study Area(s)	Core, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Anthropology and Experience Elective module (Joker)	Module(s) (StuPo 2015)	Responsibility and Leadership I (for year 3 + 4 only) or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Eliane Kurz (e.kurz@hotmail.com)		
Format, Dates, Times and Rooms	Lecture: Mon, 14-16h, KG I 1142 Tue, 14-18h, KG III 3117		
Course Description	<p>The concept of intersectionality was developed in the context of Black Feminism in the US and the struggle against a white feminism that only focused on the hierarchies between the sexes and denied any differences between women. Intersectionality stresses the interlocking of different systems of oppression and changed the dealing with social injustices. Today the concept is used in a variety of disciplines; in theoretical as well as in methodological and political approaches.</p> <p>The course starts with looking at what oppression is, how it can be defined and what the difference is between oppression and e.g. bullying. This basic knowledge of what oppression is, is important throughout the course to clarify what one talks about when using the concept of oppression. After that the historical context of intersectionality and its long history within Black Feminism in the US is discussed before talking about Kimberlé Crenshaw and her introduction of the term intersectionality in the 1980s. While discussing the concept of intersectionality practical approaches how to take intersectionality into account are developed with the students.</p> <p>These approaches are then used to look at four different systems of oppression (racism, sexism, classism and ableism) from an intersectional perspective. Besides theoretical approaches to intersectionality and systems of oppression the course focuses on the practical level and looks at movements fighting for social justice from an intersectional perspective.</p> <p>The course ends with an anti-racist city tour which highlights the situation of refugees in Freiburg as a concrete example of what oppression can look like and how intersectionality is important in this case. The tour takes students to different authorities refugees have to deal with throughout their asylum procedure as well as showing them an example of a refugee camp (solely from the outside). The tour ends at the rasthaus (an initiative advocating equal rights for refugees) to give students an idea how practical solidarity and activism in social justice can look like.</p> <p>This rounds up the course on a practical note before students have time to focus on writing an essay in which they discuss a topic of their choice using an intersectional perspective.</p>		
Remarks	Priority will be given to StuPo 2012 students. This is one of the last chances for StuPo 2012 students to take the Anthropology & Experience module. The course includes a thematic city tour (tba)		

Perspectives on Science											
Course Number	00LE62S-LAS-CO0039	Teaching Period	Block III								
Study Area(s)	Core	Credit Points	6 ECTS								
Module(s) (StuPo 2012)	Theories of Knowledge	Module(s) (StuPo 2015)	Theory of Science								
Open to Students	Years 2 + 3	Max. Enrollment	90								
Prerequisites	none										
Instructor(s)	Prof. Dr. Wolfgang Freitag (wolfgang.freitag@ucf.uni-freiburg.de)										
Format, Dates, Times and Rooms	<p>Lecture: Mon,12-14h, KG I 1098 Wed,12-14h, KG III 3042</p> <p>Workgroups:</p> <table><tr><td>WG1</td><td>WG2</td></tr><tr><td>Wed,14-16h, AU 01042</td><td>Wed, 16-18h, KG I 1231</td></tr><tr><td>WG3</td><td>WG4</td></tr><tr><td>Fri, 08-10h, AU 01065</td><td>Fri, 10-12h, AU 01065</td></tr></table>			WG1	WG2	Wed,14-16h, AU 01042	Wed, 16-18h, KG I 1231	WG3	WG4	Fri, 08-10h, AU 01065	Fri, 10-12h, AU 01065
WG1	WG2										
Wed,14-16h, AU 01042	Wed, 16-18h, KG I 1231										
WG3	WG4										
Fri, 08-10h, AU 01065	Fri, 10-12h, AU 01065										
Course Description	<p>This course offers a meta-disciplinary approach to the concept of science and to different sciences. We explore the rise of modern science and the relation, or relations, between science and religion. We then introduce the concepts of scientific explanation, confirmation, theory change, and scientific revolution. We will also deal with the problem of induction, explain principles of inductive logic, and discuss the interpretation of probability and statistics. Based on the notions introduced, we will exemplarily investigate major developments in different scientific fields such Physics, Biology, and History. The course consists of a series of lectures accompanied by weekly tutorials.</p>										
Remarks	<p>The lecture and the workgroups are setup as two courses in HISinOne. Please register for the workgroup only.</p>										

**7.2 Study Area: Earth and Environmental Sciences**

<b>Introduction to Earth and Environmental Sciences (Foundational Year)</b>			
Course Number	00LE62V-LAS-EE0001 00LE62S-LAS-EE0001	Teaching Period	Block III
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Introduction to Earth and Environmental Sciences
Open to Students	Year(s) 1, (2)	Max. Enrollment	25
Prerequisites	none		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture: Mon, 10-12h, KG I 1108  Workgroups: WG1 Tue, 12-14h, AU 01036a Wed, 08-12h, AU 01036a		
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 one 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.		



Energy			
Course Number	00LE62S-LAS-EE0002	Teaching Period	Block III
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option: EES I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	16
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Sabine Sané ( <a href="mailto:sabine.sane@ucf.uni-freiburg.de">sabine.sane@ucf.uni-freiburg.de</a> ), Johannes Erben		
Format, Dates, Times and Rooms	Lecture/Seminar/Practical: Tue, 08-12h, Ph HS 2 Thu, 08-12h, Ph HS 2 Friday excursion (date tba)		
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	An affinity to mathematics and physics is required.		

Earth Sciences			
Course Number	00LE62S-LAS-EE0004	Teaching Period	Block III
Study Area(s)	Earth and Environmental Sciences, Electives for other majors only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Earth Sciences	Module(s) (StuPo 2015)	Earth Sciences
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr habil. Eckart Stein (stein@geo.tu-darmstadt.de)		
Format, Dates, Times and Rooms	Lecture/Seminar: Mon, 14-16h, AU 01042 Tue, 14-18h, AU 01036a Thu, 14-16h, AU 01036a		
Course Description	<p>In this course, students explore fundamental principles of endogenous and exogenous geology to gain basic understanding of the shape and functioning of our planet.</p> <p>Regarding endogenous geology, students learn about the Earth's interior structure and internal processes. These processes include the formation of rocks, in particular igneous rocks and metamorphic rocks, and deformation (plate tectonics).</p> <p>With respect to exogenous geology, students learn about processes and forces near or at the Earth's surface, such as the physical and chemical weathering of rocks, transport of materials (through wind, water and ice) and deposition of materials in different environments (glaciers, lakes, sea) as sedimentary rocks.</p> <p>In addition, an emphasis is placed on the link between both exogenous and endogenous principles and contemporary environmental challenges (e.g. earthquakes, reservoirs of resources). During the seminar, students link their acquired knowledge to current environmental challenges.</p>		
Remarks	On Tuesdays, only occasionally the course will end at 18h.		

## 7.3 Study Area: Life Sciences

BIOSS Toolbox			
Course Number	00LE62S-LAS-LS0006	Teaching Period	Block III
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: LS I or II	Module(s) (StuPo 2015)	Specialization Option: LS I or II Methods (Life Sciences)
Open to Students	Years 3 + 4	Max. Enrollment	8
Prerequisites	Cell Biology, Biochemistry, Laboratory Work for the Life Sciences		
Instructor(s)	Dr. Nicole Gensch (nicole.gensch@bioss.uni-freiburg.de) Dr. Pavel Salavei, Dr. Susan Lauw, Thomas Schubert		
Format, Dates, Times and Rooms	Seminar: Tue, 10-12h, BIOSS, Signalhaus Freiburg, Schänzlestr. 18 Room 00.003/02.023 Thu, 8-12h, BIOSS, Signalhaus Freiburg, Schänzlestr. 18 Room 00.003/02.023		
Course Description	<p>The course introduces four methods from the Life Sciences that are offered as "The Toolbox" at the Centre for Biological Signalling Studies. It targets advanced students from the Life Sciences major. The Toolbox is a non-profit central unit of the BIOSS excellence cluster in Freiburg, which serves as a method development facility for signalling studies and synthetic biology and a resource, storage and information centre for biological materials. As a central facility we support researchers of the University of Freiburg with main focus on gene cloning, protein expression and protein analytic, assay development and high throughput screening, as well as imaging techniques.</p> <p><b>Gene Cloning</b></p> <p>Understanding the genome sequence and to gain knowledge about the function of a gene requires different genetic techniques. This includes the isolation of genes, the transfer of a gene to another organism and the expression of the corresponding proteins. The ability to successfully clone genes underlies the majority of our knowledge in molecular and cellular biology.</p> <p>In the lecture the students will get an overview of the diverse array of techniques available to clone genes. The students will also experimentally learn how the techniques are carried out in the laboratory. The practical work will include the isolation and amplification of a DNA sequence, integration of the gene into a cloning and expression vector and finally the screening of positive clones.</p> <p><b>Protein Expression and Protein Analytic</b></p> <p>Especially for the use in biotechnology, medicine, the pharmaceutical industry, and agriculture it is necessary to express recombinant proteins. Mainly prokaryotic and eukaryotic host organisms are used to express proteins. Once a gene has been cloned it can be easily transferred in the corresponding expression system. The field of protein analytic includes different methods and techniques. Starting from protein purification and detecting proteins, the protein structure and the interactions between protein-protein and protein-DNA are routinely analyzed.</p> <p>In the practical course the student will learn how to express and purify a protein from a bacterial system. Applied methods among other things will include measuring the protein concentration, SDS-Page and Western Blot.</p> <p><b>Imaging</b></p> <p>To gain knowledge about a gene/protein it is most often important to investigate its function and localization within an organism. Different microscopic techniques are available that allow researchers to investigate molecular structures, such as cell compartments or single molecules within a cell. In a lecture the students will get an</p>		

	<p>overview of microscopic techniques for biology and the basic principles. To visualize a protein within a cell it can either be labeled with a fluorescent antibody or the targeted protein is modified with an attached fluorescent protein that can be directly visualized with a fluorescent microscope.</p> <p>In the gene cloning sections the students will clone a protein tagged with a fluorescent protein in a eukaryotic expression vector. This vector will be integrated in eukaryotic cells and analyzed with a fluorescent microscope. In the lab work the students will learn the sterile working techniques handling eukaryotic cells, including subculture and transfection of cells. Finally, sample preparation, image processing and data analysis will be part of the lectures and lab work.</p> <p>Experimental Assay development and High Throughput Screening</p> <p>Assay is a very important tool in the research to test the result qualitatively as well quantitatively. According to the parameters involved, the assay must be developed with the potential detection method. Assay optimization will follow to ensure specific and standardized results. However, carrying single assay for the development and optimization of an assay can be tedious. A High Throughput screening method using multichannel pipettes and microtiter plates can speed up the process. After a robust assay is established, screening can be operated simultaneously in microtiter plates. For a huge numbers of screening, a liquid handling robot can be applied to assure a continuous experiment and reliable result.</p> <p>In this course, student will learn the principle of assay development, data processing and High Throughput screening. In the practical work, the students will learn how to optimize a matrix of dilution as well as assays and the application of optimized protocol (ELISA) to quantify a target molecule, including data evaluation and simple statistic. The lectures will include the introduction and preparation of practical work. Each student is encouraged to bring a laptop (with excel program installed) during lectures and lab works.</p>
Remarks	Participation in all extra sessions is mandatory. Extra sessions may be announced during the first meeting.

<b>Cell Biology</b>			
Course Number	00LE62S-LAS-LS0004	Teaching Period	Block III
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Cell Biology	Module(s) (StuPo 2015)	Cell Biology
Open to Students	Years 2, 3, 4 Recommended for Year 2	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	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, 27.04., 13-16h Fri, 04.05., 13-16h Fri, 18.05., 13-16h		
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	Participation in all laboratory sessions is mandatory.		
Examination Date	Mon, 28.05.18, 14-16h		
Text Books	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.		

Neuropsychology			
Course Number	00LE62S-LAS-LS0009	Teaching Period	Block III
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Advanced LS I or II	Module(s) (StuPo 2015)	Advanced LS I, II or III
Open to Students	Years 3 + 4	Max. Enrollment	20
Prerequisites	Introduction to Life Sciences (required) Anatomy and Function of the Brain (recommended)		
Instructor(s)	Dr. Arun D'Souza (dsouza@psychologie.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture/Practical: Mon, 14-16h, KG I 1243 Tue, 14-16h, Ph HS 3 Thu, 14-16h, AU 01042		
Course Description	<p>The human brain is the most complex structure in the universe. The impact of modern neuroscientific research has been continuously increasing on society in general but especially on medicine, education, philosophy, and even marketing. The past decade has brought about sub-disciplines as fancy as Neuroengineering, Neuroeconomics, Neuroethics, and Neuroaesthetics. Cognitive enhancement and Neurogenetics are already beginning to impact the foreseeable future. In order to decide exactly what the hype is about and how to interpret the meaning of recent neuroscientific findings we must learn something about brain basics and the methods that are used to reveal structure and function (such as MRI and EEG).</p> <p>Neuropsychology dates back to the ancient Greeks and studies the brain as the seat of the mind. The focus of this course will be on neurological disorders that shed light on the functions of the different areas of the human brain. Amongst others we will study and discuss the brain disorders of Aphasia, Amnesia, Apraxia and Dementia but also rare phenomena such as Neglect and Synesthesia. The knowledge that is acquired by looking at patients with selective brain lesions may help understand recent neuropsychological therapies such as neurocognitive training and neurofeedback while at the same time giving us insights into the neural function, plasticity, and incredible potential of the healthy human brain.</p>		
Examination Date	Tue, 29.05.2018		
Text Book	Pinel, J. P. (2009). <i>Biopsychology</i> . Pearson education.		

**7.4 Study Area: Governance**

Introduction to Governance (Foundational Year)											
Course Number	00LE62VS-LAS-GO0001	Teaching Period	Block III								
Study Area(s)	Governance, Electives	Credit Points	6 ECTS								
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Introductory Module: Thought and Research in the Area of Governance								
Open to Students	Years 1 + 3	Max. Enrollment	75								
Prerequisites	none										
Instructor(s)	Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de)										
Format, Dates, Times and Rooms	<p>Plenaries (first class on 09.04.2018): Mon, 16-18h, KG I 1221 Tue, 16-18h, KG III 3042</p> <p>Workgroups (12.04., 26.04., 03.05., 17.05.):</p> <table><tr><td>WG1</td><td>WG2</td></tr><tr><td>Thu, 14-16h, BT 101</td><td>Thu, 16-18h, BT 101</td></tr><tr><td>WG3</td><td>WG4</td></tr><tr><td>Thu, 16-18h, AU 01036a</td><td>Thu, 18-20h, BT 101</td></tr></table> <p>Additional dates: Wed, 02.05.2018, 16-18h, KG III 3044 Mon, 28.05.2018, 16-18h, KG III 3219 Tue, 29.05.2018, 16-18h, KG I 1010 Fri, 01.06.2018, 12-14h, KG II 2004</p>			WG1	WG2	Thu, 14-16h, BT 101	Thu, 16-18h, BT 101	WG3	WG4	Thu, 16-18h, AU 01036a	Thu, 18-20h, BT 101
WG1	WG2										
Thu, 14-16h, BT 101	Thu, 16-18h, BT 101										
WG3	WG4										
Thu, 16-18h, AU 01036a	Thu, 18-20h, BT 101										
Course Description	<p>This course will acquaint you with central topics in the study of how human communities govern themselves, give you the appropriate vocabulary to discuss them, and prepare you to understand what ways of presentation, explanation and argumentation are accepted by governance scholars' community.</p> <p>The course is taught in two formats: plenary and workgroup sessions.</p> <p>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"><li>• social contract: How do people come to live together in a state in the first place, according to philosophers?</li><li>• collective action: How do people behave in groups and why?</li><li>• democracy: What are the types of democracy and which type is realized today?</li><li>• politics and administration: What is the role of the trained state officials in a political system based on elections?</li><li>• agenda-setting: How and why do some issues are acted upon at the political level while other important topics are neglected?</li><li>• forecasting: What can we know about the future of socio-political systems and issues?</li></ul> <p>Workgroup sessions (20-25 students) combine plenary session material with analytical skills: interpreting the visuals, working with definitions, understanding political humour, taking part in multilateral negotiations, and preparing a forecast. These sessions are based on group work and require active engagement and participation. Three first workgroup sessions use step-by-step exercises to guide students from basic to more</p>										

	<p>sophisticated analysis; the fourth session uses role play to make sense of theoretical concepts on negotiation presented in readings; the final workgroup session (in plenary, May 28) focuses on the results of block-long group project (political forecast).</p> <p>Requirements:</p> <p>Quizzes in the second, fourth, and seventh week of teaching (30% of the grade)</p> <p>Short written assignment due in the fifth week (20%)</p> <p>Written exam on June 1 (50%)</p> <p>Re-sit exam (100% of the grade) will take place at the end of Block IV (in the week of July 16).</p>
Remarks	<p>The course has regular sessions in the last week of the block, on May 28 (Presentation of forecasts) and May 29 (Exam Info Session), before the written exam on June 1.</p> <p>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.</p> <p>During course registration, please register for both lecture and workgroup.</p>
Examination Date	Fri, 01.06.2018
Recommended Reading	There is obligatory reading for the first session, see ILIAS.



<b>God and Governance: Regulation of Religion in Comparative Perspective</b>			
Course Number	00LE62S-LAS-GO0042	Teaching Period	Block III
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Qualitative and Quantitative Methods, Specialization Option: Law, Politics, Administration Advanced Governance III Elective module (Joker)	Module(s) (StuPo 2015)	Qualitative and Quantitative Methods, Specialization Option: Governance I or II, Advanced Governance III, Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Governance, Comparative Politics/Political Science (preferably)		
Instructor(s)	Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 14-16h, Wilhelmstraße 26 R 00016 Tue, 14-18h, Ph HS 4		
Course Description	In this course we will study government regulation of religion both in democratic and authoritarian countries. The course is divided into three parts. At first we discuss those theories, which focus on explaining the cross-country variation in the relationship between religious actors and the government. After we have gained a firm theoretical background to the topic, we will take a look at data on government regulation of religion. Some very basic quantitative methods are applied to describe and explain the regulation of religion around the world. Finally, we deepen our understanding of the treatment of religious actors by focusing on the relationship between religious actors and the government in particular countries (e.g., Russia, Myanmar, Jordan, Uzbekistan).		
Remarks	Governance students taking this course for the modules Qualitative and Quantitative Methods and Advanced Governance III will have priority over other students. Students who took the course "Religion and Politics" in SS2016 or SS2017 are not allowed to attend this course due to a considerable overlap in course content.		

Understanding Forced Displacement			
Course Number	00LE62S-LAS-GO0038	Teaching Period	Block III
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: Law, Politics, Administration Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20 max.
Prerequisites	Introduction to Governance, Theoretical and Philosophical Foundations of Social and Political Sciences (preferably)		
Instructor(s)	Dr. Franzisca Zanker (franzisca.zanker@abi.uni-freiburg.de) Cita Wetterich (cita.wetterich@unibas.ch)		
Format, Dates, Times and Rooms	Seminar: Tue, 09-12h, AU 01065 Thu, 09-12h, AU 01036a  Additional dates : April 13 – conference attendance		
Course Description	<p>Displacement, refugees and migration have become a defining characteristic of the international landscape. Today, over 60 million people have been forcibly displaced from their homes. Not least since the Cold War, have they featured prominently in public discourse and policy deliberations as well as being a focus in foreign policy, international and national security considerations, military planning and human rights debates.</p> <p>This course is designed to introduce students to the topic of displacement as well as to relevant theoretical approaches in political science and beyond. In addition, students will learn how to draw from abstract theories to policy recommendations for real life problems. It engages with a broad range of questions, including: What is displacement? Is there a difference between voluntary and involuntary mobility? How can we study mass movements? What solutions and approaches do different theoretical fields offer? What are the ethical reservations towards policy solutions? How can practical solutions be crystallized from theoretical suggestions?</p> <p>The course situates displacement as an increasingly central topic in international studies with a direct bearing on a complex web of key political, socio-economic, institutional, legal, security, theoretical and normative issues. The course will highlight a selection of theoretical approaches to displacement from different strands and disciplines located in and around the Political Sciences, such as International Relations, Comparative Studies, Area Studies, and Critical Security Studies and beyond. The regional focus lays primarily on the Global South (South-South displacement) and the European Union (South-North displacement).</p> <p>Class Requirements:</p> <p>The required readings will be available on ILIAS, in the UCF Reading Room or via the University Library. Students are expected to actively participate during the course (including through a student presentation) and submit two written assignments. The course is graded on attendance, active class participation and presentation (30%), a policy brief (20%) and an annotated bibliography (50 %). The deadline for the policy brief is on the 29th April 2018 and for the annotated bibliography the 11th June 2018.</p>		
Remarks	<p>Second-year students wishing to take this course should request entry.</p> <p>Class Excursion: Conference Participation "Innovative Practice Solutions: Lessons from Around the Globe" (Caritas International, Freiburg) on the 13th April (9am – 4pm)</p> <p>Attendance of a conference on April 13 is integral part of the course.</p> <p>Office Hours: by appointment at the Arnold Bergstraesser Institute, Windaustr. 16,</p>		

	Freiburg Compulsory readings for the first session will be available on ILIAS.
Recommended Reading	Preparatory Reading: Guterres, António. 2008. 'People on the Move: The Challenges of Displacement in the 21st Century'. presented at the International Rescue Committee UK Annual Lecture, London, June 16. <a href="http://www.unhcr.org/admin/hcspeeches/48873def4/people-move-challenges-displacement-21st-century-international-rescue-committee.html">http://www.unhcr.org/admin/hcspeeches/48873def4/people-move-challenges-displacement-21st-century-international-rescue-committee.html</a> . Karas, Tania. 2017. 'UN Bid to Improve Migrant, Refugee Response Flounders as Political Will Evaporates'. IRIN, November. <a href="http://www.irinnews.org/analysis/2017/11/30/un-bid-improve-migrant-refugee-response-flounders-political-will-evaporates">http://www.irinnews.org/analysis/2017/11/30/un-bid-improve-migrant-refugee-response-flounders-political-will-evaporates</a> .

**7.5 Study Area: Multiple**

<b>Anthropology - Humans in the Scope of Interdisciplinary Research</b>			
Course Number	00LE62S-LAS-CO0030	Teaching Period	Block III
Study Area(s)	Core, Culture and History, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Anthropology and Experience Specialization Option: Culture Specialization Option: History Elective module (Joker)	Module(s) (StuPo 2015)	Responsibility and Leadership I (for year 3,4 only) or II Specialization Option C+H I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Simone Kraiss (simone_kraiss@eva.mpg.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 10-12h, AU 01036a Wed, 10-12h, AU 01065		
Course Description	<p>Anthropology is the interdisciplinary investigation of human beings. The anthropological approach embeds human phenomena into broader historical, cultural and biological contexts and leads to a deeper understanding of human behavior and the environments we created. On the basis of interesting examples from contemporary research, the seminar introduces you to different anthropological disciplines, the basics of interdisciplinary research and the different ways of thinking in Liberal Arts and Sciences.</p> <p>The first block of the seminar has an introductory character. We will dive deep into human history with the disciplines of Human Evolution, Primatology and Prehistoric Archaeology, encounter contemporary human diversity with Cultural Anthropology, reflect on basic human phenomena throughout history with Historical Anthropology and the human nature itself with Philosophical Anthropology. Additionally, Forensic Anthropology as an application of Prehistoric Anthropology is introduced. Which aspects of human life can be investigated by these disciplines? What are the basic research questions and how are they approached? Which conceptions of the human being are produced? To answer these questions, we will stroll through the anthropological landscapes, get in touch with various topics and above all learn about the huge range of sources and methods that are used by the different anthropological disciplines, reaching from e.g. genetics, skeletal analysis, fieldwork, participant observation to empirical social research. At the same time, contemporary research debates will be addressed.</p> <p>The second block of the seminar has a workshop-character. We will apply the gained knowledge by working out a selection of anthropological topics in a holistic and interdisciplinary way (e.g. self-awareness, migration, rites of passage, use of psychoactive substances and intercultural communication). Especially this combination of anthropological theory and it's application will help you to bring your academic knowledge into a systematic order and builds the ground for a wide-ranging understanding of the basic concepts of Liberal Arts and Sciences and interdisciplinary research.</p>		
Remarks	<p>Priority will be given to StuPo 2012 students.</p> <p>This is one of the last chances for StuPo 2012 students to take the Anthropology and Experience module.</p> <p>The course includes small excursions (tba).</p>		

## 8 Courses Offered in Block IV

### 8.1 Study Area: Core

Positive Leadership			
Course Number	00LE62S-LAS-CO0029	Teaching Period	Block IV
Study Area(s)	Core, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Vision & Leadership, Elective module (Joker)	Module(s) (StuPo 2015)	Responsibility and Leadership I (for year 3,4 only) or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Markus Strauch (markus.strauch@wb.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture: Tue, 14-18h, AU 01065 Thu, 14-16h, BT 101		
Course Description	<p>This course aims at giving students both academic insights and applicable skills in the area of positive leadership (PL). Focusses of this human paradigm of leadership are a) the ability to be aware of one's own strengths as a leader (leading self), b) to connect with, to engage and motivate people you work with appealing to their strengths and passions and (leading others), c) to design strengths-based working environments (leading organizations).</p> <p>After successfully participating in this course you will be able to: a) describe and explain the basics of the positive psychology and positive leadership paradigm and refer them to the social and professional world b) be aware of their own signature strengths and put them into action, c) spot the strengths of other people and formulate suggestions to realize them in action and d) critically evaluate working environments with regard to positive leadership and formulate ideas for designing them with regard to strengths-flourishing and well-being.</p>		
Remarks	<p>Priority will be given to StuPo 2012 students.</p> <p>This is the last chance for StuPo 2012 students to take the Vision &amp; Leadership module.</p>		

**8.2 Study Area: Earth and Environmental Sciences**

<b>Introduction to Earth and Environmental Sciences (Foundational Year)</b>			
Course Number	00LE62V-LAS-EE0001 00LE62S-LAS-EE0001	Teaching Period	Block IV
Study Area(s)	Earth and Environmental Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Introduction to Earth and Environmental Sciences
Open to Students	Year(s) 1, (2)	Max. Enrollment	50
Prerequisites	none		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture: Mon, 10-12h, KG I 1108  Workgroups: WG1 Tue, 12-14h, AU 01036a Wed, 08-12h, AU 01036a		
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 one 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.		

## 8.3 Study Area: Life Sciences

Biochemistry			
Course Number	00LE62S-LAS-LS0002	Teaching Period	Block IV
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Biochemistry	Module(s) (StuPo 2015)	Biochemistry
Open to Students	Years 2, 3, 4 Recommended for Year 2	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 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 three-dimensional 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>		
Text Book	Crowe, J., & Bradshaw, T. (2014). <i>Chemistry for the Biosciences: The Essential Concepts</i> . Oxford University Press. Book is available in the reading room.		

Emerging Infectious Diseases			
Course Number	00LE62S-LAS-LS0022	Teaching Period	Block IV
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Advanced LS I or II, Specialization Option: LS I or II	Module(s) (StuPo 2015)	Advanced LS I, II or III Specialization Option: LS I or II
Open to Students	Years 3 + 4	Max. Enrollment	20
Prerequisites	Cell Biology, Biochemistry		
Instructor(s)	Prof. Dr. Bettina Fries (visiting professor from Stony Brook University) (bettina.fries@stonybrookmedicine.edu)		
Format, Dates, Times and Rooms	Lecture/Seminar: Tue, 03.07., 10.07., 17.07., 08-12h, AU 01036a Wed, 04.07., 11.07., 18.07., 13-16h, AU01065 Thu, 05.07., 12.07., 19.07., 08-12h, AU 01065 Fri, 06.07 (KG I 1023)., 13.07. (AU 01036a), 20.07., 12-16h, (AU 01065)		
Course Description	This is an intensive course by our guest Prof. Fries during the first three weeks of July. Make sure the dates don't overlap with your other courses!  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	Participation in all extra sessions is mandatory.		



## 8.4 Study Area: Governance

International Relations and Institutions			
Course Number	00LE62S-LAS-GO0039	Teaching Period	Block IV
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Comparative Politics Advanced Governance I or II Elective module (Joker)	Module(s) (StuPo 2015)	Global Governance, Political Science Advanced Governance I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	22
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Tue, 09-12h, Ph HS 2 Thu, 09-12h, Ph HS 3		
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 various IR theories, such as realism, idealism, constructivism, gender perspective, environmentalism, and globalization. The focus is therefore not on the “facts” of the international relations, but on the different ideological foundations of IR theories, seen as worldviews. The course is based on the textbook by Cynthia Weber “International Relations Theory. A Critical Introduction” and uses the method of artistic illustration to grasp the powerful beliefs about man, nature, society, politics, and the relationships between them undergirding IR theories. For each theory considered in the course we will watch a popular movie, which illustrates these fundamental beliefs behind theories. The course will therefore require analytic rigor, but also creativity and intellectual flexibility.</p> <p>Learning goals:</p> <ul style="list-style-type: none"> <li>• understand the post-positivist approach to social theory, namely, international relations theory;</li> <li>• understand and learn how to compare major IR theories and classical authors in their interpretation of international politics and institutions;</li> <li>• develop the vocabulary and analytical skills to be able to read, summarize, synthesize and debate academic texts on international relations, global politics and institutions;</li> <li>• 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;</li> <li>• move towards a reflective individual position on international issues and the role of international institutions.</li> </ul> <p>Requirements:</p> <p>To complete the pass/fail requirements (Studienleistung) in this course you need to attend class and actively participate in the discussion, which is key component of this course.</p> <p>The examination in the course consists of a presentation (incl. a detailed handout), a review of another student’s handout (in writing), and an analytical paper on the topic of your choice. Analytical paper submission deadline is August 6, 2018. Re-sit (100% of the grade) is in the form of a long analytical paper on a prescribed topic, due on October 10, 2018.</p>		
Remarks	Second-year students taking this course for the module Global Governance will have priority over other students.		

**8.5 Study Area: Culture and History**

<b>Gender, Queer, Intersectional, and Posthuman Perspectives on Social Change</b>			
Course Number	00LE62S-LAS-CH0038	Teaching Period	Block IV
Study Area(s)	Culture and History, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Culture and History Since the Early Modern Period Advanced C+H I or II	Module(s) (StuPo 2015)	Culture and History Since the Early Modern Period Advanced C+H I, II or III
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Dr. Christa Klein (christa.klein@geschichte.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Tue, 09-12h, AU 01065 Thu, 09-12h, AU 01036a		
Course Description	<p>In this seminar we focus on interactions between socio-cultural change and academic theory in the humanities. We are going to concentrate on theories which are characterized by their social relevance and their explicit reference to society and the public. In which (historical) context did these theories emerge? Which issues do they include, which problems do they tackle? How do they argue? What impact did they have? How did they influence and how did their development – so called paradigm shifts – respond to social change?</p> <p>With these questions in mind we will concentrate on</p> <ol style="list-style-type: none"> <li>1. feminist theory and trace its inclusion of Marxist and Postcolonial perspectives</li> <li>2. its transformation towards (interdisciplinary) gender and queer studies</li> <li>3. its further development toward diversity or intersectionality studies</li> <li>4. critical posthuman perspectives, which broadened the focus from anthropocentric to ecological issues, climate change and bio-technologies.</li> </ol>		
Remarks	This course, in cooperation with the ZAG, will include participation in "Living in Posthuman Worlds."		
Examination Date	Wed, 01.08.2018		

Creating an Exhibition Unit for the UNISEUM: The Alexander Ecker Collection			
Course Number	00LE62S-LAS-CH0030	Teaching Period	Block IV
Study Area(s)	Culture and History, Electives	Credit Points	6 ECTS ECTS
Module(s) (StuPo 2012)	Specialization Option: Culture Specialization Option: History	Module(s) (StuPo 2015)	Specialization Option I or II
Open to Students	Years 3 + 4	Max. Enrollment	8 LAS, 16 other study programs
Prerequisites	The course <i>Human remains exhibited</i> (see p. 58) is a requirement for participating in this course.		
Instructor(s)	Prof. Dr. Veronika Lipphardt; Angela Meran-Witt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Fri, 06.07., 09.30-17h, BT 104 + 106 Fri, 13.07., 09-13h, AU 01 042 + 01 065 Fri, 27.07.: 09.30-17h, AU 01 036a + 01 065		
Course Description	<p>This block course implements the findings from the previous course within the UNISEUM exhibition. It will equip students with practical skills in exhibition conceptualization and design. Realization of the exhibition requires the development of an exhibition concept as well as detail work such as the writing of exhibition texts, the design of multimedia presentations, the search for suitable images and illustrations, the design and conceptualization of PR strategies and instruments.</p> <p>We will build two groups: One for hands-on museological work, the other for PR-related tasks concerning the exhibit.</p> <p>Before online-registration, please indicate your interest to the STS Sekretariat, Silvia Stößer at <a href="mailto:silvia.stoesser@ucf.uni-freiburg.de">silvia.stoesser@ucf.uni-freiburg.de</a>.</p>		

**8.6 Study Area: Multiple**

<b>Ecology - From Genetic Adaptations to Communities</b>			
Course Number	00LE62S-LAS-LSEE0005	Teaching Period	Block IV
Study Area(s)	Earth and Environmental Sciences, Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Ecology, Advanced LS I or II, Elective module (Joker)	Module(s) (StuPo 2015)	Ecology Advanced LS I, II or III, Elective module (Joker)
Open to Students	Years 2, 3, 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, 08-12h, KS 3 (Faculty of Biology, Hauptstrasse 1) Thu, 08-12h, KS 3 (Faculty of Biology, Hauptstrasse 1)		
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	<p>Students majoring in EES have priority.</p> <p>Please check ILIAS ca. 4 weeks before the start of the course for details and reading to prepare you for the lectures.</p>		

<b>Environmental Psychology</b>			
Course Number	00LE62S-LAS-GOEE0005	Teaching Period	Block IV
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option EES I or II Specialization Option: Law, Politics, Administration, Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option EES I or II Humans and the Environment, Specialization Option GOV I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences and/or Introduction to Governance		
Instructor(s)	Dr. Sebastian Götz (sebastian.goetz@ise.fraunhofer.de)		
Format, Dates, Times and Rooms	Lecture/Seminar/Practical: Mon, 14-16h, AU 01036a Tue, 14-18h, KG I 1134		
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"> <li>(1) Orient yourself among existing theories of environmental psychology.</li> <li>(2) Apply psychology theories and models to real-world settings.</li> <li>(3) Elaborate basic designs for environmental interventions.</li> <li>(4) Use environmental methodologies in complex transformation settings.</li> <li>(5) Present/discuss a selected topic and write a paper (short publication).</li> </ol>		
Remarks	Students majoring in EES have priority.		

Environment and History – Excursion to Greece			
Course Number	00LE62S-LAS-CHEE0002	Teaching Period	Block IV
Study Area(s)	Culture and History, Earth and Environmental Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II Human and Environment Advanced C + H I, II or III Culture and History Up to the Early Modern Period Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option: EES I or II Human and Environment Advanced C + H I, II or III Culture and History Up to the Early Modern Period Elective module (Joker)
Open to Students	Years 1, 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences and Introduction to Culture and History		
Instructor(s)	Prof. Dr. Achim Gehrke, Dr. Ryan Plumley, Dr. Sabine Sané		
Format, Dates, Times and Rooms	Seminar/Field trip: One Day Symposium on 20 or 21.07.2018 Excursion: 27.08-04.09.2018		
Course Description	<p>The excursion serves the purpose of research-based, interdisciplinary learning in a practical format, in this case through lessons and exercises on site. As stated in the title, the excursion integrates methods and perspectives from the humanities and the environmental sciences. The destinations in Greece will be the area around the sanctuary of Olympia, the area of Corinth and Elefsina where human-environment interaction across time can be studied particularly well on the basis of physiographic and historical-archaeological conditions. Prof. Gehrke's research and excavation collaborations with relevant on-site institutions (Greek Antiquities Administration, German Archaeological Institute) allow for direct discussion of the course topics with the responsible experts.</p> <p>The main theme of the excursion will be the study of important aspects of Greek cultural history and mythology especially in relation to nature. Students will explore the human awareness of nature in the classical antiquity, the present, and with view to future perspectives in Greece. This includes also the preservation of cultural heritage and eco-responsible management strategies.</p> <p>Pass/fail assessment: Oral talk plus abstract, participation and proactive engagement during the excursion, 500 (+/- 50) words summary for each of the excursion days</p> <p>Graded assessment: 3000-3500 words report</p> <p>Travel Costs:</p> <p>300 Euro pre-payment (includes accommodation (27.8.-4.9.2018), breakfast, travel in Greece and Entrance fees). This pre-payment has to be paid until April 15, 2018. Details via email after the course registration period.</p> <p>On top costs(!): Flight and travel to Olympia as well as accommodation before August 27 and after September 4, food and drink. Information and organization can be provided by lecturers (e.g. flights Basel-Athen-approx 250 Euro, bus ride to Olympia approx. 30 Euros, accommodation approx. 20 – 30 Euro/night).</p> <p>It is highly recommended to have a travel health insurance</p>		

## 9 Semester long Courses

### 9.1 Study Area: Core

Dealing with Numerical Information (Foundational Year)						
Course Number	00LE62VS-LAS-CO0005	Teaching Period	University semester			
Study Area(s)	Core	Credit Points	6 ECTS			
Module(s) (StuPo 2012)	Numerical Literacy	Module(s) (StuPo 2015)	Dealing with Numerical Information			
Open to Students	Year 1 (2)	Max. Enrollment	90			
Prerequisites	none					
Instructor(s)	Dr. Simon Büchner (simon.buechner@ucf.uni-freiburg.de) Dr. Sebastian Gehart (sebastian.gehart@ucf.uni-freiburg.de)					
Format, Dates, Times and Rooms	Lecture: Mon, 8:30-10h, KG I 1015					
	Workgroups: <table><tr><td>WG1 (Büchner + tutor) Mo, 12-14, Ph HS 3 Thu, 12-14h, KG I 1140</td><td>WG2 (Gehart + tutor) Tue, 10-12h, Ph HS 3 Thu, 12-14h, KG I 1142</td></tr><tr><td>WG3 (Gehart + tutor) Wed, 10-12h, KG I 1140 Thu, 18-20h, KG I 1132</td><td>WG4 (Büchner + tutor) Wed, 12-14h, AU 01036a Fri, 10-12h, AU 01036a</td></tr></table>			WG1 (Büchner + tutor) Mo, 12-14, Ph HS 3 Thu, 12-14h, KG I 1140	WG2 (Gehart + tutor) Tue, 10-12h, Ph HS 3 Thu, 12-14h, KG I 1142	WG3 (Gehart + tutor) Wed, 10-12h, KG I 1140 Thu, 18-20h, KG I 1132
WG1 (Büchner + tutor) Mo, 12-14, Ph HS 3 Thu, 12-14h, KG I 1140	WG2 (Gehart + tutor) Tue, 10-12h, Ph HS 3 Thu, 12-14h, KG I 1142					
WG3 (Gehart + tutor) Wed, 10-12h, KG I 1140 Thu, 18-20h, KG I 1132	WG4 (Büchner + tutor) Wed, 12-14h, AU 01036a Fri, 10-12h, AU 01036a					
Course Description	The course introduces students to working with numerical data in a scientific and non-scientific context. Students procure basic theoretical and practical knowledge of probability theory, descriptive and inferential statistics, and learn about collecting and visualizing data. Basic theoretical knowledge of probability theory and descriptive and inferential statistics are presented during lectures. The acquired knowledge is then placed in context, discussed and applied in workgroups and software tutorials using the R software for statistical computing and graphics.					
Text Books	Field, Miles & Field (2012). <i>Discovering Statistics Using R</i> . London: SAGE Publications Ltd. Moore & McCabe (7th ed.) (2012). <i>Introduction to the Practice of Statistics</i> . New York: W.H. Freeman and Company.					
Remarks	The lecture and the workgroups are setup as two courses in HISinOne. Please register for the workgroup only.					
Examination Dates	Mon, 16.7, 8:15-9:45h.					

Living Knowledge: An Introduction to Qualitative Research (Foundational Year)									
Course Number	00LE62V-LAS-CO0028	Teaching Period	University semester						
Study Area(s)	Core	Credit Points	6 ECTS						
Module(s) (StuPo 2012)	Knowledge in Context	Module(s) (StuPo 2015)	Knowledge in Context						
Open to Students	Years 1, 2, 3	Max. Enrollment	100						
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 III 3042</p> <p>Workgroups:</p> <table><tr><td>WG1 Thu, 16-18h, BT 106</td><td>WG2 Thu, 16-18h, Ph HS 2</td></tr><tr><td>WG3 Thu, 18-20h, Ph HS 1</td><td>WG4 Thu, 18-20h, BT 206</td></tr><tr><td>WG5 Fri, 08-10h, AU 01 036a</td><td></td></tr></table>			WG1 Thu, 16-18h, BT 106	WG2 Thu, 16-18h, Ph HS 2	WG3 Thu, 18-20h, Ph HS 1	WG4 Thu, 18-20h, BT 206	WG5 Fri, 08-10h, AU 01 036a	
WG1 Thu, 16-18h, BT 106	WG2 Thu, 16-18h, Ph HS 2								
WG3 Thu, 18-20h, Ph HS 1	WG4 Thu, 18-20h, BT 206								
WG5 Fri, 08-10h, AU 01 036a									
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> <p>The course consists of four parts:</p> <ol style="list-style-type: none"><li>1. In the first half of each weekly lecture, we will discuss historical and contemporary examples of knowledge, along with theoretical perspectives, such as tacit knowing, social constructivist or cognitive theories.</li><li>2. In the second half of each weekly lecture, we will look into various aspects of academic/ scientific work, such as “How do researchers come to choose an object to study, a research design,” “What does it mean for students to become socialized into a discipline” etc.</li><li>3. In the workgroups, students will discuss texts and will gain insights into ethnographic methods (e.g. interviews and participatory observation), as applied to the broad topic of “knowledge experiences in everyday life”.</li><li>4. Students must also attend 3 of the 5 meetings of the STS Colloquium, which this semester features world-renowned senior scholars in science and technology studies, who directly engage questions about knowledge relevant to the course. Colloquium meetings include a talk and an open discussion. <b>During weeks with colloquium</b></li></ol>								



	<p><b>meetings (see below), regularly scheduled workshops DO NOT MEET.</b></p> <p>Colloquium (for information on the speakers see also page 37)</p> <p><b>Students enrolled in an Introduction to Governance workgroup on Thursdays at 16.00 in Block III should plan to attend the talks indicated with an * to avoid scheduling conflicts</b> (note that Introduction to Governance workgroups will not meet on 19.04., and the final two colloquium meetings occur after the conclusion of Block III).</p> <p>19.04., Jenny Reardon (University of California, Santa Cruz)*</p> <p>03.05., Susan Jones (University of Minnesota, Twin Cities)</p> <p>17.05., Nancy Campbell (Rensselaer Polytechnic Institute)</p> <p>14.06., Anne Harrington (Harvard University)*</p> <p>05.07., Sheila Jasanoff (Harvard Kennedy School of Government)*</p>
Remarks	<p>LAS students should complete the module Knowledge in Context in their first year. For students who started their degree in 2015 or 2016, we do not guarantee places in a course for this module at a later stage during their studies.</p> <p>The lecture and the workgroups are setup as two courses in HISinOne. Please register for the workgroup only.</p>

Colloquium Science and Technology Studies			
Course Number	00LE62S-LAS-IN0002	Teaching Period	University semester
Study Area(s)	Electives	Credit Points	3 (SL or PL) ECTS
Module(s) (StuPo 2012)	Elective module (Joker)	Module(s) (StuPo 2015)	Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	for LAS students who want to obtain credit points: Science in Context.		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Colloquium (bi-weekly): Thu, 16-17.30h, University of Freiburg Library, Veranstaltungssaal (1. OG)		
Course Description	<p>In summer semester 2018, the Chair in Science and Technology Studies will welcome renowned senior colleagues from the international STS research community for talks and extended discussions. The broad theme of the colloquium series is "Society/ Biology/Environment," and in addition to hearing talks on current research, we will discuss prospects for STS in Germany.</p> <p><b>Jenny Reardon</b>, 19.04.2018 University of California, Santa Cruz (Sociology and the Science and Justice Research Center). Author of The Postgenomic Condition: Ethics, Justice, Knowledge After the Genome.</p> <p><b>Susan Jones</b>, 03.05.2018 University of Minnesota, Twin Cities (Program in History of Science, Technology, and Medicine and the Department of Ecology, Evolution, and Behavior). Author of Death in a Small Package: A Short History of Anthrax.</p> <p><b>Nancy Campbell</b>, 17.05.2018 Rensselaer Polytechnic Institute (Department of Science, Technology, and Society). Co-author of Gendering Addiction: The Politics of Drug Treatment in a Neurochemical World.</p> <p><b>Anne Harrington</b>, 14.06.2018 Harvard University (History of Science). Author of The Cure Within: A History of Mind-Body Medicine.</p> <p><b>Sheila Jasanoff</b>, 05.07.2018 Harvard Kennedy School of Government. Author of Designs on Nature: Science and Democracy in Europe and the United States.</p> <p>Before online-registration, please indicate your interest to the STS Sekretariat, Silvia Stößer at <a href="mailto:silvia.stoesser@ucf.uni-freiburg.de">silvia.stoesser@ucf.uni-freiburg.de</a>.</p>		
Remarks	<p>Note that students enrolled in Living Knowledge are required to attend 3 of 5 of the Colloquium talks as part of the Studienleistung of Living Knowledge. You may also register separately for the Colloquium if you attend all talks.</p> <p>Open to students of other programs interested in STS.</p>		

Ignorance, Uncertainty, Unknowns			
Course Number	00LE62S-LAS-CO0031	Teaching Period	University semester
Study Area(s)	Core, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Knowledge in Context, Elective module (Joker)	Module(s) (StuPo 2015)	Science in Context, Elective module (Joker)
Open to Students	Years 3 + 4	Max. Enrollment	20 (10 LAS + 10 Others)
Prerequisites	none		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture/Seminar: Thu, 12-14h, KG I 1023		
Course Description	<p>This course has two components: First, it takes us through some classical and some recent STS readings regarding ignorance. Second, we will attend the FRIAS Lunch Lectures every second week and discuss each of them afterwards:</p> <p><b>Matthias Groß</b>, 03.05.2018 "Back to the Unknown: How Ignorance can be Useful", Urban and Environmental Sociology</p> <p><b>Oliver Bräunling</b>, 17.05.2018 Mathematics</p> <p><b>Majid Daneshgar</b>, 07.06.2018 Religion and Islamic Studies</p> <p><b>Stefan Schmidt</b>, 14.06.2018 "Hidden Rituals in Medicine", Psychology</p> <p><b>Stefan Buhmann</b>, 21.06.2018 Physics</p> <p><b>Lorena Bachmaier</b>, 28.06.2018 Law</p> <p><b>Anne Harrington</b>, 05.07.2018 History of Science and Medicine</p> <p><b>Paolo Silvestri</b>, 12.07.2018 (Legal and Political Philosophy)</p> <p><b>Gunther Neuhaus</b>, 19.07.2018 Biology</p> <p>Students submit an essay as a graded exam within six weeks after the end of the seminar.</p> <p>Before online-registration, please indicate your interest to the STS Sekretariat, Silvia Stößer at <a href="mailto:silvia.stoesser@ucf.uni-freiburg.de">silvia.stoesser@ucf.uni-freiburg.de</a>. Students will then be provided with the copies of texts that they are requested to read before the course starts.</p>		

**9.2 Study Area: Earth and Environmental Sciences**

<b>Emerging and Future Photovoltaic Technology Options</b>			
Course Number	tba	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option: EES I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	none
Prerequisites	Introduction to Earth and Environmental Sciences, Course about PV Technology		
Instructor(s)	Dr. Jan Christoph Goldschmidt		
Format, Dates, Times and Rooms	Lecture/Seminar: Th, 08-10h, SR 01-018, Georges Köhler Allee 101 Fr, 08-10h, 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 &amp; 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: March 5 – April 1, 2018 Exam registration: June, 1 - July 13, 2018 Period during which examination can take place: August 20 – September 29, 2018 More information via email to <a href="mailto:sabine.sane@ucf.uni-freiburg.de">sabine.sane@ucf.uni-freiburg.de</a>.</p>		

Energy in Buildings			
Course Number	tba	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	3 ECTS (+ 3 ECTS in winterterm)
Module(s) (StuPo 2012)	Elective module (Joker)	Module(s) (StuPo 2015)	Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	none
Prerequisites	Introduction to Earth and Environmental Sciences, Solar Energy (!)		
Instructor(s)	Prof. Dr. Hans-Martin Henning		
Format, Dates, Times and Rooms	Lecture/Seminar Mo, 14-16h, SR 01-018, Georges Köhler Allee 101		
Course Description	<p>The students know the influencing factors on the energy demand of buildings. They know about the requirements and prerequisites for low energy and passive houses. They are familiar with methods for setting up energy balances for buildings and the relevant technical indoor equipment. Students are able to judge under which circumstances zero-energy or plus-energy buildings (with respect to the annual primary energy balance) are attainable. They know the requirements and criteria for indoor comfort in buildings and they are able to estimate the influence of different renovation and retrofit measures on the energy demand and indoor comfort. They know use cases and limits of different heat transfer systems for heating and cooling of indoor environments and are familiar with low exergy concepts for building energy system•Selected chapters of building physics regarding energy demand of buildings for heating and cooling</p> <ul style="list-style-type: none"> <li>• Indoor comfort in buildings</li> <li>• Ventilation demand and ventilation concepts</li> <li>• The passive house concept</li> <li>• Passive use of solar energy in buildings; physics of transparent building components</li> <li>• Passive systems / concepts for cooling of buildings</li> <li>• Exergetic evaluation of building systems</li> <li>• Heat transfer systems to rooms for heating and cooling</li> <li>• Efficient energy conversion chains, „low-ex“ systems</li> </ul>		
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: March 5 – April 1, 2018 Exam registration: June, 1 - July 13, 2018</p> <p>Period during which examination can take place: August 20 – September 29, 2018</p> <p>More information via email to <a href="mailto:sabine.sane@ucf.uni-freiburg.de">sabine.sane@ucf.uni-freiburg.de</a></p>		

Photovoltaic Lab			
Course Number	tba	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option: EES I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	2
Prerequisites	Introduction to Earth and Environmental Sciences, Solar Energy (!)		
Instructor(s)	Prof. Dr. Stefan Glunz		
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.</p> <p>Course registration: March 5 – April 1, 2018 (via email to <a href="mailto:sabine.sane@ucf.uni-freiburg.de">sabine.sane@ucf.uni-freiburg.de</a>)</p> <p>Exam registration: June, 1 - July 13, 2018</p> <p>Period during which examination can take place: August 20 – September 29, 2018</p> <p>More information via email to <a href="mailto:sabine.sane@ucf.uni-freiburg.de">sabine.sane@ucf.uni-freiburg.de</a>.</p>		

Resilienz und Kollaps ökologisch-ökonomischer Systeme			
Course Number	tba	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option EES I or II	Module(s) (StuPo 2015)	Specialization Option EES I or II Human and the Environment
Open to Students	Years 2, 3, 4	Max. Enrollment	7
Prerequisites	Introduction to EES		
Instructor(s)	Prof. Dr. Stefan Baumgärtner (stefan.baumgaertner@ere.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Fri, 27.04., 9:15-12:30h, R 211 Herder-Gebäude (introduction) Fri, 04.05., 9:15-10h, R 211 Herder-Gebäude (topics) Thu, 19.07., 14h - Sat, 21.07, 13h, R 400, Herder-Gebäude (block seminar)		
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 majoring students have priority. Registration via email to sabine.sane@ucf.uni-freiburg.de during the course registration phase.		
Recommended Reading	<p>W.A. Brock, K.-G. Mäler and C. Perrings (2001), Resilience and sustainability: the economic analysis of nonlinear dynamic systems, in L.H. Gunderson and C.S. Holling (eds), <i>Panarchy. Understanding Transformations in Human and Natural Systems</i>, Island Press, Washington DC, pp. 261–289</p> <p>Resilience Alliance, <i>Key Concepts</i>, available at <a href="http://www.resalliance.org/key-concepts">http://www.resalliance.org/key-concepts</a></p> <p>B. Walker, C.S. Holling, S. Carpenter and A. Kinzig (2004), Resilience, adaptability and transformability in social-ecological systems, <i>Ecology and Society</i> 9 (2): 5 (<a href="http://www.ecologyandsociety.org/vol9/iss2/art5/">www.ecologyandsociety.org/vol9/iss2/art5/</a>)</p> <p>B. Walker and D. Salt (2006), <i>Resilience Thinking. Sustaining Ecosystems and People in a Changing World</i>, Washington DC: Island Press</p>		

The Earth in the Universe			
Course Number	00LE62S-LAS-EE0006	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences, Electives for other majors only	Credit Points	6 ECTS
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	Years 2, 3, 4	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, KG I 1016 Wed, 16-18h, KG I 1016		
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"> <li>• 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')</li> <li>• Data analysis of spectroscopic data to study the plasma flow field on the solar surface: granulation &amp; sunspots.</li> <li>• 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 (<a href="http://www.kis.uni-freiburg.de">www.kis.uni-freiburg.de</a>) 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.</li> </ul> <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,</p>		



neutron stars, black holes).

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.

In addition to the lecture contents, practical classes are method-oriented and will deal with:

- 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](http://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.

Field Excursions			
Course Number	00LE62S-LAS-EE0007	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences, Electives for other majors only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Observing Nature	Module(s) (StuPo 2015)	Observing Nature
Open to Students	Years 2, 3, 4	Max. Enrollment	15
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Dr. Sabine Sané, Dr. habil. Eckart Stein (sabine.sane@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	20.4., 27.4., 4.5., 11.5. Ersatz, 18.5., 8.6., 15.6., 29.6., 6.7. Ersatz		
Course Description	<p>This course will take place in form of seven field excursion to different areas close to Freiburg during the whole summer semester. We will explore geological and geomorphological features, their related processes (e.g. rock and soil formation, weathering) and natural phenomena (e.g. soil erosion). Thereby, you will additionally get an overview on fundamental techniques and methods of their analyses and documentation. Furthermore, you will get introduced to the vegetation science by using qualitative and quantitative methods in vegetation science. You will learn how to identify plants and plant societies in different areas with different conditions and how these conditions. Furthermore, you will be able to quantify the biodiversity of different areas and to analyze the reasons behind it. You will also practice orienting in the field using topographic maps.</p> <p>The course provides hands - on experience in the determination and documentation of different types of rocks, geological features and vegetation characteristics using various techniques e.g. vegetation identification keys, hand lens, geological compass, geologic profiles and topographic/geologic maps. Different rock types will be analyzed and classified according to actual geological observations and interpretations. One field trip will lead us to an outcrop, which exposes clastic sediments. We will describe all visible geological features and will try to reconstruct its sedimentological history and its paleo- environmental conditions (facies analysis). Another field trip introduces us to chemical sediments. Again we will get to know different rock types of the same lithology, which are due to different depositional and different climate conditions during sedimentation. A third outcrop will provide us with metamorphic rocks which, nevertheless tells us a story of a hazardous event next to Freiburg, but hundreds of million years ago. From all these different outcrops we will get insight to different lithologies but also to very different paleo- environmental, paleo- climatic and paleo- biological conditions. After we have reconstructed parts of the very old history of the Freiburg area, we will combine that knowledge with the today's landscape and its development through time. The characterization of vegetation will be conducted in three different and very divers locations, these will be the alpine vegetation on the Feldberg mountain, the vegetation on Schönberg and the Ruderal vegetation at Freiburg city. Different vegetation maps will be conducted to learn the basic techniques required to make evaluations about landscapes in respect to their vegetation.</p>		
Remarks	<p>Consider the possibility to get a vaccination at the doctor for the tick borne encephalitis before the course. This is however not required to participate in the course.</p> <p>Students who major in EES have priority.</p>		

## 9.3 Study Area: Life Sciences

Introduction to Life Sciences (Foundational Year)			
Course Number	00LE62V-LAS-LS0001	Teaching Period	University semester
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Introduction to Life Sciences
Open to Students	Year 1 (2)	Max. Enrollment	65
Prerequisites	-		
Instructor(s)	Dr. Simon J. Büchner (buechner@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture: Tue, 08:30-10h, KG III 3042		
	Workgroups: WG1 Tue, 14-16h, Ph HS 2 WG3 Wed, 16-18h, Ph HS 1 WG5 Wed, 12-14h, Ph HS 1 WG2 Tue, 14-16h, KG I 1227 WG4 Wed, 16-18h, KG I 1227		
Course Description	<p>The course will cover basic concepts in the Life Sciences. In particular, it will cover the biological and psychological systems that sustain a human being and allow for interaction with a complex environment. This includes perception and cognition, physiological systems, and the functioning of cells. Besides the structures and processes that make up these systems, students will become familiar with methods from the Life Sciences that are employed to investigate these systems.</p> <p>In Work Groups, students will research, present and discuss challenges from the fields of Cell Biology, Physiology, Neurobiology and Psychology. For this, we will employ the problem-based/case-based learning (PBL/CBL) method. In PBL/CBL students are provided with short descriptions of cases, e.g. the description of a patient showing particular symptoms. In the pre-discussion the group discusses the problem; students share the knowledge they already have with respect to the topic in question and agree on learning goals and research tasks. In the post-discussion during the following meeting students bring together the results of their research and discuss the problem again in the context of the newly acquired information. A short training on PBL/CBL will be provided during the first work group meeting.</p>		
Examination Date	Tue, 17.07.18		
Text books	<p>Sherwood (2015) <i>Human Physiology: From Cells to Systems</i>. Cengage learning.</p> <p>Fox (2011) (12<sup>th</sup> ed.) <i>Human Physiology</i>, McGraw-Hill, New York</p> <p>Kandel, Schwartz, et al. (2012) (5<sup>th</sup> ed.) <i>Principles of Neural Sciences</i>, McGraw-Hill, New York</p>		

<b>Genetics and Molecular Biology: Genealogy of a Science</b>			
Course Number	00LE62S-LAS-LS0023	Teaching Period	University semester
Study Area(s)	Life Sciences, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Advanced LS I or II	Module(s) (StuPo 2015)	Advanced LS I, II or III
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Cell Biology (or take the Cell Biology course in parallel)		
Instructor(s)	Theresa Schredelseker (schredet@tcd.ie)		
Format, Dates, Times and Rooms	Seminar: Mon, 16-18h, SR 1051 (Bio I) Wed, 16-18h, SR 1051 (Bio I) (18.+25.04.), SR 1048 (Bio I) (from 02.05.)		
Course Description	<p>When flicking through science sections of newspapers these days readers repeatedly come across the catchy acronym CRISPR and its role in what is referred to as Genome Editing. To avoid being carried away by hope, hype or fear narratives it is necessary to understand both underlying principles and potential impacts of those game-changing molecular instruments. The aim of this course is to provide basic, yet thorough knowledge of both genetics and molecular biology while recapitulating the sequence of experiments and discoveries from which our current models were inferred.</p> <p>A lecture-like first part of the course follows the history of genetics from early animal and plant domestication to the deciphering of the genetic code in the early and mid-1960s. During and following this section, current textbook knowledge on structure and replication of DNA, mitosis and meiosis, DNA damage and repair, transcription and translation, gene regulation and basic cell signaling principles will be covered. Thereby students will understand the biochemical foundations of information storage, maintenance and propagation within cells. It will also become clear how genetic information is used and that this process needs to be painstakingly regulated, for cells in tissues as diverse as the brain and the liver in order to accomplish fundamentally different functions, despite sharing the same genome. While the main focus will be cell physiology in healthy organisms, we will also discuss how imbalances on different molecular levels can lead to cancer and other diseases.</p> <p>We will then approach the advent of modern molecular biology, marked by the generation of the first recombinant DNA and transgenic laboratory animals in the 1970s. While discussing the rapidly expanding gene- and biotechnology sector of the following decades, crucial laboratory techniques, such as molecular cloning, DNA sequencing, PCR, blotting, chromatography and immunohistochemistry, are explained. A special focus will be the turn from forward to reverse genetics, which is currently driven by the introduction of targeted nucleases like CRISPR, allowing genome editing with unprecedented precision. This will enable students to develop an informed opinion on current biomedical breakthroughs associated with these techniques. With comprehensive knowledge of both subject and methodology, students will be able to read and analyze present-day research articles from the field of genetics. Selected cornerstone articles from the last decade are going to be presented and critically discussed by the participants during the last section of the course, which will resemble the structure of a traditional journal club.</p>		
Examination Date	Wed, 18.07.2018		
Recommended Reading	Alberts, B. (2014). <i>Molecular Biology of the Cell</i> . Garland Sci, New York.		

**9.4 Study Area: Governance**

<b>Comparative Politics</b>			
Course Number	00LE62S-LAS-GO0028	Teaching Period	University semester
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Comparative Government Advanced Governance I or II Elective module (Joker)	Module(s) (StuPo 2015)	Political Science Advanced Governance I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	22
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 10-12h, KG I 1234 Wed, 10-12h, KG I 1234		
Course Description	In this course we learn about political systems around the world from a comparative political science perspective. The course is divided into two parts. The first part focuses on authoritarian regimes. In particular, we study the differences between the authoritarian countries regarding the ruling elite, co-optation and repression. In the second part of the course we study democratic countries and discuss, for example, horizontal and vertical separation of powers, electoral systems, political parties and party systems. Throughout the course we discuss comparative method, comparative datasets, and writing of research papers.		
Remarks	Second-year Governance students are strongly encouraged to take this course for the module Political Science. Second-year Governance students have priority in this course. This course offers the fundamental knowledge about the organization of power in states, necessary for advanced courses and very useful for any future career related to government, international organizations, and NGOs.		

International Security			
Course Number	00LE62VS-LAS-GO0018	Teaching Period	University semester
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Advanced Governance III Specialization Option: Law, State, Society Elective module (Joker)	Module(s) (StuPo 2015)	Global Governance Advanced Governance III Specialization Options I or II, Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20 max.
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 10-12h, KG I 1032 Wed, 10-12h, KG I 1227		
Course Description	<p>The International Security course surveys the various debates, concepts and issues around security and securitization from legal, political and economic interdisciplinary perspectives. The semester-long course introduces a broader conception of 'security', which focuses not only on states and international organizations but also on individuals. The course looks at the thread of human security in the fields of human rights, the law of armed conflict (war), economic and social inequality and discrimination, terrorism and cybersecurity among other relevant topics. The emphasis is on dealing with classical debates on international security as well as novel approaches to the topic. By examining primary materials and their interaction with contemporary security-related issues and dilemmas, students shall gain competences in reading and applying various sources.</p> <p>The class will be divided in several parts. Part I of the course deals with foundational techniques and paradigms of securitization in the international realm. Part II deals with in-depth security-related topics and problems such as social, economic and gender-based inequality, vulnerability and discrimination. Part III centers on recent practical issues in International Security such as international interventions, Responsibility to Protect, migration, terrorism, collective security and cybersecurity.</p> <p>The course will employ concrete examples, case studies and interactive exercises in order to contextualize the approaches and tools, and highlight linkages between theory and practice.</p> <p>Students will be required to submit one mini-review/discussion essay/paper (1500-2000 words) on an assigned topic.</p> <p>Students will be required to submit a proposal, and research paper or a paper analysing a case study/problem and recommendation of solutions on a topic related to international security. The research paper will be due at the end of July/early August 2018.</p> <p>Students may be required to participate in group activities and presentation projects.</p> <p>The class will be highly interactive. Attendance and engaged participation is essential both to your ability to absorb the information and to the effective functioning of the classroom environment.</p> <p>Selected readings include B. Buzan, <i>Security: A New Framework for Analysis</i>.</p>		
Remarks	Second-year students wishing to take this course should request permission for enrollment from the instructor.		

Law, State, Society			
Course Number	00LE62S-LAS-GO0033	Teaching Period	University semester
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Law Advanced Governance I or II Elective module (Joker)	Module(s) (StuPo 2015)	Law Advanced Governance I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20 max.
Prerequisites	Introduction to Governance		
Instructor(s)	Clara Rigoni (c.rigoni@mpicc.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 16-18h, Ph HS 2 Wed, 16-18h, Ph HS 2		
Course Description	<p>The course "Law, State, Society" will deal with the concept of law, its interpretation and application, and its interaction with the State and the society.</p> <p>The course will start with an analysis of the concept of the rule of law and the role it plays in democratic orders, touching upon the acceptance and obedience of the law and the authority of the State. The work of sociologists such as Marx, Durkheim, Weber (among others) will be used to explain the creation and functioning of the law, the role and organization of the state, and their interaction with society. Major theories of law, such as natural law and positivism will also be examined.</p> <p>The course will then focus on major conflicts affecting today's multicultural societies. On the one hand, the high levels of diversity characterizing contemporary societies bring to forms of cultural and legal pluralism, in which religious, customary or other informal systems of norms challenge the validity of the official law and the authority of the state (see, e.g., the debate on Sharia Councils in the United Kingdom and Canada). Ethnic and religious minorities increasingly ask for some degree of autonomy in the resolution of disputes or apply their customary norms as an alternative to state law. On the other hand, cultural and religious traditions often conflict with the laws of the state and international human rights law, challenging the concepts of equality, (non-)discrimination, autonomy, freedom, justice. In connection to that, the relationship between cultural relativism and women rights will be analyzed through feminist theories. Contentious practices such as circumcision, female genital mutilation but also forced marriages and honor killings will be examined in the context of the relation between immigration and crime and the interaction between cultural diversity and criminal law (see, e.g., the debate on so-called "cultural defense").</p> <p>Form of evaluation and assessment: regular attendance to classes; individual oral presentation; final written exam.</p>		
Remarks	<p><b>The seminar takes place from 07.05.-18.07.2018.</b></p> <p>Senior students who need to complete the module Law can take this course in fulfilment of the module requirements. Taking this course after having taken Principles of Law is not possible, as courses cover similar material (though not the same).</p> <p>Non-Governance students are welcome to join!</p>		

Principles of Law			
Course Number	00LE62S-LAS-GO0004	Teaching Period	University semester
Study Area(s)	Governance, (not open as Elective!)	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Law	Module(s) (StuPo 2015)	Law
Open to Students	Years 2 (3, 4)	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture/Seminar: Mon, 16-18h, AU 01065 Wed, 16-18h, AU 01065		
Course Description	<p>The Principles of Law course provides a general introduction to basic and fundamental legal concepts. The course looks at the interplay between law, society, governance and politics. It is not exclusively structured on narrow examination and analysis of domestic legal systems but aims to provide an overview of legal principles that are also applicable across supranational, transnational and international legal orders. The emphasis is on the jurisprudential reasoning and applicability of principles of law governing legal relations. By examining primary legal materials and their interaction with contemporary public policy issues and dilemmas, students shall gain competence in reading and applying legal sources, and in understanding the impact of law on decision-making at different levels of governance. Students will analyse and master the logic, structure, applicability, and language of law and topics such as rights, obligations, responsibility, and immunities among others.</p> <p>Part I of the course deals with foundational legal techniques, jurisprudence and theory of law by analysing the differences and similarities of the approaches towards legal principles of Natural Law, Legal Positivism, Constructivism, Feminism and modern Critical Theories. Part II focuses on the institutions and principles of law such as non-discrimination, the rule of law, equality, reasonable expectations, legal certainty, constitutional and statutory approaches, legal interpretation techniques common among various legal orders. Part III centers on the applicability of the legal principles and theory in reality by examining the relationship between law and policy-making in the realms of human rights law, civil law, and criminal law, and by comparing diverse forms of law, systems of law, legality, and legal orders.</p> <p>Upon successful completion of this course:</p> <ol style="list-style-type: none"> <li>1) Students should be able to understand, analyze and apply the main principles of law;</li> <li>2) Students should be able to identify and interpret differences in the jurisprudential approach towards fundamental principles of various legal orders;</li> <li>3) Students should be able to clearly use appropriate legal language;</li> <li>4) Students should become aware of theoretical and practical problems in understanding the law and its main principles.</li> </ol> <p>Form of evaluation and assessment: Pass/fail: Regular attendance of classes and active participation in group work and exercises. Graded exam: Written assignments, and/or presentations, and written exam. The final component of the assessment is expected to be administered in the week of 9-13 July 2018.</p>		
Remarks	<p>Second-year Governance students are strongly encouraged to take this course. No priority for senior students in this course!</p> <p>If not taking this module in the second year, please contact the coordinator of the Major. The course is closed to students from other Majors.</p>		



Qualitative Research Methods for the Social Sciences: Insights in Research on Terrorism and Counterterrorism			
Course Number	00LE62S-LAS-GO0036	Teaching Period	University semester
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Qualitative and Quantitative Methods Advanced Governance I or II Specialization Option: Law, Politics, Administration Elective module (Joker)	Module(s) (StuPo 2015)	Qualitative and Quantitative Methods Advanced Governance I or II Specialization Option GOV I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20 max.
Prerequisites	Introduction to Governance		
Instructor(s)	Anina Schwarzenbach (a.schwarzenbach@mpicc.de)		
Format, Dates, Times and Rooms	Seminar, Project work: Tue, 12-14h, AU 01065 Thu, 12-14h, AU 01065		
Course Description	<p>This course introduces qualitative research methods used in social sciences, drawing on examples from actual academic research. My own research, which I will use to explain and illustrate research design choices and strategies, focuses on terrorism and counterterrorism. More specifically, based on a systematic, comparative approach I study contemporary strategies to counter terrorism and radicalization adopted by democratic states nationally and at the international level. I will share my experience in planning and carrying out independent research with the aim of teaching you how to design a qualitative research project. For example, we will try to answer question such as: what is the most suitable approach and method for my research? How to select the appropriate site / place for my study? How to delimit a sample of the population or policy for a limited study of a complex phenomenon? How to collect valid qualitative data?</p> <p>The course gives an overview of the most common methods of data collection in qualitative research and then <b>focuses on case studies</b>. It begins with a review of the ontological and epistemological foundations of research paradigm and outlines the criteria for judging the quality of research based on qualitative methods. It discusses how to identify suitable research problems and address the issue of consistency between research questions, theory and methods adopted. The course guides students in applying different technics of data analysis, e.g., content analysis and coding procedures. The course also touches upon the issue of research ethics.</p> <p>This course is focused on method and organized around a research project. Students will work on one small project on a topic related to the research on terrorism and counterterrorism and by the end of the course, they will report their research findings in the form of an oral presentation and a short written well-designed project proposal.</p> <p>Form of evaluation: In-class and outside of class exercises, oral presentation and written research proposal.</p>		
Remarks	Non-Governance students are welcome to join!		

<b>Sociological Theory and the Quest for Social Order</b>			
Course Number	00LE62S-LAS-GO0032	Teaching Period	University semester
Study Area(s)	Governance, Electives	Credit Points	6 ECTS
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	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Gernot Saalman (gernotsaalman@yahoo.de)		
Format, Dates, Times and Rooms	Seminar: Block I: Thu, 14-16h, AU 01065  Block II: Mon, 14-16h, AU 01065 Thu, 14-16h, AU 01065		
Course Description	<p>After a quick look at the reasons why sociology and other social sciences established themselves as a science, in the first sessions of the course a fruitful way to differentiate between three basic forms of sociological theories is explained. Objectivists concentrate on larger determinants like functions, structures or systems, whereas subjectivists take the perspective of the acting individuals and see how they built up social institutions. Relationists look at the relations between individuals and individuals and groups.</p> <p>The remaining part of the semester is spent with a closer look at major sociological theories (Marx, Weber, Durkheim, Simmel, Parsons, Luhmann, Berger/Luckmann, Habermas, Elias, Bourdieu, Latour, Foucault). While doing this, a focus is set on how they explain social inequality. With this, a point for comparison of the theories is at hand.</p> <p>The aim of the course, therefore, is to provide knowledge of the history of social thought and to create the ability to evaluate the explanatory power of various theories. How do different theories explain social action and its results? During a usual day we come in contact with so many different people, but still this creates not many problems. How do various theories explain why only seldom there is explicit misunderstanding or deep conflict despite the complexity of social life? What is the connection between individual freedom and social (and political) order?</p> <p>Teaching methods: lectures, joint discussion of texts.</p> <p>Requirements:</p> <p>Students have to do regular reading, write a short term paper by June 12 and a short essay by August 15.</p>		
Remarks	<p>Second-year students who did not complete the Theoretical Foundations module in WS 2017/18 are strongly encouraged to take this course to fill the module. It also makes sense to take this course after the Political Theory course, as the two courses cover different authors and have a different focus.</p> <p>Please register for Block I only.</p>		

**9.5 Study Area: Culture and History**

<b>Introduction to Culture and History (Foundational Year)</b>			
Course Number	00LE62V-LAS-CH0001, 00LE62S-LAS-CH0001	Teaching Period	University semester
Study Area(s)	Culture and History, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Introduction to Culture and History
Open to Students	Years 1, (2)	Max. Enrollment	60
Prerequisites	none		
Instructor(s)	Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>Lecture: Mon, 14-16h, KG III 3042</p> <p>Workgroups: Thu, 08-10h, KG I 1140 Thu, 10-12h, KG I 1140 Thu, 14-16h, KG I 1140</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 Date	Tue, 17.07.2018, 10-12h, HS Otto-Krayer-Haus		

Culture as a Topic of Academic Inquiry			
Course Number	00LE62S-LAS-CH0011	Teaching Period	University semester
Study Area(s)	Culture and History only (not open as Elective!)	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Culture as a Topic of Academic Inquiry	Module(s) (StuPo 2015)	Culture as a Topic of Academic Inquiry
Open to Students	Years 2, 3, 4	Max. Enrollment	25 (20 LAS, 5 KAEE)
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Dr. Matthias Moeller (matthias.moeller@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 16-18h, KG I 1140 Wed, 16-18h, R 00018A He-He-Str. 9		
Course Description	<p>In many academic disciplines, from ethnology to history, from sociology to folklore studies, culture is at the very center of research. In neighboring fields of the humanities too, the term is central to many scholarly debates.</p> <p>This course starts with an overview of different approaches and definitions: what is being called 'culture' from different points of view? What are the underlying definitions and understandings? And how can we work with the term in an academic way?</p> <p>We will then dive into two contemporary academic fields that emphasize two crucial but opposite ways of the dealing with culture:</p> <ul style="list-style-type: none"> <li>• British Cultural Studies which emphasizes creative appropriation in everyday life.</li> <li>• Critical Theory, esp. the Frankfurt School, which emphasizes constraining determination.</li> </ul> <p>From these two angles we will examine, read about, and discuss topics like: belonging and identity; taste and distinction; memory and remembrance; oppression and power; resistance and subversion; the uses of media.</p>		
Remarks	The course comprises workshops and an excursion (tba).		
Examination Date	Sun, 22.07.2018		

History as a Topic of Academic Inquiry			
Course Number	00LE62S-LAS-CH0002	Teaching Period	University semester
Study Area(s)	Culture and History only (not open as Elective!)	Credit Points	6 ECTS
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	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Mon, 08-10h, AU 01065 Wed, 08-10h, 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 Date	Fri, 20.07.2018		

<b>Before the Silk Road: Global Exchange in the Ancient Eurasian World Region (300 BCE to 300 CE)</b>			
Course Number	00LE62S-LAS-CH0018	Teaching Period	University semester
Study Area(s)	Culture and History, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Culture and History Up to the Early Modern Period Advanced C+H I or II	Module(s) (StuPo 2015)	Culture and History Up to the Early Modern Period Advanced C+H I, II or III
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Prof. Sitta von Reden (sitta.von.reden@geschichte.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Tue, 12-14h, Ph HS 2 Thu, 12-14h, Ph HS 2		
Course Description	<p>The recent propaganda of the Chinese government to build what is romantically called a "New Silk Road" – a vast network of railways, maritime connections, and pipelines – shows that the ancient Silk Road still matters in modern minds. The term was invented not earlier than in the 19<sup>th</sup> century by a German geographer who realized that from very early times, precious items, above all silk, had moved across vast spaces from China to the Mediterranean, and across central Asia to the Indian sub-continent. Silk was not the only commodity, and trade was not the only means by which precious goods changed hands between empires.</p> <p>This course will investigate the ancient economies along the so-called Silk Road, entangled as they were in human migration, warfare, and the conflicts and exchanges between sedentary and "nomadic" societies. Together we will explore how we can understand ancient economies and long-distance trade on the basis of the fragmentary evidence we have – literary texts, inscriptions, coins, archaeological remains, and landscapes. Several scholars from different historical disciplines currently doing research on the economies we will study (ancient China, India, Central and Western Asia) will join the course and discuss their work and material in individual classes. The course will be split in lectures and seminars in which primary sources, historical and archaeological methods, and the various ways of doing global history in the ancient world will be discussed. Students will learn how to do rigorous historical research, and how to integrate knowledge about ancient worlds into modern society without misusing these worlds for ideological purposes.</p>		
Examination Date	Mon, 20.08.2018		

<b>Human remains exhibited? Skulls as objects of colonialism, race science and museal display</b>			
Course Number	00LE62S-LAS-CH0041	Teaching Period	University semester
Study Area(s)	Culture and History; Electives	Credit Points	6 ECTS ECTS
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	Years 3 + 4	Max. Enrollment	8 LAS, 16 other study programs
Prerequisites	none		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Block: Fri, 20.04.2018, 10-12h, BT 105 Fri, 27.04.2018, 09-13h, BT 105 Fri, 01.06.2018, 09.30-17h, BT 107 Sat, 02.06.2018, 09:30-17h, KG I 1108 Fri, 22.06.2018, 09-13h, BT 105 Fri, 29.06.2018, 09-13h, BT 105		
Course Description	<p>Skull collections around the world - but particularly in Germany - have received much controversial attention recently: As objects representing a problematic legacy of Germany's colonial era, as objects of repatriation claims, as objects of scientific inquiry into race in past and present, and as objects of display in museums and exhibits. Freiburg university hosts one of the most fervently debated skull collections in Germany: The "Alexander-Ecker-Collection". As part of the project "Forschendes Lernen im Uniseum", this course will tackle different perspectives on the Alexander Ecker Collection in Freiburg. The skull collection was initiated by the anatomist and physician Alexander Ecker (1816-1887); after his death, a number of successors looked after the collection, most notably Eugen Fischer (1874-1967), who later become spearhead of the national-socialist race ideology. In the year 2002, the collection became part of the University Archives. In the last couple of years, the collection mostly appeared in media reports in the context of repatriation requests from Namibia and Australia. As a result, provenance research on the collection took place, and some of the remains have been returned to their homelands (i.e. to Namibia in 2013). This short summary of the collection's history already highlights key topics/questions for the course:</p> <ul style="list-style-type: none"> <li>• What are the historical contexts under which collection took place? Why did people collect skulls in the 19th and early 20th century?</li> <li>• How was the collection interpreted in the past – and how do various stakeholders see and understand it today?</li> <li>• How can the collection's future be imagined – caught between being testimony to a certain period in the history of science, current scientific potential, and ethical demands brought about by its very existence?</li> <li>• How can the collection, its difficult history, and the various perspectives on it, be presented in an exhibition?</li> </ul> <p>The course will combine theoretical and interdisciplinary perspectives, historical and contemporary research with practical application: Students will conduct independent research projects on various aspects of the topic, the results of which will be used to create a new exhibition unit in the Uniseum.</p> <p>The course is conducted by Prof. Veronika Lipphardt with the cooperation of Prof. Dr. Ursula Wittwer-Backofen and Prof. Dr. Dieter Speck, and will be accompanied by Sarah Fründt (Chair of Science and Technology Studies) and Angela Meran-Witt (Uniseum). All of these will bring in their own expertise and practical experience, thus highlighting different perspectives on the collection.</p>		

	<p>Two thirds of the spaces are reserved for Master students (or advanced B.A.-students) from study programs other than LAS.</p> <p>Teaching language is mostly German (and sometimes English). A huge number of primary and secondary sources will be in German. This applies in particular to the historical and archival sources. Very good German reading ability is therefore required.</p> <p>Before online-registration, please indicate your interest to the STS Sekretariat, Silvia Stößer at <a href="mailto:silvia.stoesser@ucf.uni-freiburg.de">silvia.stoesser@ucf.uni-freiburg.de</a>.</p>
Remarks	Open to students of other programs interested in STS.

Language, Discourse, and Identity			
Course Number	00LE62S-LAS-CH0039	Teaching Period	University semester
Study Area(s)	Culture and History, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Sociocultural Anthropology or Area Studies Advanced C+H I or II	Module(s) (StuPo 2015)	Sociocultural Anthropology or Area Studies Advanced C+H I, II or III
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introductory Module: Thought and Research in the Areas of Culture and History		
Instructor(s)	Dr. Denise Kaltschütz ( <a href="mailto:denise.kaltschuetz@ucf.uni-freiburg.de">denise.kaltschuetz@ucf.uni-freiburg.de</a> )		
Format, Dates, Times and Rooms	Seminar: Mon, 10-12h, HH R 00 003a Wed, 10-12h, HH R 01 020C		
Course Description	<p>The question of whether social identity is something inherent to the speaker, a fixed category, or a “core self” determined by markers such as ethnicity, gender, and one’s mother tongue—to name a few—or whether it is socially constructed and, as such, negotiable and fluid, has long been a point of debate in applied linguistics.</p> <p>While some researchers have taken a predominantly social view of identity, focusing on how it is renegotiated every day in different circumstances, others feel that “it would be a mistake to think that the self is simply a social construct” (Layder, 1997, p.48) that one can assume or “buy” in what Matthews (2000, p.15) calls the “cultural supermarket.”</p> <p>The present course will approach identity and language from an applied linguistics perspective in that it will focus on how second language (L2) speakers develop an identity in the L2, and on what factors influence this development. To do so, we will first explore the poststructuralist theory of language, which defines language as discourse (Bakhtin, 1981; Bourdieu, 1977; Hall, 1997; Weedon, 1997), and then analyze how this theory of language has been applied to explain identity development and identity negotiation in a second language (Norton Peirce, 1995).</p> <p>We will then focus on the influence of markers such as gender, power, investment, and agency on the negotiation of identities, as well as the most common research methods, including Critical Discourse Analysis (CDA), used to track and analyze their impact.</p>		
Examination Date	Sat, 28.07.2018		



Rawls: A Theory of Justice			
Course Number	00LE62S-LAS-CH0040	Teaching Period	University semester
Study Area(s)	Culture and History	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Advanced C&H I or II	Module(s) (StuPo 2015)	Philosophy, Advanced C&H I, II or III
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Culture and History		
Instructor(s)	Dr. Marc Andree Weber (andree.weber@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar: Tue, 12-14h, KG I 1236 Thu, 12-14h, KG I 1231		
Course Description	<p>"A <i>Theory of Justice</i> is a powerful, deep, subtle, wide-ranging, systematic work in political and moral philosophy which has not seen its like since the writings of John Stuart Mill, if then. It is a fountain of illuminating ideas, integrated together into a lovely whole. Political philosophers must now either work within Rawls's theory or explain why not."</p> <p>This passage is from Robert Nozick, who is probably the most prominent and harshest critic of Rawls.</p> <p>Even if one finds Rawls's arguments, in one or more respects, unconvincing, one can hardly escape their intriguing originality and beauty. The richness of thought and methodological insight is admirable, and the reasoning itself is developed in a careful and thorough way, so that a close and critical scrutiny is still, more than 45 years after the book was first published, a worthwhile endeavour. What is more, however, is that the conception of justice as fairness, which Rawls advances, helps us to understand the restrictions of our socio-cultural thinking. It lets us see political decisions as well as our own motives in a new light. What makes Rawls's book a deeply rewarding read is the golden background of love of justice against which the theory is presented.</p> <p>In the seminar, we will patiently dissect essential parts of Rawls's epochal work and trace the "illuminating ideas" and the "lovely whole" that Nozick has found therein.</p>		
Recommended Reading	John Rawls: A Theory of Justice. Original Edition. Cambridge (Mass.): Harvard University Press (1971).		

## 9.6 Study Area: Multiple

Aspects of Human Genetic Diversity			
Course Number	tba	Teaching Period	University semester
Study Area(s)	Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Elective module (Joker)	Module(s) (StuPo 2015)	Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Basic knowledge in genetics is useful.		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de) Prof. Dr. Peter Pfaffelhuber		
Format, Dates, Times and Rooms	Seminar: Exact times will be announced Preliminary meeting: Wed, 7.2.2018, 12:00 h, Raum 232, Eckerstraße 1		
Course Description	<p>Finding structure in diversity between humans has long interested researchers. Most scientific inquiries are based on (oftentimes implicit) conceptual assumptions about the basic units of that structure: <i>race</i>, <i>population</i> or <i>gradient</i>. Since the availability of DNA as inherited character, these differences have become a new and highly quantifiable aspect. However, at the same time, choosing and demarcating human groups and individuals to represent certain populations, races or gradients entails many non-quantitative decisions and processes. Similarly, choosing methods, models, and markers also entails choices that are not always obvious or without alternatives.</p> <p>This seminar is a cross-disciplinary teaching project with the Bachelor of Arts and Sciences and Mathematics as key players. We will discuss statistical methods from the field of (human) population genetics and, on that basis, also consider the validity of the research results. Furthermore, we will examine the societal assumptions about (and imaginations of) human societies that inform the research designs of these studies. We will discuss possible consequences of that research field in epistemological and societal perspective. To do so, we will work exemplarily with a few populations covered by human population genetic studies.</p> <p>The specific goal of this seminar is to learn with and from each other about the many facets (methodological, societal, political, biological, anthropological, etc.) of a seemingly homogeneous research topic.</p>		
Remarks	Enter your name in a list, available in room 245, Eckerstraße 1, before 2.2.2018.		

<b>Computational Modeling</b>			
Course Number	00LE62S-LAS-LSEE0001	Teaching Period	University semester
Study Area(s)	Life Sciences, Earth and Environmental Sciences (StuPo 2015 only), Electives	Credit Points	6 ECTS
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	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Maths & Physics (may be waived if you can show that you have a solid maths background)		
Instructor(s)	Dr. Reto Schölly (reto@reto-schoelly.de)		
Format, Dates, Times and Rooms	Lecture/Practical: Mon, 10-12h, Ph HS 2 Wed, 10-12h, Ph HS 1		
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> <ul style="list-style-type: none"> <li>• Introduction to basic operations (numeric calculations), matrix operations (matrix multiplication, inversion, vector transformation), functions (calculation, parameterization and return values), m-files, and proper formatting.</li> <li>• Writing documentations using MATLAB.</li> <li>• Fundamentals of modeling with MATLAB: economic systems, chaotic functions, mechanical systems and biological predator/prey systems.</li> <li>• Modeling of feedback control using SIMULINK.</li> <li>• Introduction to mathematical art. Lecture notes will be provided as a reference and for guidance in the exercises.</li> </ul> <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 thesis grade 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	<p>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: <a href="https://www.rz.uni-freiburg.de/services-en/pc-en/pcpools-en">https://www.rz.uni-freiburg.de/services-en/pc-en/pcpools-en</a></p>		
Examination Date	Final project, presentation on July 16 & 18.		

Energy Policy			
Course Number	00LE62S-LAS-EE0014	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: Earth and Environmental Sciences I or II Advanced Governance I or II Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option: Earth and Environmental Sciences I or II Advanced Governance I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences <b>and</b> Introduction to Governance		
Instructor(s)	Dr. Sibylle Braungardt (S.Braungardt@oeko.de)		
Format, Dates, Times and Rooms	Lecture/Seminar: Mon, 08-10h, AU 01036a Wed, 08-10h, KG I 1016		
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> <p>Examination:</p> <p>Case study presentation (part 1): 20% of the grade  Case study presentation (part 2): 20% of the grade  Case study presentation (part 3): 20% of the grade  Case study presentation (part 4): 20% of the grade  Final exam: 20% of the grade</p>		

Environmental Governance			
Course Number	00LE62S-LAS-EE0015	Teaching Period	University semester
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option EES I or II Specialization Option: Law, Politics, Administration Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option EES I or II Human and the Environment Specialization Option GOV I or II Elective module (Joker)
Open to Students	Years 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Governance <b>and</b> Introduction to Earth and Environmental Sciences		
Instructor(s)	Prof. Dr. Michael Pregernig (Michael.Pregernig@envgov.uni-freiburg.de) Dr. Cristina Espinosa (cristina.espinosa@envgov.uni-freiburg.de)		
Format, Dates, Times and Rooms	Lecture: Tue, 12-14h, Ph HS 3 Thu, 12-14h, AU 01 036a		
Course Description	<p>How do societies set in place mechanisms to protect the Arctic sea ice, hinder threats to biodiversity and ecosystems, and manage land erosion, flooding, or climate change? This is a central question for Environmental Governance, a diverse field of study that broadly examines the collection of complex processes and mechanisms whereby governments, private sector actors, civil society, and scientists establish systems of rule at different levels of human activity in the pursuit of environmental objectives (Agrawal and Lemos 2007).</p> <p>From an interdisciplinary vantage point, in this course we explore different resource management approaches and governance modes. We examine ethical principles, discourses, and theories that help to understand and address a variety of contemporary environmental problems ranging from local, national to global scales, such as forest management, biodiversity loss, climate change, etc. In this course, we further identify the actors, institutions and organizations involved in the use of natural resources and the environment, and outline policies and tools to tackle environmental problems.</p> <p>Structure of the course:</p> <p>During the first two weeks of the course, we will introduce Environmental Governance as an interdisciplinary and heterogeneous field of study.</p> <p>These introductory sessions will be followed by time for self-directed study and research in which students develop case studies connected to a major aspect of Environmental Governance. This assignment will allow students to identify and explore concrete examples close to their personal thematic interests that help to bridge theory and practice.</p> <p>Lectures and in-class activities will continue for 6 weeks with Tuesdays being devoted to interactive lectures on a major aspect of Environmental Governance, and Thursdays centring on students' presentations of their case studies followed by plenary discussions.</p> <p>The final week will be dedicated to synthesis.</p> <p>Learning goals:</p> <p>Over the course of the semester, students will gain familiarity with a variety of aspects and key terminology of Environmental Governance. This will help them to critically assess the changing roles of governments, private sector actors, and civil society in the establishment of systems of rule to attain environmental objectives.</p> <p>Audience:</p> <p>Since this is a social science course with an explicit interdisciplinary focus, it is</p>		

	<p>appropriate for students of Governance as well as Earth and Environmental Sciences. It is targeted at students who are interested in the ways in which plural societies develop mechanisms for managing environmental challenges from a research or policy perspective as well as for those who may want to work with or in public or private organizations with an environmental focus in the future.</p> <p>Form of assessment:</p> <ul style="list-style-type: none"> <li>• Short exams at the start of lecture units (best 5 out of 6 exams count; weight: 50%)</li> <li>• Presentation of case study (15%)</li> <li>• Short seminar paper on case study (35%)</li> </ul>
Examination Date	<p>Deadlines (dates of assessment)</p> <ul style="list-style-type: none"> <li>• Short exams will take place at the start of each Tuesday lecture unit (starting in mid-May)</li> <li>• Presentation of case studies, depending on topic, between mid-May and mid-July</li> <li>• Short seminar paper on case study due 19 July 2018</li> </ul>
Recommended Reading	<p>Reading suggestions before the course:</p> <p>Agrawal, A. &amp; Lemos, M. C. (2007): A Greener Revolution in the Making? Environmental Governance in the 21st Century, <i>Environment: Science and Policy for Sustainable Development</i>, 49/5: 36-45.</p>

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