



UNIVERSITY
COLLEGE
FREIBURG



Course Catalog

B.A./B.Sc. Program Bachelor of
Liberal Arts and Sciences
Winter Semester 2019-20

Albert-Ludwigs-Universität Freiburg

UNI
FREIBURG

Content

I	General Information	1
1	Teaching Periods Winter Semester 2019-20	1
2	LAS Academic Calendar: Important Dates and Deadlines.....	1
II	Course Registration	3
1	LAS Specifics – Course Registration	3
2	Who Needs to Register?	3
3	When to Register for Courses?	4
3.1	LAS students	4
3.2	LAS exchange students (UCF programs only)	4
3.3	Students of other degree programs and other exchange programs.....	4
3.4	Course registration periods.....	4
4	How to Register for Courses?	5
4.1	LAS students	5
4.2	LAS exchange students (UCF programs only)	5
4.3	Students of other degree programs and other international students	5
4.4	Course registration in HISinOne.....	6
4.5	Has the course registration been successful?	6
5	Deregistration from LAS Courses	6
6	Course Cancellation	6
7	Problems with Course Registration	6
III	Exam Registration.....	7
1	LAS Specifics – Exam Registration.....	7
2	Who Needs to Register for Examination?	7
3	When to Register for Examination?	7
4	How to Register for Examination?.....	8
4.1	LAS students and LAS exchange students (UCF partner programs only)	8
4.2	Students of other degree programs and other exchange programs.....	8
4.3	Exam registration in HISinOne.	8
4.4	Has the exam registration been successful?	8
5	Problems with Exam Registration	8
IV	Course Details	9
1	UCF Pre-Block Courses	9
1.1	Study Area: Multiple	9
	Pre-Course Maths and Physics.....	9

2	UCF Courses offered in Block I	10
2.1	Study Area: Core	10
	Foundational Year: Research and Presentation.....	10
	Oppression and Equality from an Intersectional Perspective	11
	Silence is Golden!?	12
2.2	Study Area: Culture and History.....	13
	Culture as a Topic of Academic Inquiry	13
2.3	Study Area: Governance	14
	Diplomatic Practice	14
	Comparative Public Policy	15
2.4	Study Area: Life Sciences.....	16
	Genetics and Molecular Biology: Genealogy of a Science	16
	Introduction to Tissue Engineering and Cellular Therapies in Regenerative Medicine	17
2.5	Study Area: Multiple	18
	Resources and Sustainability.....	18
3	UCF Courses offered in Block II	19
3.1	Study Area: Core	19
	Foundational Year: Written Expression.....	19
3.2	Study Area: Earth and Environmental Sciences	20
	Environmental Chemistry.....	20
3.3	Study Area: Governance	21
	Behavioural Economics	21
3.4	Study Area: Life Sciences.....	23
	Anatomy and Functions of the Brain	23
	Human Physiology.....	24
3.5	Study Area: Multiple	25
	Climate Change and Biodiversity	25
4	Semester-long Courses.....	26
4.1	Study Area: Core	26
	Foundational Year: English for Academic Purposes	26
	Foundational Year: Knowledge, Truth, and Inference	27
	Foundational Year: Principles of Responsible Leadership	28
	Altruism and Cooperative Behaviour.....	29
	Research Design	30
	Nature and Culture (Research Design across Disciplines).....	32
	Planning and Doing Research	33
	Science in Context: An Introduction to Science and Technology Studies.....	34
4.2	Study Area: Culture and History.....	35
	An Intellectual History of Feminist Thought.....	35
	Cultures of Everyday Violence	36
	Kant.....	37

Utopian and Dystopian Writings.....	38
4.3 Study Area: Earth and Environmental Sciences	39
Biodiversity Loss and Entomology -- Let's get in touch with insects	39
4.4 Study Area: Governance	40
Law and Policies of the European Union	40
Moot Court Meetings	41
Political Theory	42
Public International Law.....	43
4.5 Study Area: Multiple	45
Environment Risks and Us.....	45
Genetic Research in Vulnerable Populations: An STS Perspective	46
Geographic Information Systems (GIS)	48
Journalism: Natural Science, Social Science, and the Humanities.....	49
Livable Cities in the Global North and South: Urban Politics and Urban Sustainability	50
Maths and Physics.....	52
Methods Overview Seminar	53
Robot Design – Theory, Practice, Philosophy	55
5 Courses of Other Degree Programs	56
5.1 Study Area: Culture and History.....	56
Art in the Anthropocene	56
Queer Pop 2.0	57
5.2 Study Area: Earth and Environmental Sciences	59
Energy Storage.....	59
Fundamentals of Resilience.....	60
Grid Integration	61
Material Life Cycles	62
Solar Energy	63
5.3 Study Area: Wissenschaft, Technik, Gesellschaft	64
Digitale Überwachungs- und Kontrolltechnologien.....	64
Digitalisierung mitgestalten: Teilhabe als Basis für gerechte(re) Aushandlungsprozesse?.....	65
Gerechtigkeitsfragen in der Gestaltung der Interaktion von Menschen und künstlicher Intelligenz	66
Course Index	67

I General Information

1 Teaching Periods Winter Semester 2019-20

The university is closed on [public holidays](#). Dates for individual courses may slightly vary from the dates below (see IV Course Details).

Teaching Period	Dates
October Intensive	September 30 – October 11
Block I	October 21 – December 13
Block II	December 16 – February 21
Semester	October 21 – February 14 (semester-long LAS courses run according to the university semester , no teaching during university Christmas holidays)
Resit Period	April 6 – April 30, 2020 (resit examinations that require students' presence only)

2 LAS Academic Calendar: Important Dates and Deadlines

Application forms and guidelines are available on the [LAS Info Board](#) on ILAS.

Date		Important Dates and Deadlines
September 2019		
Starting 14.9		LAS Course Registration with consecutive registration periods for courses of the upcoming winter semester (see Course Registration)
Tue	24.9	Deadline: Application for Admission of Bachelor Thesis
Sat	28.9	Deadline: Application for SLI Language Courses (individual courses paid by UCF)
October 2019		
14.10-18.10		LAS Welcome Week
Mon	14.10	Deadline: Application for Non-LAS University of Freiburg Courses to be recognized in the Core or Major Application forms have to be submitted to the course coordinators for recognition and signatures.
Sat	19.10	LAS Graduation Ceremony
Mon	21.10	Exam Registration and withdrawal for courses of Block I courses in HISinOne begin
Fri	25.10	Deadline: Application for Non-LAS University of Freiburg Courses to be recognized as Elective (for graded examinations only) Please note that incomplete applications will not be considered.
November 2019		
Fri	01.11	Public Holiday: All Saint's Day (no teaching)
Fri	15.11	Deadline: Round One Application UCF Exchange Programs for the Academic Year 2020/21. Details on the Application procedure will be announced by Email.

Date		Important Dates and Deadlines
		Deadline: Application Credit Recognition for Study Abroad/Previous Studies
Sun	24.11	Deadline: Exam registration and withdrawal for courses of Block I courses in HIS-inOne (<u>not</u> for courses of Block II)
December 2019		
Mon	16.12	Exam Registration and withdrawal for courses of Block II AND semester long in HIS-inOne begin
23.12-06.01		University Christmas Break (no teaching)
January 2020		
Wed	15.01	Deadline: Round Two Applications for UCF Exchange Programs for the Academic Year 2020/21. Details on the Application procedure will be announced via Email
Fri	31.01	Deadline: Declaration of Major (to be taken into account for the upcoming course registration)
		Deadline: Application for Graduation WS 2019-20
February 2020		
Sat	01.02	Deadline: Application for Admission of Bachelor Thesis (recommended date for students graduating at the end of SS 2020)
Sun	02.02	Deadline: Exam registration and withdrawal for Block II AND semester long courses
March 2020		
Beginning of March		Publication of the LAS Course Catalog SS 2020 on the UCF website
Starting March		

II Course Registration

- The outlined *course* registration procedure ensures that Liberal Arts and Sciences (LAS) 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 which are required for graduation. Please remember: in order to take examinations (and hence get full credits for courses), students must also register for examination (see Exam Registration).

The outlined course registration procedure **applies to all courses offered by UCF** unless otherwise noted in the course details. Information on taking courses offered by other degree programs (that are not listed in this course catalog) and the Sprachlehrinstitut (SLI) of the University of Freiburg is available on the [LAS Info Board](#) on ILAS.

1 LAS Specifics – Course Registration

General

- All courses offered by UCF correspond to at least one module that appears in the LAS Study and Examination Regulations. UCF module titles are listed in the LAS Course Catalog.
- All major modules appear *twice* in the LAS Study Planner in HISinOne: in the Major and in the Electives area.
- Exchange students can select any available module to register their course as.
- Module and course titles will appear on your transcript. So, if you have a choice of different modules for one course, please keep this in mind when choosing a module.
- Some courses can only be taken as Major or Core courses and not as Electives (see Course Details).
- For UCF courses with several workgroups and a lecture, students only need to register for the workgroup they would like to attend (unless otherwise noted in the course details). In these cases, registration for the lecture is not possible and not necessary.

Major Modules

- LAS students who have declared their Major register their Major courses as part of their Major.
- LAS students who have not yet declared their Major register all 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.

Core Modules

- LAS students should register their Core courses as part of the Core.

Electives

- All Major modules also appear in the Electives area. LAS students who wish to take a module exam of a different Major need to select the corresponding Major module in the Electives area.
- Only LAS students who have already fulfilled all other modules that are listed in the course catalog can register their course as Elective module (Joker, numbers 00LE62MO-LAS1215-7261 to 7268, select the smallest number first). You can find these Joker modules in the Planer of Studies (HISinOne) at the very end of your Electives area.

2 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.

3 When to Register for Courses?

3.1 LAS students

First year LAS students register for all their courses of the first semester during the Welcome Week. All other 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.

3.2 LAS exchange students (UCF programs only)

LAS exchange students (on [UCF programs](#) only) register for courses during Registration Period II.

3.3 Students of other degree programs and other exchange programs

Students of the following degree programs register for courses during Registration Period II (and III for left-over places, "Restplätze"):

- Interdisziplinäre Anthropologie
- Medienkulturwissenschaften
- Sustainable Systems Engineering

Students of other degree programs and exchange students on international office programs or programs of other departments of the university register for courses during **Registration Period III** ("Restplatzvergabe").

3.4 Course registration periods

Course Registration Period I Sat, 14.9 - Tue, 17.9 (12:00h, noon)		
Who can register	For what	Comment
<ul style="list-style-type: none"> ▪ LAS students who have formally declared their Major by 31st of July 	Courses offered by UCF to be recognized in the Major only (<u>not</u> in the Electives Area, e.g. <u>not</u> Elective module (Joker))	LAS students are allowed to register for a maximum of 5 UCF courses in total (excluding pre-block courses). If students register for more than 5 courses they will be removed from the most popular courses. No exceptions to this rule will be made. LAS Students who have <u>not</u> formally declared their Major by 31 st of July can only register for courses in Registration Period II.
<p>Places will be assigned after the registration period. Higher year students will get priority on places unless otherwise noted in the course details.</p> <p>You can check your registration status on Wednesday evening. Your registration request may have been declined. Students whose registration requests have been declined will have the opportunity to register for alternative courses (which still have places available) on Thu, 19.9, 14:00h to 18:00h in HISinOne.</p>		

Course Registration Period II Sat, 21.9 - Tue, 24.9 (12:00h, noon)		
Who can register	For what	Comment
<ul style="list-style-type: none"> All LAS students LAS exchange students (on UCF programs only) Students of the following degree programs: <ul style="list-style-type: none"> Interdisziplinäre Anthropologie Medienkulturwissenschaften Sustainable System Engineering 	All courses offered by UCF, unless otherwise noted in the course details	<p>Students registering for courses during registration period II are expected to take the full workload of the course (usually 6 ECTS)</p> <p>Students are allowed to register for a maximum of 5 UCF courses in total (excluding pre-block courses). No exceptions to this rule will be made.</p>
<p>Places will be assigned after the registration period. Higher year students will get priority on places unless otherwise noted in the course details. Whether or not a student has declared his or her major will no longer be taken into consideration.</p> <p>You can check your registration status on Wednesday evening. Your registration request may have been declined. Students whose registration requests have been declined will have the opportunity to register for alternative courses (which still have places available) on Thu, 26.9 and Fri, 27.9 in HISinOne.</p>		

Course Registration Period III ("Restplatzvergabe") Sat, 28.9 – Fri, 4.10 (12:00h, noon)		
Who can register	For what	Comment
All students	All courses offered by UCF that still have places available (unless otherwise noted in the course details)	<p>Students can register for courses that still have places available.</p> <p>LAS Students are allowed to register for a maximum of 6 UCF courses in total.</p>
<p>Places will be assigned throughout the registration period. Regularly check your registration status in HISinOne. Your registration request may have been declined.</p>		

4 How to Register for Courses?

4.1 LAS students

LAS students register for courses using the campus management system HISinOne as outlined below. First year LAS students register for courses as announced during the Welcome Week.

4.2 LAS exchange students (UCF programs only)

LAS exchange students (on [UCF programs](#) only) with a Uni-Account register for courses in the campus management system HISinOne as outlined below. LAS exchange students who have not yet enrolled at the University of Freiburg use the form provided by UCF.

4.3 Students of other degree programs and other international students

Students of other degree programs and international exchange students on international office programs or programs of other departments of the university are asked to register for courses in the campus management system HISinOne.

4.4 Course registration in HISinOne

- 1) Go to <https://campus.uni-freiburg.de> (you can change the language to English in the lower right corner)
- 2) **Login** with your Uni-Account
- 3) Go to Mein Studium (My Studies) > Studienplaner (Planner of Studies); alternatively you can find UCF courses in Studienangebot > Vorlesungsverzeichnis > University College
- 4) Select the correct Semester of Studies
- 5) Courses (📖) are linked to the corresponding modules (🔍). Here you can find registration 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 the registration links appears.
- 6) 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.
- 7) Always check whether your registration request has actually been placed (Mein Studium (My Studies) > Meine Veranstaltungen und Prüfungsanmeldungen (My enrollments and examinations)).
- 8) After the registration period: check whether you have got admitted to the course.

4.5 Has the course registration been successful?

Places will be assigned *after* the registration periods. Successful course registrations will appear as TA (Teilnahme akzeptiert). If you have been put on the waiting list (WL), you may be admitted to the course at a later stage. Please be aware: the waiting list doesn't guarantee you a free place in a course. It is up to the instructors to decide on whether they take use of the waiting list or not.

Course participant lists will be finalized **on Mon, October 7, 2019** and passed on to the instructors. Later admissions to courses will only be possible via the instructors.

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.

5 Deregistration from LAS Courses

De-registration from courses is only possible in HISinOne during course registration periods. Later de-registrations are only possible in case of illness. In this case, please inform the instructor that you cannot attend the course as soon as possible.

6 Course Cancellation

Courses with will less than five participants may be cancelled.

7 Problems with Course Registration

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

Always provide

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

III Exam Registration

1 LAS Specifics – Exam Registration

General

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

Electives

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

2 Who Needs to Register for Examination?

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

3 When to Register for Examination?

Registration Period	Dates	Exam Registration and Withdrawal
1	17.09.2019 - 30.09.2019	October Intensive courses
2	21.10.2019 - 24.11.2019	Block I courses
3	16.12.2019 - 02.02.2020	Block II AND semester long courses

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

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

4 How to Register for Examination?

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

All LAS students (including first year students) and LAS exchange students (on [UCF programs](#) only) register their examinations in the campus management system HISinOne as outlined below.

4.2 Students of other degree programs and other exchange programs

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

4.3 Exam registration in HISinOne.

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

4.4 Has the exam registration been successful?

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

5 Problems with Exam Registration

See Problems with Course Registration.

IV Course Details

1 UCF Pre-Block Courses

1.1 Study Area: Multiple

Pre-Course Maths and Physics			
Course Number	00LE62S-LAS-LSEE0006	Teaching Period	Pre-block
Study Area(s)	Earth and Environmental Sciences, Life Sciences	Credit Points	-
Module(s) (StuPo 2012)	-	Module(s) (StuPo 2015)	-
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	25
Prerequisites	Introduction to Earth and Environmental Sciences and/or Introduction to Life Sciences		
Instructor(s)	Dr. Benoit Louvel (benoit.louvel@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	15.10.-17.10 Seminar Tue, 10-12h, AU 01042 Wed, 10-12h, AU 01042 Thu, 10-12h, Wilhelmstraße 26, R 00016 in HIS		
Course Description	<p>The mathematics skills of students to the study entry phase vary greatly. Reasons for this are the different requirements internationally and nationally, as well as a forgetting of the mathematics knowledge by a break after school graduation. This 6h Pre-Block course provides the opportunity for students to refresh their school mathematics or to learn new topics dependend on their level of Maths knowledge. This course perparees students for the start of the Maths & Physics course at UCF in winter term 2019/20. The course consists of lectures as well as exercises.</p> <p>Depending on the level of the participating students topics that may be covered are:</p> <ol style="list-style-type: none"> 1. arithmetic operations (summation, subtraction, multiplication, division, powers, factorials) and the order of summation 2. fractions and operations with fractions 3. definition and properties of some elementary functions: sine, cosine, tangent, exponential, logarithm 4. solving a linear equation with one variable 5. solving a quadratic equation with one variable 6. areas (of a triangle, of a trapezoid, of a disc) and volumes (of a sphere, of a cube). 		
Specific Remarks	<p>Highly recommended for students majoring in Earth and Environmental Sciences or Life Sciences and planning to take the Maths & Physics course in winter term.</p> <p>This course will not appear in your Planner of Studies in HISinOne. However, you can search for the course in the system.</p> <p>Exam Registration: there is <u>no</u> examination</p>		

2 UCF Courses offered in Block I

2.1 Study Area: Core

Foundational Year: Research and Presentation			
Course Number	00LE62S-LAS-CO0008 00LE62V-LAS-CO0008	Teaching Period	Block I
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Research and Presentation
Open to Students	Year(s) 1	Max. Enrollment	85
Prerequisites	none		
Instructor(s)	Dr. Simon Büchner (buechner@ucf.uni-freiburg.de) Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de) Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de) Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10.-13.12. Lecture: Mon, 14-16h, AU HS1 Seminars: <div style="display: flex; justify-content: space-between;"> <div> Seminar 1 (RP): Tue, 8-10h, AU 01036a Thu, 8-10h, AU 01036a Seminar 3 (SS) Tue, 10-12h, AU 01036a Thu, 10-12h, AU 01036a </div> <div> Seminar 2 (LM) Tue, 16-18h, KG 1139 Thu, 16-18h, KG 1032 Seminar 4 (SB) Tue, 10-12h, AU 01065 Thu, 10-12h, AU 01065 </div> </div> Final conference: 12. Dec. 14-19h and 13. Dec. 10-16h <div style="display: flex; justify-content: space-between;"> <div> WG 1: FMF 01 009 WG 3: KG 1137 </div> <div> WG 2: HH 9 R 00 003C / R 01 020B WG 4: VF 00 003 </div> </div>		
Course Description	This course covers two basic skills of scholarly work: literature research and presentation of a topic in a talk. It will impart theoretical knowledge on the skills while at the same time practice them on current complex problems. The students will learn how to independently research literature, how to summarize its content, how to use it in an essay, and how to present a topic to a particular audience. Throughout the whole module the research practices and traditions in different disciplines will be addressed. The course consists of lectures, which all students have to attend, and seminars of which students can choose one. This year's topics are: Seminar 1: Public Sphere (Plumley) Seminar 2: Inter-Nationalism (Mikalayeva) Seminar 3: Water Sustainability in a Changing World (Sané) Seminar 4: Aspects of Communication (Büchner)		
Examination Dates	Graded examination: exercise sheets (in some seminars), written exam		

Oppression and Equality from an Intersectional Perspective			
Course Number	00LE62VS-LAS-CO0021	Teaching Period	Block I
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+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	21.10-13.12 Seminar Mon, 14-16h, AU 01065 Tue, 14-16h HH 9, R 01020C, (some classes until 18h)		
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>		

Silence is Golden!?			
Course Number	00LE62S-LAS-CO0050	Teaching Period	Block I
Study Area(s)	Core, Electives	Credit Points	6
Module(s) (StuPo 2012)	Anthropology and Experience Elective module (Joker)	Module(s) (StuPo 2015)	Responsibility and Leadership 2 Elective module (Joker)
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Annette Kern, M.Sc. (annette.kern@ph-freiburg.de)		
Format, Dates, Times and Rooms	21.10-13.12 Seminar Mon, 14-16h, Ph HS4 Tue, 14-16h (some classes until 18h), Ph HS2 Thu, 14-16h, AU 01036a		
Course Description	<p>This course aims to study the meaning, virtues and perils of silence and explores the role of silence in leadership. By nature of the topic, the approach of this course is multidisciplinary and intercultural.</p> <p>The introductory part draws on students' previous studies, their experience and knowledge of communication and leadership, and links the topic to epistemological considerations (reflexivity in the social sciences). In a guided, explorative process, students will then identify topics and develop their own research questions related to the forms and meanings of silence, as well as to its causes and effects, from the perspective of various disciplines such as psychology (e.g. introversion vs. extroversion), economics (e.g. strategic non-communication by organizations) or law (e.g. the right to silence).</p> <p>From October 31 to November 3, the group will experience a 3-day "sesshin" – a meditation retreat in a Zen-Buddhist-Temple in Alsace/France (no prior exposure to Zen-Buddhism or meditation is necessary, nor any religious affiliation or non-affiliation.) Besides participating in guided meditation, we will join the nuns and monks in their daily Zen practice which includes working for the community as well as periods of quietness. Living "offline" and in seclusion for three days, the participants will experience the effects of silence, in a wider sense, on their own personal frame of mind.</p> <p>Between November 4 and 25, students investigate their research topics, and prepare for their presentation and essay.</p> <p>In the time period from November 25 to December 10, we will meet for the core seminar sessions which will address the chosen topics: Students present their research findings to the class in whatever form deemed appropriate. We will reflect on the subject-specific contexts, and every presentation will be followed by a joint discussion about the connections to and implications for personal and group behaviour, responsibility and leadership.</p> <p>After completing this course, students will have a deepened understanding and consciousness of the potentials and pitfalls of silence, both viewed from various academic perspectives, as well as reflected against the backdrop of personal and societal action.</p>		
Remarks	<p>Information on the meditation retreat and the Zen-Temple can be found here: http://www.meditation-zen.org/en/monastery-welcome</p> <p>The total cost for the 3 days, incl. accommodation and meals, amount to 116 € plus travel cost. If you cannot make it to the retreat, a make-up experience can be arranged.</p>		
Examination Dates	Presentation, research essay (due 20 December), portfolio of 3 reflections.		

2.2 Study Area: Culture and History

Culture as a Topic of Academic Inquiry			
Course Number	00LE62S-LAS-CH0011	Teaching Period	Block I
Study Area(s)	Culture and History only (not open as Electives)	Credit Points	6
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	Year(s) 2, 3, 4	Max. Enrollment	25 (20 LAS, 5 KAEE)
Prerequisites	Introduction to Culture and History		
Instructor(s)	Dr. Matthias Möller (matthias.moeller@kaee.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-13.12 Seminar Tue, 14-18h, Bismarckallee 22 R3 Thu, 14-16h, AU 01065		
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"> • British Cultural Studies which emphasizes creative appropriation in everyday life. • Critical Theory, esp. the Frankfurt School, which emphasizes constraining determination. <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>		
Examination Dates	Portfolio due 15. December 2019		

2.3 Study Area: Governance

Diplomatic Practice			
Course Number	00LE62S-LAS-GO0040	Teaching Period	Block I
Study Area(s)	Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced Governance I or II, Electives	Module(s) (StuPo 2015)	Advanced Governance I or II, Electives
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Malgorzata Hoffmann, M.A. (malgorzata.hoffmann@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-28.11 Seminar Tue, 8-12h, Ph HS3 Thu, 8-12h, BT 107		
Course Description	<p>What is it like to be a diplomat and who can become one? How do foreign services operate and how are the embassies organized? Do historically shaped diplomatic procedures still make sense in the world of Twitter? How do the employees of foreign service gather intelligence and how they influence business and political relations between countries? What are the challenges of contemporary immigration and consular work?</p> <p>The course "Diplomatic Practice" will consist of 12 sessions. 6 sessions will introduce students to theories and terms used in diplomatic language, historical overview, legal frame, and concepts of commercial, cultural and social media diplomacy. In addition, the structures of foreign services will be presented and challenges of work inside of the embassies. Work of consular, immigration, trade and political officers will be discussed. 6 practical sessions will equip students with knowledge and skills desired in diplomatic world. The examples used will be drawn from real life situations and documents used by foreign services that are open to public. We plan to organize a Q&A session with an active diplomat. Each week will combine 3 hours of theoretical knowledge and 3 hours of practical exercises.</p> <p>After successfully participating in this course you will be able to understand the basics of history, legal frames, structures and challenges of contemporary diplomacy. You will be able to use diplomatic terms and to apply diplomatic protocol. You will know what knowledge and skills are required from diplomats and you will be informed about employment opportunities including pros and cons of the jobs. You will be partially prepared for a job interview at a foreign office or an international organization.</p> <p>The lecturer is practitioner, educated on graduate level in Poland and Canada, with 7 years of work experience for the British Embassy (Trade & Investment Adviser, Justice & Home Affairs Officer, Economic Officer, Training Liaison Officer, Executive Coach, Line Manager, Immigration Officer). See the interview with the instructor in the Wiki Governance (InfoBoard).</p> <p>Examination Details</p> <p>30% active participation and presentation (students come up with own project for 10 minutes presentation with help and feedback of instructor); 10% handout on employment procedures in selected diplomatic/international organizations. 60% written exam (1,5h) (questions will include topics of theoretical sessions and will be discussed during lectures).</p>		
Remarks	The course takes place between 22 October and 28 November.		
Examination Dates	Written exam on November 28, 2019.		

Recommended Reading	<p>G.R Berridge (2015). <i>Diplomacy: Theory and Practice</i>. Fifth Edition. Palgrave Macmillan</p> <p>A. F.Cooper, J. Heine and R. Thakur (eds.) (2013). <i>The Oxford Handbook of Modern Diplomacy</i>. Oxford University Press</p> <p>Ch. Jonsson and R. Langhorne (2004) (eds.). <i>Diplomacy</i>. Volume I. Theory of Diplomacy; Volume II. History of Diplomacy; Volume III. Problems and Issues in Contemporary Diplomacy. SAGE Publications.</p>
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Comparative Public Policy			
Course Number	00LE62S-LAS-GO0045	Teaching Period	Block I
Study Area(s)	Governance only	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Law, Politics, Administration, Advanced Governance III	Module(s) (StuPo 2015)	Specialization Option I or II; Advanced Governance III
Open to Students	Year(s) 3,4	Max. Enrollment	18
Prerequisites	Introduction to Governance AND Political Science		
Instructor(s)	Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>21.10.-13.12.</p> <p>Advanced seminar</p> <p>Mon, 14-16h, AU 01042</p> <p>Tue, 14-18h, AU 01065 on most days (details see HISinOne)</p>		
Course Description	<p>Are welfare states more generous in countries, where social democrats have been in power for a long time? What are the different varieties of capitalism? Are countries with established state church more likely to accommodate minority religion practices? These and similar questions will be discussed (and at least partially answered) in this course about public policies.</p> <p>Public policies can be understood as the outputs of the political system. It is possible to distinguish between different types of policies, such as regulatory policies (e.g., environmental protection), distributive policies (e.g. agricultural policies), and redistributive policies (e.g., welfare policy). In this course we learn about public policies from a comparative perspective, with the general aim to understand the determinants and consequences of such policies.</p> <p>The course is focused on democratic countries, and we will discuss the following topics: Welfare state (in particular, family policy); varieties of capitalism; morality policies; policies of law and order; environmental policies; regulatory policies related to religion.</p> <p>Learning goals: The students will</p> <ol style="list-style-type: none"> 1. gain a basic understanding of public policies, and their determinants; 2. learn to apply theories on public policies in their own papers which focus on cross-country variation in public policies, and 3. improve their methodological skills related to comparative studies. 		
Remarks	Check the Campus Management system for rooms again before the sessions.		
Examination Dates	Graded assesment: Written assignments. The final part of the examined material will be due on 20. January 2020.		
Recommended Reading	Arts, Wilhelmus Antonius/Gelissen, John (2002): "Three worlds of welfare capitalism or more? A state-of-the-art report". <i>Journal of European Social Policy</i> 12 (2): 137-158.		

2.4 Study Area: Life Sciences

Genetics and Molecular Biology: Genealogy of a Science			
Course Number	00LE62S-LAS-LS0023	Teaching Period	Block I
Study Area(s)	Life Sciences, Electives	Credit Points	6
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	Year(s) 3,4	Max. Enrollment	20
Prerequisites	Introduction to Life Sciences, Cell Biology		
Instructor(s)	Theresa Schredelseker (schredet@tcd.ie)		
Format, Dates, Times and Rooms	21.10.-16.12. Seminar Tue 14-18, Bio SR 1048 Th 14-16, Bio SR 1048		
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>		
Remarks	Possibly some sessions will have to take place on Monday 14-16h. Exact dates will be announced in the first session.		

Examination Dates	Student presentations and exam.
Recommended Reading	Alberts, B. (2014). Molecular Biology of the Cell .Garland Sci, New York.

Introduction to Tissue Engineering and Cellular Therapies in Regenerative Medicine			
Course Number	00LE62S-LAS-LS0020	Teaching Period	Block I
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option LS I or II Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option LS I or II Elective module (Joker)
Open to Students	Year(s) 3,4	Max. Enrollment	8
Prerequisites	Laboratory Work for the Life Sciences, Cell Biology, Biochemistry		
Instructor(s)	PD Dr. Melanie L. Hart and colleagues (melaniehar@gmail.com)		
Format, Dates, Times and Rooms	21.10-13.12 Seminar Tue, 8:30-12:00h, G.E.R.N lab Thu, 10:00h-12:30h, G.E.R.N lab Seminar room 041 (ground floor), Engesserstrasse 4, 79108 Freiburg		
Course Description	<p>This course will consist of a series of lectures, student-led seminars, journal clubs (student-led presentation of current research articles) and hand-on laboratory work. Lectures will introduce you to the topics relevant to the field of tissue engineering and cellular therapies in regenerative medicine such as Good Manufacturing Practice (GMP) production of cells for cellular therapies, choosing the right cell type for a specific cell therapy, the importance of the extracellular matrix in regeneration of tissue, the role of biomechanical and biophysical stimuli in tissue engineering and creating three-dimensional (3D) environments for cells and vital implants.</p> <p>Students will team up to present a research article ("Journal Club"), as well as a seminar topic relevant to the this field of in order to gain knowledge in how to read, present and evaluate scientific research papers and to become more acquainted with standard and new techniques that can be used in tissue engineering and regenerative medicine. Hands-on work in the laboratory will include sterile cell culture techniques, how to isolate and culture mesenchymal stem cells from tissue, creating and assessing 3D cellular environments and analyzing their biomechanical properties.</p>		
Remarks	First meeting will be in the seminar room on the entrance level next to the elevators of Engesserstrasse 4. Please always be on time as the doors automatically lock. If necessary, call to be let in but this will disrupt the course (Tel. 40975). The location of the remaining courses will be provided to you on the first day of the course.		
Examination Dates	Two presentations, maintaining a laboratory notebook about the contents of the hands-on laboratory work, as well as a short multiple choice exam in the final week.		
Recommended Reading	Guraya, S. Y., Sampogna, G., & Forgione, A. (2015). <i>Regenerative medicine: historical roots and potential strategies in modern medicine</i> .		

2.5 Study Area: Multiple

Resources and Sustainability			
Course Number	00LE62S-LAS-GOEE0006	Teaching Period	Block I
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Global Cycles of Matter and Material Specialization Option: EES I or II Advanced GOV I or II Elective module (Joker)	Module(s) (StuPo 2015)	Global Cycles of Matter and Material Specialization Option: EES I or II Advanced GOV I or II Elective module (Joker)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences OR Introduction to Governance		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-13.12 Seminar Mon, 14-16h, AU 01036a Tue, 14-16h, FMF 01009 Thu, 14-16h, KG 1032		
Course Description	<p>The growing human footprint on our planet is clearly shown by the enormous consumption of renewable (e.g. biomass) and non-renewable resources (e.g. fossil fuel). To sustain a high human development without destroying the environment an equilibrium between economic viability, environmental tolerability and social fairness is required. This concept of sustainability is incorporated in many national constitutions, numerous regulations and is discussed in several summits.</p> <p>The course will study natural resources in respect to their production, extraction and use, their potential impact on the environment, their economic value and the legal situation necessary to fulfill the requirement of sustainable development. The main focus will be on energy and food resources as well as waste management.</p>		
Remarks	Students majoring in Earth and Environmental Sciences have priority. Excursion on Fridays or guest talk in the evening possible (tba).		

3 UCF Courses offered in Block II

3.1 Study Area: Core

Foundational Year: Written Expression			
Course Number	00LE62S-LAS-CO0009 00LE62V-LAS-CO0009	Teaching Period	Block II
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Written Expression
Open to Students	Year(s) 1	Max. Enrollment	85
Prerequisites	Research and Presentation		
Instructor(s)	Dr. Sebastian Gehart (sebastian.gehart@ucf.uni-freiburg.de) Dr. Marie Muschalek (marie.muschalek@ucf.uni-freiburg.de) Thorsten Leiendecker, M. A. (thorsten.leiendecker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	16.12-21.2 Lecture: Mon, 14-16h, AU HS1 Seminars: <div style="display: flex; justify-content: space-between;"> <div> Seminar 1 (MM): Tue, 8-10h, AU 01036a Thu, 8-10h, AU 01036a Seminar 3 (SG) Tue, 10-12h, AU 01065 Thu, 10-12h, AU 01065 </div> <div> Seminar 2 (SG) Tue, 8-10h, AU 01065 Thu, 8-10h, AU 01065 Seminar 4 (TL) Tue, 10-12h, AU 01036a Thu, 10-12h, AU 01036a </div> </div>		
Course Description	<p>The course introduces students to the challenges of sharing knowledge through written expression. An overarching goal of this course is to explore how writing is not merely used to broadcast or conserve information but, especially in academia, constitutes a social interaction and discourse involving a variety of actors for a plethora of functions and a multitude of intended effects.</p> <p>Different genres of academic writing are emphasised along with their prevalence in different academic disciplines. For this, students will focus on further developing topics they explored in the previous course on "Research and Presentation". These topics will serve as bases for learning and practicing different techniques and conventions of academic writing. Students will also familiarise themselves with different stages of the writing process, including preparation, research, creating outlines, drafting, and revising their written work, thus equipping them with the skills to effectively express arguments, ideas and research in academic and non-academic writing.</p>		
Remarks	The seminar dates mostly correspond to the groups of Research and Presentation (Block I); only the group on Internationalism takes place at different times.		
Examination Dates	Final essay due on 1 March.		

3.2 Study Area: Earth and Environmental Sciences

Environmental Chemistry			
Course Number	00LE62S-LAS-EE0010	Teaching Period	Block II
Study Area(s)	Earth and Environmental Sciences, Electives for other majors only	Credit Points	6
Module(s) (StuPo 2012)	Chemistry	Module(s) (StuPo 2015)	Chemistry
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Prof. Dr. Peter Kroneck (peter.kroneck@uni-konstanz.de)		
Format, Dates, Times and Rooms	16.12-21.2 Seminar Mon, 14-16h, AU 01036a Tue, 14-16h, Ph HS2 (some dates until 18h, tba) Thu, 14-16h, AU 01036a		
Course Description	<p>In this course students will be introduced to Environmental Chemistry. In unit 1 From Atoms to Macromolecules: they will study the main building blocks of our material world composed of atoms, ions and molecules. In unit 2 Chemical Reactivity: students will investigate fundamental chemical reactions, specifically proton-transfer reactions (acid-base chemistry) and electron-transfer reactions (redox chemistry). In addition, they will be introduced to basic thermodynamic (conservation of energy) and kinetic (catalysis) principles driving chemical reactions. In unit 3 Bio-Inorganic Applications students will explore the essential elements of life on Earth and their biogeochemical cycles, and they will take a closer look at the chemistry of several important biological processes. In the tutorials selected topics will be presented by the students and discussed in depth.</p> <p>Upon successful completion of this module, you should be able to:</p> <ol style="list-style-type: none"> 1) Describe the basic electronic and structural features of molecules (nature of chemical bonds; three-dimensional structures; chirality). 2) Set up and complete chemical equations (stoichiometry; acids and bases; oxidants and reductants; transfer of protons and electrons). 3) Understand elementary thermodynamic (heat) and kinetic (velocity) aspects of chemical reactions. 4) Apply the principles of structure and reactivity to essential life processes in the presence and absence of dioxygen (extreme forms of life; respiration; photosynthesis; nitrogen fixation). 5) Present/discuss a selected topic and write a paper (short publication). 		
Remarks	Students majoring in Earth and Environmental Sciences have priority		

3.3 Study Area: Governance

Behavioural Economics			
Course Number	00LE62S-LAS-GO0044	Teaching Period	Block II
Study Area(s)	Governance, Electives for other majors	Credit Points	6
Module(s) (StuPo 2012)	Economics, Electives only for other Majors	Module(s) (StuPo 2015)	Economics, Electives only for other Majors
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Governance		
Instructor(s)	Felix Ettensperger, M.A. (felix.ettensperger@politik.uni-freiburg.de)		
Format, Dates, Times and Rooms	16.12-21.2 Seminar Mon, 14-16h, AU 01065 Tue, 14-16h, AU 01065 Thu, 14-16h, AU 01065		
Course Description	<p>The course will provide students with a practical understanding of Behavioral Economics (BE) and the implications of BE for a wide array of decision-making processes.</p> <p>Behavioral Economics is a relatively young sub-discipline of economics, which studies the psychological, cognitive, emotional, cultural and social factors affecting decision-making in economic transactions. Researchers of BE discovered large systematic anomalies in the economic behavior of individual actors, in strong contrast to what classical economic theories would expect: in economic situations, humans are irrational, biased or over-confident, they often apply simple heuristics in decision making and evaluate economic transactions according to frames and social contexts. They do so, however, neither in an unpredictable nor individual way, but in consistent, reproducible patterns that can be analyzed, measured and eventually used to influence or nudge individual actors to a desired outcome.</p> <p>The implications of these discoveries for business, politics and public management are profound. Fully understanding these terms of decision-making allows to formulate policies to influence public opinion and social or economic behavior in general.</p> <p>Topics:</p> <ul style="list-style-type: none"> • Basic understanding about classical economic theories • Bounded Rationality and Heuristics of Decision-Making • Frames and Biases • Self-Control Failure and Temptation • Prospect Theory and Decisions under Risk • Decisions under Uncertainty • Happiness, Confidence and Fairness from a BE perspective • Nudging and Choice Architecture <p>The course is divided into eight units of content. Each unit usually consists of three sessions in one week: 1) an agenda-setting presentation from the lecturer; 2) a discussion initiated by a presentation of students (individual or groups of 2-3); 3) an interactive session exploring or testing the learned concepts.</p> <p>Requirements:</p> <p>Regular attendance and participation is expected.</p> <p>A short presentation (15 min.) with a handout covering relevant course topics, is part of pass/fail requirements.</p>		

Remarks	Students intending to major in Governance are strongly recommended to take this course in their second year of studies. Second-year students have priority.
Examination Dates	Short graded argumentative essay; graded written exam (1 h), date tbc
Recommended Reading	Daniel Kahneman and Amos Tversky (2000). <i>Choices, Values, and Frames</i> . Cambridge: Cambridge University Press. Richard H. Thaler and Cass R. Sunstein (2008). <i>Nudge: Improving Decisions about Health, Wealth, and Happiness</i> . New York: Penguin Group. Daniel Kahneman (2011). <i>Thinking, Fast and Slow</i> . New York, NY: Farrar, Straus and Giroux.

3.4 Study Area: Life Sciences

Anatomy and Functions of the Brain			
Course Number	00LE62S-LAS-LS0007	Teaching Period	Block II
Study Area(s)	Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Advanced LS I or II Elective module (Joker)	Module(s) (StuPo 2015)	Advanced LS I, II or III Elective module (Joker)
Open to Students	Year(s) 2, 3, 4 (not open to non-LAS students)	Max. Enrollment	18
Prerequisites	Introduction to Life Sciences		
Instructor(s)	Dr. Janina Kirsch (janina.kirsch@biologie.uni-freiburg.de) Dr. Ute Häußler (ute.haeussler@uniklinik-freiburg.de) Dr. Nicole Roßkothen-Kuhl (nicole.rosskothen@uniklinik-freiburg.de)		
Format, Dates, Times and Rooms	16.12-21.2 Seminar Tue, 15-19h, SR 00043, Biology II/III, Schänzlest. 1 Fri, 15-19h, SR 00043, Biology II/III, Schänzlest. 1		
Course Description	<p>In this course different components of the vertebrate brain and associated functions are presented one by one. In particular these are:</p> <ul style="list-style-type: none"> • General structure of the vertebrate brain • Spinal cord • Medulla oblongata • Cerebellum • Midbrain • Thalamus • Hypothalamus • Basal ganglia • Limbic system • Cerebral cortex <p>Each session is composed of a theoretical part in which the structure and its associated functions are presented in a lecture-style format and a practical part in which the students model the brain structures using plasticine (yes, your hands will get dirty!). The plasticine models help the students to understand the relative location of different parts of the brain. The course requires participants to study a series of eight videos provided on ILIAS before the course starts. The videos of roughly 45 min each contain lectures about fundamental knowledge in the neurosciences.</p>		
Remarks	<p>This course requires extra teaching materials such as plasticine and the script. Depending on available funding from external sources students may be asked to pay a cost of maximum 15 Euro for teaching material.</p> <p>This course is not open to non-LAS students.</p>		
Examination Dates	Written exam during the last week of the course.		
Recommended Reading	The script of the course along with two SOMSO models of the human brain are available in the reading room.		

Human Physiology			
Course Number	00LE62S-LAS-LS0010	Teaching Period	Block II
Study Area(s)	Life Sciences, Electives for other majors only	Credit Points	6
Module(s) (StuPo 2012)	Physiology	Module(s) (StuPo 2015)	Physiology
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Life Sciences, Cell Biology and Biochemistry		
Instructor(s)	Dr. Nicola Iovino (iovino@ie-freiburg.mpg.de) Fides Zenk (zenk@ie-freiburg.mpg.de)		
Format, Dates, Times and Rooms	16.12-21.2 Seminar Tue, 9-12h, Max Planck Institute of Immunobiology and Epigenetics, Stübeweg 51 Thu, 9-12h, Max Planck Institute of Immunobiology and Epigenetics, Stübeweg 51		
Course Description	<p>Why is it so hard to get up in the morning? And why do some people grow dizzy after doing so? Why do I get sleepy after eating? And why do I get fat when eating too much? Why am I thirsty after a night of drinking? How am I still not sick, despite the bad weather? And why do I not remember the first question? It is easy to overlook the marvelous functions our body performs routinely and, on a day-to-day basis, for decades.</p> <p>In this course we will analyze, discuss, and elaborate on the mechanisms, principles, and interactions underlying human life and its manifold functions, i.e. human physiology. Starting with the study of basic cell physiology, organelles, cellular functions and genetics, we will delve into germ cells and their development, embryonic development and continuing with</p> <p>coordination and cooperation of these cells within organs; liver, heart and digestive system. The course will also touch upon metabolism, respiratory chain, glycolysis and circadian rhythms.</p> <p>The course will include an individual presentation of the participants and practical interludes. Therefore, it will allow the students to actively contribute to the course contents and immediately experience key body functions first hand, respectively. Thus, we will answer all the aforementioned questions and many more.</p>		
Examination Dates	tba		

3.5 Study Area: Multiple

Climate Change and Biodiversity			
Course Number	00LE62S-LAS-GOEE0004	Teaching Period	Block II
Study Area(s)	Earth and Environmental Sciences, Governance, Electives	Credit Points	6
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	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences OR Introduction to Governance		
Instructor(s)	Dr. Benoit Sittler (benoit.sittler@nature.uni-freiburg.de)		
Format, Dates, Times and Rooms	16.12-21.2 Seminar Tue, 8-12h, Ph HS3 Thu, 8-12h, Ph HS3		
Course Description	<p>Climate change and biodiversity are among the major environmental issues modern societies face. They call for governance solutions both on global and local levels.</p> <p>In this course, you will first discover methodological approaches (such as proxies) to the monitoring and assessment of past and present changes in biodiversity. We will consider in detail examples illustrating these approaches looking into, namely, an ongoing long-term project in Greenland, which will provide you with unique insights into effects of climate change on biodiversity. You will understand the basic principles and dynamics behind the climate variability and the link to biodiversity.</p> <p>In the second part of the course we will focus on governance. We will discuss how issues like climate change and loss of biodiversity find their way onto political agendas. We will explore standard-setting mechanisms, especially in respect to the measurement of climate change and its effect on the biodiversity. Furthermore, we will analyze regulatory policies introduced and implemented on the international, national, and local levels.</p>		
Remarks	<p>Course will often start at 9:15h.</p> <p>Students majoring in Earth and Environmental Sciences have priority, Excursion on Friday possible.</p> <p>For Governance students: Specialization Options are advanced courses, which may be taken only in semesters 5-8 (STUPO § 6 (5)).</p>		

4 Semester-long Courses

4.1 Study Area: Core

Foundational Year: English for Academic Purposes			
Course Number	00LE62S-LAS-CO0013	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	---	Module(s) (StuPo 2015)	English for Academic Purposes
Open to Students	Year(s) 1,2	Max. Enrollment	85
Prerequisites	none		
Instructor(s)	Robert Burrows (robert.burrows@web.de) Jefferson Burrows (jeffburrows@hotmail.com)		
Format, Dates, Times and Rooms	21.10-14.2 Workgroups: <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> WG1: Mon, 12-14h, Ph HS 2 Wed, 14-16h, FMF HS 01009 WG 3: Mon, 16-18h, FMF HS 01009 Wed, 16-18h, FMF HS 01011 </div> <div style="width: 48%;"> WG2: Mon, 12-14h, Ph HS 3 Tue, 12-14h, BT 107 WG 4: Tue, 14-16h, Ph HS3 Wed, 16-18h, Ph HS1 </div> </div>		
Course Description	<p>English for Academic Purposes (EAP) is designed to introduce students to the essentials of English academic writing culture. The objective of this course is to support students in a regular practice of critically reading and writing academic texts.</p> <p>In Block I of this sixteen-week course, we will identify academic discourse and the features of academic writing in terms of communities of practice. Students will learn how to recognize diverse academic genres, how to write structured paragraphs, and how to present their research—in the form of summary, paraphrase, and quotation—with academic integrity.</p> <p>In Block II, we will explore critical reading and writing with a focus on the essay genre. Students will extend their recognition of paragraph structure by examining the specific anatomy of the persuasive essay. Following critical analysis and discussion of a set of shared academic texts, each student will craft an essay aimed at compellingly convincing the reader of the merits of its claims.</p> <p>Upon successful completion of this course, students should be able to:</p> <ul style="list-style-type: none"> • Write persuasively and critically • Identify, analyse, and evaluate academic texts • Use outside sources appropriately with academic integrity • Successfully proofread and edit their seminar papers 		
Remarks	This course is part of the Foundational Year. First year students register for this course during the Welcome Week.		

Foundational Year: Knowledge, Truth, and Inference			
Course Number	00LE62V-LAS-CO0011 00LE62S-LAS-CO0011	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Theory of Knowledge
Open to Students	Year(s) 1	Max. Enrollment	85
Prerequisites	none		
Instructor(s)	PD Dr. Tobias Henschen (tobias.henschen@uni-konstanz.de)		
Format, Dates, Times and Rooms	23.10-12.2. Lecture: Wed, 12-14h, AU HS1 Workgroups WG 1: Fri, 8-9h, BT 205 WG 2: Fri, 8-9h, Ph HS3 WG 3: Fri, 9-10h, BT 205 WG 4: Fri, 9-10h, Ph HS3		
Course Description	The course is part of the systematic reflections on knowledge and science within the LAS-Core. It analyzes the traditional understanding of knowledge as true justified belief, the problems inherent to that understanding (e.g. the epistemic regress problem, the Gettier problem) and epistemic skepticism. The course also introduces to elementary logic (propositional and predicate calculus) and discusses the distinction between different types of linguistic meaning (especially semantic and pragmatic) and between the different types of inference based on them.		
Remarks	This course is part of the Foundational Year. First year students register for this course during the Welcome Week.		
Examination Dates	Written exam on 12 February 2020.		

Foundational Year: Principles of Responsible Leadership			
Course Number	00LE62V-LAS-CO0026 00LE62S-LAS-CO0026	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	--	Module(s) (StuPo 2015)	Responsibility and Leadership 1
Open to Students	Year(s) 1	Max. Enrollment	85
Prerequisites	none		
Instructor(s)	Dr. Johanna Gampe (jhanna.gampe@gmail.com) Dr. Simone Kraiss (simone.kraiss@slu.uni-freiburg.de) Julia Leiendecker, M.A. (julia.leiendecker@gmail.com) Dr. Anielia Knobich / Felix Wittenzellner, M.A.		
Format, Dates, Times and Rooms	21.10-14.2 Lecture: Mon, 10-12h, AU HS1 Workgroups Wed, 8-10h, AU 01 036a Wed, 8-10h, AU 01 065 Wed, 10-12h, Bismarckallee 22 R3 Wed, 10-12h, BT 206 Fri, 10-12h, BT 206 Fri, 10-12h, BT 107		
Course Description	<p>This foundational course introduces essential principles of responsible leadership, understood broadly as a multifaceted approach to constructive action in professional life and beyond. Our comprehensive treatment of the term is reflected in four individual parts, each presenting responsibility and leadership from a different angle. Following a general introduction, students will form subgroups on the following topics:</p> <p><i>Part A: Ethics, Decision-Making, and Responsible Action</i></p> <p>Participants will learn basic terms and the most significant theories in preparation both for an overview of different fields within applied ethics (e.g. research ethics, bioethics, and media ethics) and for related discussion of exemplary contemporary ethical dilemmas.</p> <p><i>Part B: The Bases and Dynamics of Human Interaction</i></p> <p>Participants will explore key concepts in the study of human interaction (communication, language, representation, and performance), honing their recognition of the production and reproduction of meaning as an intrinsic aspect of daily life.</p> <p><i>Part C: Leadership and Managerial Challenges</i></p> <p>Sessions will cover fundamental dimensions of the leading self, of leading others, and of leading organizations. Students will engage the basic assumptions, theories, and methods of actions that demonstrate leadership. Personal development will be examined as an essential element of leadership that impacts everyday, organizational, and societal contexts.</p> <p><i>Part D: Equality, Diversity, and Non-Discriminatory Practice</i></p> <p>Meetings will be organized to help participants deepen their understanding of the meaning of equality, the importance of diversity, and the practice of non-discrimination. After critically tracing a brief history of human rights, students will learn to address racism, sexism, ableism, and classism in light of contemporary and historical social struggles as well as the living needs of their own communities.</p> <p>The individual sections may vary in format according to instructors' priorities, and include preparatory readings, presentations, and group work, as well as active and self-reflective participation.</p>		
Remarks	This course is part of the Foundational Year. First year students register for this		

	course during the Welcome Week. Exact course times (Wed, 8h or Wed, 10h or Fri, 10h) may differ between the single parts.
Examination Dates	Pass/fail requirements: Regular attendance and active participation in work group meetings. Reflective essay in two parts.

Altruism and Cooperative Behaviour			
Course Number	00LE62S-LAS-CO0049	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Action and Responsibility Vision and Leadership	Module(s) (StuPo 2015)	Responsibility and Leadership 2 Elective module (Joker)
Open to Students	Year(s) 2-4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Mathis Lessau (mathis.lessau@germanistik.uni-freiburg.de)		
Format, Dates, Times and Rooms	23.10-12.2 Seminar Wed, 16-18h, KG 1034		
Course Description	<p>Cooperative behaviour is a challenge for different disciplinary approaches. Why should an individual selflessly commit to the welfare of another individual or group? Can there be genuine altruistic behaviour at all? To answer this question, it is important to understand what is meant by altruism in different disciplinary contexts. For example, it is important to distinguish the evolutionary-biological concept of altruism from psychological or philosophical theories of altruism. In this seminar, the relevant scientific approaches will be worked out and critically discussed. In addition, game theoretical scenarios as the iterative prisoner's dilemma or the ›ultimatum-game‹ will be used to illustrate the occurrence and range of cooperative behaviour.</p> <p>In the practical part of the seminar, we will develop concrete aid projects in cooperation with the local ›Effectice Altruism‹ group in Freiburg. For the project planning, a budget of 500 Euro is to be assumed, which will be advertised as a ›prize‹ from the teacher's tuition money. The aid projects will be critically assessed at the end of the seminar with regard to the evaluation criteria of effective altruism and the most 'effective' project, i.e. the project that best uses the limited resources to create the greatest positive impact, will be initiated with the help of the Freiburg EA-Group. At the end of the seminar the students should be able to distinguish between different altruistic concepts and to determine the relevance and fields of application of these concepts in different disciplinary research contexts. In addition, they should be able to apply cooperative methods themselves in order to develop their own project in group work and to assess its effectiveness. To this end, they must be sensitised to complex social and ethical action correlations and train the competence to critically question their own proposed solutions and to revise them to achieve an overarching goal.</p>		
Recommended Reading	<p>Axelrod, R.: <i>The Evolution of Cooperation</i>, New York 2006.</p> <p>MacAskill, W.: <i>Doing Good Better - Effective Altruism and a Radical Way to Make a Difference</i>, London 2015.</p>		

Research Design			
Course Number	00LE62S-LAS-CO0042	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	The Challenge of Interdisciplinarity	Module(s) (StuPo 2015)	Research Design across Disciplines
Open to Students	Year(s) 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar/Workgroups Mon, 12-14h, AU 01036a Fri, 10-12h, AU 01036a 13.-14.02.2020 - student conference (participation is part of the course).		
Course Description	<p>In the fourth year of LAS studies it is time to take stock of your knowledge on how to plan and conduct an independent research project. The course Research Design exposes you to the expectations to high quality research and encourages discussion on the differences and similarities across the areas of intellectual interests that you and other students will bring to the course. We will summarize, analyze and improve your ability to plan and manage a small-scale research project.</p> <p>Learning goals: Being able to develop a viable research project from scratch, following the criteria of solid research design, including:</p> <ul style="list-style-type: none"> • formulating and refining a research goal / research question, • formulating a convincing relevance statement by contextualizing your research as an informed position in an existing academic / social debate, • understanding the principles of selecting a suitable approach (theory, method) for answering your research question, • improving the capacity to efficiently and correctly use sources to construct a clear and convincing argument, • knowing how to define the data necessary to answer the research question, how to gather, systematize and analyze it, • improving the ability to clearly and convincingly communicate your research, both in writing and in oral presentations. <p>As a result, we will also make sure you further develop self-management skills key to planning, managing and successfully completing longer or more complex research projects than previously in their studies. The course combines input from the lecturer and active discussion on readings with guided, but independent work on a research idea.</p> <p>In addition, you will need to choose and attend three academic talks at the University during the semester and prepare a short academic report on academic communication, based on this attendance.</p> <p>The course will conclude with a one- or two-day student conference, where you will present your research designs to fellow students from this and other courses in the same module.</p> <p>Requirements Pass/fail: active participation, attending 3 academic talks and preparing a short report, research diary with notes on home readings and class discussions.</p>		
Remarks	<p>The course is open to all Majors and is not content-oriented. Intellectual openness is both a prerequisite and a desired outcome.</p> <p>I invite you to think about interesting research ideas even before starting the course; review your previous studies and experience to find a topic that makes you curious.</p>		

	Concluding conference takes place on Feb 13 and 14, please reserve these dates.
Examination Dates	Graded assessment: presentation of research design, outline based on the presentation, constructive feedback to peers, and research proposal based on the outline. Final deadline: February 23, 2020.
Recommended Reading	Consider buying a copy of W. Booth, G. Colomb, J. Williams (2008). <i>The Craft of Research</i> . 3rd edition. Chicago and London: University of Chicago Press.

Nature and Culture (Research Design across Disciplines)			
Course Number	00LE62S-LAS-CO0042	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	The Challenge of Interdisciplinarity	Module(s) (StuPo 2015)	Research Design across Disciplines
Open to Students	Year(s) 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Sabine Sané (sabine.sane@ucf.uni-freiburg.de) and Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar/Workgroups Mon, 12-14h, AU 01065 Fri, 10-12h, AU 01065 13.-14.02.2020 - student conference (participation is part of the course).		
Course Description	<p>In the fourth year of LAS studies it is time to take stock of your knowledge on how to plan and conduct an independent research project. The course Research Design exposes you to the expectations to high quality research and encourages discussion on the differences and similarities across the areas of intellectual interests that you and other students will bring to the course. We will summarize, analyze and improve your ability to plan and manage a small-scale research project.</p> <p>The modern knowledge system has specialized research into the natural and the human world. But, the distinction between “Nature” and “Culture” is not clear cut. There are cultural differences in whether and how cultures define their difference from nature. Moreover, culture itself can be considered a natural phenomenon, an adaptive behaviour. And, all academic disciplines—natural, social, and human sciences—are dependent on the cultural background of those who decide to conduct the research and where they will do it.</p> <p>So how do the natural sciences, social sciences, and humanities interact when researching topics, questions, or problems that blur the Nature-Culture boundary? Does a literary scholar studying a poem about trees understand the experimental design of a botanist? Does an animal behaviourist studying behavior among baboons understand the anthropologist’s theories of culture?</p> <p>In this course we will look at examples of research that crosses the nature-culture divide both in terms of topics of investigation and in terms of research methodologies.</p> <p>The course will consist of both seminar-style discussions of readings as well as workshops dedicated to honing research methods. Students will design and carry out small research projects focused on a nature-culture problem, the results of which they will present in a class conference at the end of the term. Methods will include: framing a research topic; situating the question within a scholarly debate and literature; gathering and analyzing data (including qualitative and/or quantitative); developing an argument; and creating a successful academic research proposal and presentation.</p>		
Remarks	<p>The course is open to all Majors and is not content-oriented. Intellectual openness is both a prerequisite and a desired outcome.</p> <p>Concluding conference takes place on Feb 13 and 14, please reserve these dates.</p>		

Planning and Doing Research			
Course Number	00LE62S-LAS-CO0042	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	The Challenge of Interdisciplinarity	Module(s) (StuPo 2015)	Research Design across Disciplines
Open to Students	Year(s) 4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Simon Büchner (buechner@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar/Workgroups Mon, 12-14h, Ph HS1 Fri, 10-12h, Ph HS3 13.-14.02.2020 - student conference (participation is part of the course).		
Course Description	<p>In the fourth year of LAS studies it is time to take stock of your knowledge on how to plan and conduct an independent research project which you may or may not turn into your bachelor thesis. The course 'Planning and Doing Research' exposes you to the expectations to high quality research and encourages discussion on the differences and similarities across the areas of intellectual interests that you and other students will bring to the course. We will summarize, analyze and improve your ability to plan and manage a small-scale research project. The goal is to come up with a proposal including a research plan which you can then discuss with a (potential) supervisor.</p> <p>For this, we will run through all phases of a research project and discuss and practice related activities involved in each step. This includes, finding an interesting research topic, developing a manageable research question, ethical considerations when doing research, selecting an appropriate method (e.g. qualitative, quantitative), coming up with a suitable research design, approaching a potential supervisor, collecting, analyzing, and interpreting data (verbal and numerical), drawing conclusions, critically discussing your own work, and presenting your plans and results effectively.</p> <p>The course will be a mix of instructor presentations, reading-based discussions, individual and group exercises, and student presentations. The starting point will be content from previous courses in order to extend your skills and knowledge, so that you can apply them to your research project and eventually turn it into a thesis. There is no topical focus in this course and students from all majors are welcome.</p>		
Remarks	<p>The course is open to all Majors and is not content-oriented. Intellectual openness is both a prerequisite and a desired outcome.</p> <p>Concluding conference takes place on Feb 13 and 14, please reserve these dates.</p>		
Examination Dates	Graded assessment: presentation of research plan in the second half of the course, and written research proposal (due: February 23, 2020).		
Recommended Reading	Booth, W., Colomb, G. & Williams, J. (2008). <i>The Craft of Research</i> . 3rd edition. Chicago and London: University of Chicago Press (Reading room: EDU/Boo/1) Snieder, R., & Lerner, K. (2009). <i>The Art of Being a Scientist: A Guide for Graduate Students and Their Mentors</i> . Cambridge University Press. (UB: NA/2018/84)		

Science in Context: An Introduction to Science and Technology Studies			
Course Number	00LE62S-LAS-CO0017 00LE62V-LAS-CO0017	Teaching Period	Semester
Study Area(s)	Core	Credit Points	6
Module(s) (StuPo 2012)	Knowledge in Context	Module(s) (StuPo 2015)	Science in Context
Open to Students	Year(s) 2,3,4	Max. Enrollment	80
Prerequisites	none		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Lecture: Wed, 14-16h, AU HS1 Workgroups WG1: Thu, 16-18h, BT 206 WG2: Thu, 16-18h, BT 205 WG3: Thu, 18-20h, BT 206		
Course Description	<p>This course introduces students to classical and recent approaches in Science Studies, an interdisciplinary field that draws from anthropology, sociology, political sciences, philosophy, history and cultural studies to explore what counts as scientific knowledge and why, and how science and technology intervene in (and interact with) the wider world.</p> <p>In the common picture of science, science produces and accumulates scientific knowledge by directly confronting nature, and it makes constant progress because of its systematic method. Different scientists, the common view holds, should perform an experiment similarly; scientists should be able to agree on important questions and considerations; and different scientists considering the same evidence should accept and reject the same hypotheses. Accordingly, scientists should be able to agree on truths about the natural world, and contribute to the accumulation of universally valid knowledge.</p> <p>In contrast, Science Studies scholars have insisted – and the course starts from here – that science is a thoroughly social activity. It is social in that scientists are members of communities, trained into the thought styles, practices and working routines of these communities and necessarily working with them. Science studies scholars have further emphasized that</p> <ul style="list-style-type: none"> • Scientific knowledge bears the stamp of its historical trajectories, • Scientific knowledge is embedded in practices, • Scientific knowledge is involved in struggles for power, • Scientific knowledge is controversial, debated, negotiated, and stabilized, • Scientific knowledge oscillates between the local and the universal. <p>In this course, we will discuss the implications of such an approach for considering scientific knowledge, but also for considering the interactions between science and society. The course instructor will introduce -- and draw on -- her own research on societal implications of population genetic investigations for a more vivid demonstration of these points. The course will allow students to reflect upon their own involvement in science and technology, to develop a critical and nuanced understanding of the role of science and technology in society, and to consider the impact and implications of their own work for society.</p>		

4.2 Study Area: Culture and History

An Intellectual History of Feminist Thought			
Course Number	00LE62S-LAS-CH0021	Teaching Period	Semester
Study Area(s)	Culture & History, Electives	Credit Points	6
Module(s) (StuPo 2012)	Culture and History Since the Early Modern Period Advanced C&H I or II, Specialization Option: History	Module(s) (StuPo 2015)	Culture and History Since the Early Modern Period Advanced C&H I, II, or III Specialization Option C&H I or II
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	20 (18 LAS, 2 MKW)
Prerequisites	Introduction to Culture and History		
Instructor(s)	Dr. Ryan Plumley (ryan.plumley@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 10-12h, AU 01065 Wed, 10-12h, AU 01065		
Course Description	<p>What makes thought “feminist”? Is feminism one important strand among the powerful discourses of liberation arising out of the Enlightenment? Or can it offer an alternative to the patriarchal and masculinist foundations of those very discourses? When and how did feminism arise as a major form of critical thought in the West? What transformations has it gone through? Is feminism still a vibrant mode of thought, or has it been supplanted by other concerns? How does gender and queer theory emerge out of and continue feminist modes of critique?</p> <p>In this course we will address these questions by tracing the history of feminist thought in the West from the late eighteenth century to the twenty-first century. Beginning with nineteenth-century efforts to articulate a feminist agenda within Anglo-American liberalism and European marxism, we will then turn to twentieth-century efforts to radically rethink the politics of gender in French feminism and more recent theory and reflection. Attentive to relevant transformations in the social, economic, political, and cultural context, we will follow the lines of intellectual transmission and contestation within feminism. While our primary goal will be to reflect on the history of this particular tradition, we will also address the ways that feminism has grappled with and challenged other major traditions: liberalism, marxism, psychoanalysis, and philosophy.</p>		
Examination Dates	14 February 2020		

Cultures of Everyday Violence			
Course Number	00LE62S-LAS-CH0051	Teaching Period	Semester
Study Area(s)	Culture and History, Electives	Credit Points	6
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	Year(s) 2, 3, 4	Max. Enrollment	16 (14 LAS, 2 MKW)
Prerequisites	Introduction to Culture and History		
Instructor(s)	Dr. Marie Muschalek (marie.muschalek@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Tue, 12-14h, AU 01036a Thu, 12-14h, AU 01036a		
Course Description	<p>Whether extreme and belligerent or more diffuse and mundane in nature, violence is, and has been, present in all societies. It seems to be a fundamentally human fact. This course offers an introduction into the study of humankind, that is, into the fields of socio-cultural and historical anthropology, through a discussion of the complex and vexing issue of violence. Yet, not war and mass murder, but everyday "normal" or normalized forms of violence will be the object of interest: the physical confrontations, abuses, and harms of daily life in peacetime societies.</p> <p>We will account for their different perspectives – be it of the victim, the bystander, or the perpetrator, but also of the witness, the reporter, or the researcher. And we will touch upon the multiple ways in which people deal with and behave within violent situations – the range of their emotions, their lines of reasoning, their bodily movements, etc. However, violence always also has a context (social, cultural, and historical). You will therefore be asked to engage with a number of concrete case studies from disparate areas of the world and different time periods that will help you carve out further the specificities of cultures of violence and their broader (ethical and political) implications.</p> <p>Attempting to understand violence and to represent violence are closely related endeavors. Both are tightly linked to questions of ethics and politics, to the critique or justification, sometimes glorification of violence. We will therefore also discuss violence in connection with its representation.</p> <p>This class is for second-year students and intended to be challenging. You will be expected to read both extensively and intensively. Our readings will be from a wide variety of disciplines and text genres including scholarly work, philosophical essays, fiction, and others. We will moreover work with visual sources, notably film and photography.</p> <p>Learning objectives are:</p> <ul style="list-style-type: none"> • to earn a sense of the major paradigms and debates in violence studies • to develop a theoretically informed and critical understanding of the "problem" of violence with which to (re)assess received ideas, prevalent assumptions, and default policies • to get familiarized with crucial theoretical concepts of inquiry in the fields of socio-cultural anthropology and anthropological history • to be introduced to the methods of qualitative field work <p>Course requirements:</p> <ul style="list-style-type: none"> • attendance and participation in class • reading responses to assigned readings/viewings (pass/fail) • a small qualitative field study (graded) • final essay (graded) 		

Kant			
Course Number	00LE62S-LAS-CH0007	Teaching Period	Semester
Study Area(s)	Culture and History, Electives	Credit Points	6
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	Year(s) 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Culture and History		
Instructor(s)	PD Dr. Tobias Henschen (tobias.henschen@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	4.11-11.2 Seminar Mon, 14-16h, Ph HS3 Tue, 18-20h, Ph HS2		
Course Description	This course aims to introduce and explain the most important positions and arguments that make up Kant's system of thought. Readings will include selections from all areas of his mature work, especially from his writings on theoretical philosophy (Critique of Pure Reason, Prolegomena to Any Future Metaphysics), ethics (Groundwork of the Metaphysics of Morals, Critique of Practical Reason), political philosophy (What Is Enlightenment?, Perpetual Peace, Ideas For a Universal History With A Cosmopolitan Purpose), philosophy of religion (Religion Within the Boundaries of Pure Reason), aesthetics (Critique of Judgment) and anthropology (Anthropology From a Pragmatic Point of View). No prior knowledge of Kant is required. The course is well suited both for students who are interested in learning more about Kant's system, and for students who are interested more generally in the relationship between philosophy, science, ethics, politics, aesthetics, religion, history and anthropology.		
Examination Dates	Pass/fail requirements: regular attendance and active participation in class discussion and group work.		
Recommended Reading	Kant, Immanuel (1783/1997): <i>Prolegomena To Any Future Metaphysics</i> . Cambridge: CUP.		

Utopian and Dystopian Writings			
Course Number	00LE62S-LAS-CH0035	Teaching Period	Semester
Study Area(s)	Culture and History, Electives	Credit Points	6
Module(s) (StuPo 2012)	Contemporary Art, Literature, Aesthetics, or Music Advanced C&H I or II	Module(s) (StuPo 2015)	Art, Literature, Aesthetics, or Music Advanced C&H I, II, or III
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	20
Prerequisites	Introduction to Culture and History		
Instructor(s)	Prof. Jon Adams (jon.adams@slackwaterpress.com)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Tue, 10-12h, FMF 01009 Thu, 10-12h, KG 1236		
Course Description	Utopian writing is the dream that human society can be improved if it were only better organized, or at least differently organized. Dystopian writing is that dream turned into a nightmare. The utopian dream usually takes the form of a more equitable society, in which the work and resources of a society are shared by all of its members. Within this idea, writers have found room for their particular style of utopia. For example, in Gilman's "Herland" all of the members of society are female. The dystopian nightmare takes various forms of inequality that lead to social oppression, either from technological abuse or political dictatorship, or a combination of both. Dystopian writing has dominated the twentieth-century, partly because it is used as a form of protest literature, a protest against the way society is or what it might become, such as a society that is sexist, overpopulated, ecologically degraded, or simply extinct.		
Examination Dates	13 February 2020		

4.3 Study Area: Earth and Environmental Sciences

Biodiversity Loss and Entomology -- Let's get in touch with insects			
Course Number	00LE62S-LAS-EE0018	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: EES I or II Elective module (Joker) for "Restplätze" only	Module(s) (StuPo 2015)	Analytical methods Specialization Option: EES I or II Elective module (Joker) for "Restplätze" only
Open to Students	Year(s) 3,4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences		
Instructor(s)	Vivien von KönigsLöw (vivien.von.koenigsloew@nature.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 10-12h, AU 01036a Wed, 10-12h, AU 01036a		
Course Description	Journal headlines, media fuzz and even a referendum in Bavaria - insect decline is on everybody's lips. But how much do we actually know about the life history and the decline of insects? In this course, you will learn more about the current state of knowledge: Which data do we have? Which reasons are blamed for the decline of insects and which solutions are discussed to overcome it? A lot of practical work complements the theoretical part. You will help in a real research project about the effect of different vegetation structures on bees and wasps in agricultural landscapes. Throughout the course, we will investigate the nests of cavity-nesting bees and wasps and you will gain detailed knowledge about the nesting habits of different species. In the end, you will do a little analysis of the collected data.		

4.4 Study Area: Governance

Law and Policies of the European Union			
Course Number	00LE62S-LAS-GO0009	Teaching Period	Semester
Study Area(s)	Governance, Electives for other majors	Credit Points	6
Module(s) (StuPo 2012)	Electives only for other Majors	Module(s) (StuPo 2015)	Regional Governance, Electives only for other Majors
Open to Students	Year(s) 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	21.10-14.2 Seminar Tue, 12-14h, AU 01065 Thu, 12-14h, AU 01042		
Course Description	<p>The Law and Policies of the European Union course focuses on some contemporary challenges that the European Union is facing. There are many questions about the current stand of the EU as well as its future: Is there an alleged democratic deficit of the EU institutions and how is the work of the EU perceived on global, European and local levels? How do the EU institutions such as the Commission, the Council, the European Council, and the European Parliament function and make policies? What happens when there is a conflict between the EU institutions as regards their competences to regulate policy areas? Will there be an EU of "two speeds"? Why is Brexit so complex? What is the chance of further enlargement of the EU in the Western Balkans, Ukraine, or Turkey in light of the recent rise of populist parties in the EU? How is free movement of people regulated in the EU? Is the EU a harbinger in data privacy protection on international level? Does the EU speak with one voice when it comes down to foreign policy? This is a sample of issues that we will address in the course. Additionally, the course will offer an overview of the competences of the EU from legal perspective as well as the role of judicial review at EU level, infringement proceedings against Member States breaching EU law, and current developments in the Area of Freedom, Security and Justice and the Schengen Area as regards migration policies, among others.</p> <p>Students may be divided into small groups and may be required to deliver short analytical presentations or outlines on written material and media sources related to the topics covered in the course. Group activities and presentations are to be expected as the course will be highly interactive. Simulations of the proceedings in EU institutions may take place in the course. The course may include organized visits to EU institutions.</p>		
Examination Dates	Form of assessment: The final grade will be based on analytical or research paper(s)/ policy paper(s), case notes, and/or presentation(s). Final component of the examination will be due on 24 February 2020.		
Recommended Reading	For an overview of EU policies: " Europe in 12 Lessons ". For the latest news from Brussels and current events and developments in the EU, you can check the free-access Politico as well as the daily newsletter Brussels Playbook . Another publication that offers insights from Brussels is The EU Observer . An introductory academic text on the topic of the functioning of the EU: D. Kenealy, J. Peterson, and R. Corbett, <i>The European Union: How Does It Work?</i> (OUP, 5th edition) For guidance in EU Law, we will rely on: A. Arnulf and D. Chambers, <i>The Oxford Handbook of European Union Law</i> (OUP 2015)		

KG Kollegiengebäude
 AU Alte Universität
 HH Hermann-Herder-Str
 HS Hörsaal

Ph Peterhof
 BT Breisacher Tor
 FMF Freiburger Materialforschungszentrum
 SR Seminar Room

Moot Court Meetings			
Course Number	00LE62S-LAS-GO0010	Teaching Period	Semester
Study Area(s)	Governance only, not Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option GOV I or II (Supervised independent studies)	Module(s) (StuPo 2015)	Specialization Option GOV I or II (Supervised independent studies)
Open to Students	Year(s) 3,4	Max. Enrollment	4
Prerequisites	Introduction to Governance, Principles of Law		
Instructor(s)	Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Meetings Thu, 14-16h, AU 01042		
Course Description	<p>The moot court activity is an opportunity for students to develop knowledge and understanding of fundamental principles of Human Rights Law as a subject matter of the selected moot (European Court of Human Rights). The participants gain skills to analyze fact problem sets and identify and apply the relevant legal provisions. Emphasis is put on developing skills of legal research and oral and written advocacy.</p> <p>The first part of the Moot Court project will be dedicated to brief drafting and completion of the written portion of the moot court exercise; the oral argument portion of the Competition will be conducted in the second part of the project. The scheduling of classes for the Moot Court course depends on the scheduling of the moot competition a particular group is participating in. Selection of the students participating in the moot exercise will be based on individual applications and/or interviews.</p> <p>Moot court preparatory meetings will be conducted on a weekly basis to discuss and analyze the moot court problems and to adequately prepare for the written and oral submissions. Additional mooting practices may be arranged accordingly.</p> <p>Learning goals</p> <p>Upon successful completion of this course, students should be able to:</p> <ol style="list-style-type: none"> 1. have skills to analyze legal problems in a particular problem set; 2. identify, analyze and apply relevant legal provisions to a particular problem set scenario; 3. have improved advocacy skills. <p>Form of Assessment</p> <p>Regular attendance of moot preparatory sessions and active participation in group work and exercise. The final grade will be based on the moot written position paper/memorandum and/or a report.</p>		
Remarks	This course can be taken only as a Supervised Independent Study project and thus follows a specific registration procedure.		

Political Theory			
Course Number	00LE62S-LAS-GO0013	Teaching Period	Semester
Study Area(s)	Governance, Electives for other majors	Credit Points	6
Module(s) (StuPo 2012)	Theoretical Foundations and Hermeneutical Methods	Module(s) (StuPo 2015)	Theoretical and Philosophical Foundations of the Social and Political Sciences
Open to Students	Year(s) 2,3,4	Max. Enrollment	22
Prerequisites	none		
Instructor(s)	Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 16-18h, KG 1231 Wed, 16-18h, KG 1231		
Course Description	<p>Should there be limits to free speech? Is affirmative action good for equality? Is progressive taxation fair? Come and debate these and similar question during the WS in the course Political Theory. In this course, we will study some core ideas of political theory, and get familiar with the work of the brightest minds of the Western political thought. The aim of the course is to discuss politically controversial topics, and approach these from different theoretical perspectives.</p> <p>This course uses problem based learning as a method of instruction.</p> <p>In other words, the students are expected to discuss the course material intensively and actively in groups of 4-5 students.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> • Students will learn to relate political arguments employed by politicians and other debaters to the different traditions of political theory; • Students will learn to understand their own political opinions in relation to thinkers such as Marx and Mill; • Students will learn to approach politically controversial topics from several different perspectives; • Students will learn to formulate their own opinions in an academically sound way. 		
Remarks	Students intending to major in Governance are strongly recommended to take this course in their second year of LAS studies. Second-year students have priority.		
Examination Dates	Graded assesment: Written assignments. The final part of the examined material will be due on 28 February 2020.		
Recommended Reading	Hoffman, John, and Paul Graham (2015): <i>Introduction to Political Theory</i> . London and New York: Routledge. Mill, John Stuart (1859): <i>On Liberty</i> . Marx, Karl, and Friedrich Engels (1848): <i>Manifesto of the Communist Party</i> .		

Public International Law			
Course Number	00LE62S-LAS-GO0008	Teaching Period	Semester
Study Area(s)	Governance, Electives for other majors	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Law, Politics, Administration Advanced Governance III	Module(s) (StuPo 2015)	Specialization Option GOV I or II Advanced Governance III
Open to Students	Year(s) 3,4	Max. Enrollment	20
Prerequisites	Introduction to Governance AND Principles of Law		
Instructor(s)	Dr. Stoyan Panov (stoyan.panov@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Advanced Seminar Mon, 16-18h, KG 1032 Wed, 16-18h, KG 1134		
Course Description	<p>This course is an introduction to international law. It gives the students an understanding of the way international actors coexist, interact and make law and mastery of the principles governing international legal relations. Public International Law is traditionally the law between states, but the course also covers a more diverse group of actors in the international legal order. Some of the fundamental questions discussed in the course are: Who creates International Law? Does International Law work? What are the consequences of breaches of International Law? What entities can be considered States? In what circumstances can States resort to use of force? Why do we have International Human Rights Law and do States have the responsibility to protect human rights beyond their borders?</p> <p>The weekly plenary sessions, seminars and workgroups cover essential topics of International Law such as the identification and function of actors in the international legal order (States, Statehood, International Organizations), the creation of international law (Sources of International Law such as treaties, custom, and general principles), and the consequences of breaches of International Law (State Responsibility & International Dispute Settlement Mechanisms). The course also focuses on selfdetermination, the particular role of individuals in International Law (Human Rights), applicability of immunities, the legal aspects of the threat or use of force, law enforcement mechanisms against terrorism, international environmental law, and the prohibition of torture. Relevant current events will be discussed on regular basis.</p> <p>The learning goals for students taking the course for Advanced Governance III include:</p> <ol style="list-style-type: none"> 1. acquire detailed understanding of actors and functions of international law; 2. qualify you to select and apply theories, case selections or studies and/or methods of international law; 3. acquire and enhance interpretation and methodology skills in the field of international law in a research paper form with a special emphasis on research design; <p>Upon successful completion of this course, students should be able to:</p> <ol style="list-style-type: none"> 1. be familiar with central topics of International Law; 2. identify and analyze International Law in particular problem sets; 3. reflect upon the function and structure of International Law; 4. acquire skills to interpret and apply International Law provisions covered in the course. 		

	Form of assessment Pass/fail: Regular attendance of classes and active participation in group work and Exercises. Graded exam material: Written assignments, research paper/research design analysis case note, and/or presentations, and/or written exam.
Examination Dates	10 February 2020
Recommended Reading	<i>International Law</i> , ed. M. Evans (4th edition), Oxford University Press

4.5 Study Area: Multiple

Environment Risks and Us			
Course Number	00LE62S-LAS-LSEE0002	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Life Sciences, Electives	Credit Points	6
Module(s) (StuPo 2012)	Human and Health Specialization Option: EES I or II Advanced LS I, II or III Elective module (Joker)	Module(s) (StuPo 2015)	Human and the Environment Specialization Option: EES I or II Advanced LS I, II or III Elective module (Joker)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Earth and Environmental Sciences and/or Introduction to Life Sciences		
Instructor(s)	Dipl.-Chem. Ismene Jäger (info@oekologischesetze.de) Prof. Dr. Dirk Bunke (D.Bunke@oeko.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 16-18h, HHS R 01 020b Wed, 16-18h, HHS R 01 020c		
Course Description	<p>In this course students explore the manifold impacts of human activities on the environment and resulting risks – for human health as well as for the environment. The course aims to create an understanding of present sources for environmental pollution, alternative options to act as well on regulatory and voluntary steps for abatement. Based on examples from everyday life products, several groups of pollutants and their sources will be introduced. Examples are given to show the environmental fate of chemicals and mechanisms how chemicals can interfere with organisms. . In addition, students develop basic skills in environmental risk assessment and management strategies. The course will include topics such as properties of eco-labels, assessment of chemicals e.g. chemicals in products from your everyday life, ecotoxicology, assessment of contaminants in surface/drinking waters and their effects on human health, environmental pollutants and their effect on animals, their regulation and their substitution.</p> <p>The course also includes two excursions and several practical examples</p>		
Remarks	Excursion on Friday possible		

Genetic Research in Vulnerable Populations: An STS Perspective			
Course Number	00LE62S-LAS-IN0013	Teaching Period	Semester and block date
Study Area(s)	Electives	Credit Points	6
Module(s) (StuPo 2012)	Elective module (Joker)	Module(s) (StuPo 2015)	Elective module (Joker)
Open to Students	Year(s) 2,3,4; open to students of other programs	Max. Enrollment	20 (13 LAS, 7 other programs)
Prerequisites	Life Sciences major; or similar training		
Instructor(s)	Prof. Dr. Veronika Lipphardt (veronika.lipphardt@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Tue, 14-16h, AU 01036a Extra date: 1.2, 9-16h, HS 1136		
Course Description	<p>Doing research in vulnerable populations often means to operate in socially and/or economically deprived communities, in politically tense or charged situations. This requires heightened cultural, societal and ethical sensitivity on the side of researchers. From the perspective of STS, the social sciences and the humanities, knowing the history, the societal and political situation of those communities is necessary in order to contextualize research findings as well as policies drawing upon research.</p> <p>In this seminar, we focus on genetic research in such populations and ask for its societal implications. Geneticists in this field speak about “genetically isolated populations” and, for a number of reasons, praise them as particularly valuable for studying health risks, population history, and population dynamics. For example, in biomedical research, the choice of “genetic isolates” for studying medically relevant aspects is believed to be advantageous: it requires only small sample sizes and hence reduces the costs for genetic sequencing. This way the “rare” DNA become a source of “biovalue”, a “national resource” and an asset for sequencing consortia and biotechnological companies.</p> <p>Yet what geneticists call “genetic isolation” often comes with societal vulnerability: Populations that are considered „genetic isolates“ are oftentimes socially marginalized, have experienced discrimination and persecution in their history and face a number of challenges up until today. To approach such a „genetically isolated“ and vulnerable population as a genetic research object means to interpret the historical and social situation of a group under a genetic paradigm. This goes hand in hand with framing the investigated group as a population that is separate from the overall society, and in the specific terminology of human genetics (e.g. “endogamous group at high risk for genetic diseases”).</p> <p>In the course, we will read and discuss literature from the field of STS that highlights the problematic aspects of such genetic research. These problematic aspects include epistemological ones – for example, the representativity of the sample – as well as ethical, societal, political and economic ones. We will contextualize genetic research in vulnerable populations within the academic literature that deals more generally with human population genetics and its societal implications. We will draw on case studies mainly from the Americas, covered in that literature. For the main part of the seminar, we will concentrate on genetic studies focusing on one „genetically isolated population“ from Europe and discuss this strand of research from a variety of perspectives, i.e. from the perspective of the life sciences and from the perspective of the social sciences and humanities. Informed by our interdisciplinary collaborations, throughout the course, we will reflect upon what it means to undertake an interdisciplinary research inquiry.</p>		

	<p>Learning objectives</p> <p>The course aims to two different areas of learning goals: 1. developing expertise in societal implications of genetic research in vulnerable populations; 2. acquiring skills in pursuing interdisciplinary research.</p> <p>At the end of the course students will develop a set of skills, knowledge and competencies related to:</p> <ul style="list-style-type: none"> • Understanding the different perspectives of genetics and science and technology studies (STS) about genetic vs. social isolation and vulnerability • Understanding methodological and conceptual challenges faced by the genetic research on vulnerable populations: assumptions, data acquisition and filtering, sampling, inter-pretation and extrapolation of findings, technical vs. stigmatizing language • Basic knowledge about the historical developments of genetic screenings, problematic aspects of ethnically/racially targeted genetic screenings and of ethncising/racializing genetic diseases • Being able to reflect critically, with arguments informed by critical perspectives from genetics, STS and science ethics, on genetic studies targeting vulnerable populations • Being able to problematize epistemological, methodological, ethical and political aspects in topics related to genetics and vulnerable populations • Understanding the dimensions and challenges of an interdisciplinary approach to this topic
Remarks	<p>We strive for a mix across Majors.</p> <p>If not all 13 LAS seats are taken, but interest of students from other programs is strong: Once registering for LAS students is completed, we will offer free LAS places to students from other study programs. If not all 7 other seats for students from other programs are taken, but interest of LAS students is strong: Once registering for students from other programs is completed, free places will be offered to LAS students.</p>

Geographic Information Systems (GIS)			
Course Number	00LE62S-LAS-GOLSEE0001	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Culture and History, Governance, Electives	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Culture Specialization Option: History Quantitative and Qualitative Methods (Governance) Specialization Option EES I or II Elective module (Joker)	Module(s) (StuPo 2015)	Specialization Option C+H I or II Quantitative and Qualitative Methods (Governance) Specialization Option EES I or II, Analytical Methods Elective module (Joker)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Steffen Vogt (steffen.vogt@geographie.uni-freiburg.de)		
Format, Dates, Times and Rooms	<p>21.10-14.2 Project work, Seminar Tue, 8-14h, Werthmannstraße 4 PC-Pool 9 Thu, 8-14h, Werthmannstraße 4 PC-Pool 1</p> <p>The course will take place in Block I for approx. 4 weeks from 8-12 and in Block II from 12-14h. Precise dates will be provided. The room is reserved for students to conduct independent project work outside of the course hours.</p>		
Course Description	<p>Geographic Information Systems (GIS) refer to the collection, analysis, storage and display of data which have a spatial reference to the Earth. Geographic Information Systems have broad applications in natural and social sciences, humanities, environmental studies, engineering, and management. Examples include wildlife habitat studies, urban and regional planning, agriculture and forestry, environmental impact assessment, crime prevention, consumer and competitor analysis, and many more. Integrated into web applications, GIS is also used increasingly to display, structure and communicate information and data to the general public (e.g. FreiGIS http://www.freiburg.de/pb/Lde/432515.html).</p> <p>This course introduces the concepts and components of a GIS and teaches some essential skills of operating a functional GIS through the use of the ArcGIS software package. After providing the basic operational skills, the course will deal with selected cases of GIS application in different disciplines.</p> <p>By completing this course, students will understand the characteristics of spatial data, operational processes of creating and editing spatial data, integration of available spatial data and the relevance of metadata, spatial query and display, and some simple spatial analysis and modeling techniques.</p> <p>In a self-dependent supervised study project during Block I and whole Block II after the intensive course students will practice the interpretation of spatial information. "Though GIS is excellent at finding patterns and apparent relationships, the human brain is also a key element in the final product which, as so often, takes the form of words" (Gregory et al. 2009, Environmental Sciences).</p> <p>The course starts with a intensive course in Block I, followed by a independent study project.</p> <p>This course is highly recommended for students who intend to specialize or master in disciplines of the above-mentioned fields, especially Earth & Environmental Sciences - and Governance students.</p>		
Remarks	Students of the major Earth and Environmental Sciences have priority.		

Journalism: Natural Science, Social Science, and the Humanities			
Course Number	00LE62S-LAS-CHEE0003	Teaching Period	Semester
Study Area(s)	Culture & History, Electives, Earth and Environmental Sciences	Credit Points	6
Module(s) (StuPo 2012)	Specialization Option: Culture Specialization Option: History Specialization Option EES I or II	Module(s) (StuPo 2015)	Specialization Option C&H I or II Specialization Option EES I&II
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	20 (18 LAS, 2 MKW)
Prerequisites	Introduction to Culture and History, Introduction to Governance, Introduction to Life Sciences, OR Introduction to Earth and Environmental Sciences		
Instructor(s)	Prof. Dr. Sabine Rollberg (srollberg@t-online.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar + Project work Mon, 16-18h, KG 1234 Wed, 16-18h, KG 1032		
Course Description	<p>This seminar will explore and practice knowledge transfer from the natural, social, and human sciences into the publics of democratic societies through journalism.</p> <p>Our increasingly complex world requires knowledge transfer between the academic and the non-academic world. Climate change, queer identity theory, human-machine technological interfaces—these are all topics that emerge out of academic research but have far-reaching implications beyond the university.</p> <p>Yet journalism about academic research is in trouble. Broadcasters care less and less about programming that seems elitist and highbrow and rather invest resources into more popular and lucrative programming.</p> <p>So, one guiding question will be how to effectively translate academic research in an increasingly competitive market for broadcaster resources and viewer attention.</p> <p>In this course, students will learn to distinguish between academic language and journalistic language, and to transform the former into the latter. The final project will be a video news magazine with contributions from each student drawn from their research interests in whatever field (natural, social, or human sciences).</p> <p>The course will include a week-long training in camera and editing work in preparation for the final project.</p> <p>Experts from print, radio, and television will be invited to share their theoretical knowledge and practical experiences. Students will help prepare these visits and evaluate what they learn from journalism experts.</p>		
Remarks	<p>Some session may include German-speaking visitors, and basic German competence is recommended. However, no part of the grade will depend on German, and non-German-speakers are entirely welcome to participate.</p> <p>This course mixes seminar-style learning with project-based learning. The hands-on technical training and project completion work will take place outside of the regular schedule, and students should plan to spend significant time in January/February, 2020 completing the final project.</p>		

Livable Cities in the Global North and South: Urban Politics and Urban Sustainability			
Course Number	00LE62S-LAS-GO0054	Teaching Period	Semester
Study Area(s)	Governance, Earth and Environmental Sciences, Electives for other majors	Credit Points	6
Module(s) (StuPo 2012)	Advanced Governance I or II, Human and the Environment, Elective module (Joker)	Module(s) (StuPo 2015)	Advanced Governance I or II, Human and the Environment, Elective module (Joker)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Governance OR Introduction to EES		
Instructor(s)	Dr. Alke Jenss (alke.jenss@abi.uni-freiburg.de) Dr. Arian Mahzouni (arian.mahzouni@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 10-12h, HS 1134 Wed, 10-12h, HS 1134		
Course Description	<p>According to the United Nations, urban areas currently host 55% of the world's population, the figure expected to increase to 68% by 2050. Ways to provide amenable and healthy livelihoods for all in these rapidly growing urban areas are needed. This course addresses urban politics and urban sustainability problems - access to and management of basic urban services, e.g., drinking water, sewage, solid waste disposal, energy, mobility and housing - from environmental and social science perspectives. It provides practical examples of governance arrangements, power relations, planning policies and transition pathways in the cities of Global South and Global North.</p> <p>The course has two interrelated parts. The first part focuses more on environmental aspects of urban sustainability, and the second part - more on social aspects of urban planning and management. In a final paper, students will integrate both aspects into a holistic approach, to address such question as: How do we realise environmentally and socially just cities in Global South and Global North? What are the opportunities and challenges to promoting shared learning and knowledge transfer between cities in Global North and Global South?</p> <p>Part I (October-November). Urban Environmental Sustainability: The environmental sciences perspective will focus on urban energy transition and matter cycles as key strategies to decreasing human-induced environmental problems in cities. It aims to provide students with extensive knowledge on planning policies, practices and pathways of energy transition with particular focus on housing and mobility sectors. We will discuss best practices from European cities (e.g., Freiburg, Stockholm and Basel) and cities of the Global South. Students are encouraged to investigate case studies and develop their own approach to making our cities more sustainable and resilient.</p> <p>Part II (December-February). Urban Politics: The social science perspective approaches cities as complex agglomerations of urban actors engaging in urban politics and shaping cityscapes: governments, planners, investors, homeowners, and residents. It critically discusses the role of urban security, social control, and policing in making cities livable. It discusses topics brought up in Part 1 (urban infrastructures, mobility, housing) from a critical governance perspective. Some guiding questions: How to build a sustainable city in contexts of rampant inequality? Which concepts help understand the planned city as a spatial project? How have particular ideas of model urbanity transformed cities?</p> <p>Learning goals</p>		

	<ul style="list-style-type: none"> • Understand the opportunities and challenges of taking an interdisciplinary approach across social and environmental sciences to comprehend the complexity of 'urban sustainability governance'; • improve analytical thinking skills in mapping potential conflicts of interest between different stakeholders and identifying synergies and trade-offs among key elements of urban sustainability e.g., social, environmental, economic, cultural, etc.; and • review, interpret and analyse the key literature on urban planning and urban studies from social and environmental sciences perspectives, in a holistic manner.
Examination Dates	<p>Pass/fail: a group presentation in the first part of the course, discussion leads in the second part of the course, active participation in both parts including preparing questions on home reading.</p> <p>Graded: written assignment based on the group presentation (min 2500 words, 25% of the grade), annotated bibliography building towards final paper (25%), final research paper (max 5000 words, 50%). Final paper submission by March 10, 2020.</p>
Recommended Reading	<p>Castán Broto, V., Allen, A., & Rapoport, E. (2012). Interdisciplinary Perspectives on Urban Metabolism. <i>Journal of Industrial Ecology</i>, 16 (6), 851–861. http://doi.org/10.1111/j.1530-9290.2012.00556.x</p> <p>Mahzouni, A. (2018). Urban brownfield redevelopment and energy transition pathways: A review of planning policies and practices in Freiburg. <i>Journal of Cleaner Production</i>, 195 (2018), 1476–1486. http://doi.org/10.1016/j.jclepro.2017.11.116</p> <p>The Guardian (2019): Lusail. Sleek New City Offers a Glimpse of Qatar's Post-Oil Future https://www.theguardian.com/cities/2019/jul/11/lusail-sleek-new-city-offers-glimpse-of-qatar-post-oil-future</p> <p>Bayat, A. (2000). From 'dangerous classes' to 'quiet rebels': the politics of the urban subaltern in the global South. <i>International Sociology</i>, 15 (3), 533–57.</p>

Maths and Physics			
Course Number	00LE62VS-LAS-LSEE0003	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Life Sciences, Electives for other majors	Credit Points	6
Module(s) (StuPo 2012)	Mathematics and Physics for the Liberal Arts and Sciences	Module(s) (StuPo 2015)	Mathematics and Physics for the Liberal Arts and Sciences
Open to Students	Year(s) 2,3,4	Max. Enrollment	45
Prerequisites	Introduction to Earth and Environmental Sciences and/or Introduction to Life Sciences		
Instructor(s)	Dr. Benoit Louvel (benoit.louvel@ucf.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 8-10h, Wilhelmstr. 26 R00006 Wed, 8-10h, Ph HS4 Tutorial Fri, 10-12h, KG 1236 Fri, 12-14h, KG 1021		
Course Description	In this course, Mathematics will be introduced from two points of view: Mathematics as a natural tool in Science, and Mathematics in the context of Number Theory. The first part of the course will present Mathematics as a necessary tool in the formalism of any scientific approach. In the second part, basic concepts of Classical Mechanics necessary for the understanding of nature will be introduced as an application of the first part. In the third part, fundamental concepts in Number Theory - from ancient maths to most challenging problems not yet resolved - will be addressed in order to put the student in contact with the abstraction of pure Mathematics.		
Remarks	Students majoring in Earth and Environmental Sciences or Life Sciences have priority		
Examination Dates	23 February 2020		

Methods Overview Seminar			
Course Number	00LE62S-LAS-GO0053	Teaching Period	Semester
Study Area(s)	Earth and Environmental Sciences, Governance, Life Sciences, NOT Electives	Credit Points	6
Module(s) (StuPo 2012)	Qualitative and Quantitative Methods (Governance)	Module(s) (StuPo 2015)	Qualitative and Quantitative Methods (Governance), Analytical Methods (EES), Methods (Life Sciences)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	Introduction to Governance OR Introduction to EES OR Introduction to Life Sciences		
Instructor(s)	Dr. Liudmila Mikalayeva (mikalayeva@ucf.uni-freiburg.de) Dr. Elina Schleutker (elina.schleutker@ucf.uni-freiburg.de) Felix Ettensperger, M.A. (felix.ettensperger@politik.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Wed, 12-14h, AU 01036a Fri, 12-14h, Werthmannstraße 4 PC-Pool 1		
Course Description	<p>This course focuses on the method-related choices scholars make across disciplines. It introduces students to a selection of academic methods: content analysis, descriptive statistics, multiple OLS-regression analysis, qualitative comparative analysis (QCA), and cluster analysis. We provide introductory material on each method and let students develop their understanding with short exercises in class and at home and through engagement with academic publications using these methods.</p> <p>Content analysis is a systematic study of texts aiming at inferences about directly unobservable phenomena, such as the author's preferences or prejudices, the relationship between the context and the content, or trends across time and space. It is based on paying attention to and carefully recording the choices that the authors / reviewers made among possible options (word choice, text structure, relative emphasis, tone, etc.).</p> <p>Descriptive statistics and OLS-regression enable us to study central tendencies and dispersion in data (descriptive statistics) and the relationship between variables (multiple OLS-regression). Knowledge in descriptive statistics is necessary in all research which involves numbers, and OLS-regression remains one of the most frequently employed quantitative methods in different fields (e.g. political science, sociology, psychology, biology). Understanding these techniques is essential to read quantitative research papers.</p> <p>QCA is a method of logical inferencing relying on the logic of agreement and difference. Rather than looking at the individual significance of variables, QCA focuses on the combination and interaction of variables. The premise of this method is that outcomes (for example, a revolution) can be causally explained by patterns of variables (economic, social, political conditions leading to revolutions) that are either necessary or sufficient for the outcome to occur.</p> <p>Cluster analysis relates to the grouping and segmentation of data, applied to find similarities between cases and evaluate the strength of the relations between individual objects in a dataset. This method helps discover natural groups of cases and evaluate their internal consistency. Clustering is a very popular method applied in almost all fields of science working with quantitative data.</p> <p>Learning goals:</p> <ul style="list-style-type: none"> acquit students with a selection of commonly used academic methods; 		

	<ul style="list-style-type: none"> • let students practice basic elements of the selected methods in exercises; • help students understand the presentation and discussion of methods in academic publications (the “method section”); • improve students’ competence in analyzing, reviewing and synthesizing existing research across a variety of disciplines; • integrate method-related knowledge from this course with knowledge and skills from other courses.
Remarks	The first part of the course (content analysis) is taught by Dr. Mikalayeva; the second part (descriptive statistics and regression) by Dr. Schleutker; the third part (QCA and cluster analysis) by Mr. Ettensperger.
Examination Dates	Graded assessment: short exercises on methods (5 exercises to complete during the semester, 12% each), a 48h take-home exam with questions on all methods covered in the course (submission deadline 26 February 2020, 40% of the grade).

Robot Design – Theory, Practice, Philosophy			
Course Number	00LE62S-LAS-IN0012	Teaching Period	semester
Study Area(s)	Electives	Credit Points	8
Module(s) (StuPo 2012)	Elective module (Joker)	Module(s) (StuPo 2015)	Elective module (Joker)
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	See remarks		
Instructor(s)	Dr. Reto Schölly (reto@reto-schoelly.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 16-20h, Ph HS4 Wed, 16-20h, BT 101		
Course Description	<p>Autonomous systems are becoming more and more an integral part of everyday's life. The best known examples are autonomous vehicles and robotic vacuum cleaners. These so-called "robots" - from Czech robota ("slave") - often evoke suspicion or loathing within the uninitiated. Critics often fear they might become a scourge upon their makers, taking human jobs away or even cause malice and mayhem, while supporters, on the other hand, like seeing those machines as a form of salvation from major human problems. In order to enable students to participate in the debate about pros and cons of robotics in an informed way this course will introduce basic knowledge about how autonomous robotic systems work in principle.</p> <p>This course will teach students about the inner workings of robots and the social change they will bring. After an introduction to the fundamentals of the technology, students will work hands-on with hardware and experiment and solve exercises with it. Later, students will construct their own robotic creation and present it.</p> <p>Contents:</p> <ul style="list-style-type: none"> • All sessions will include background information and discussions about the psychosocial impacts of robotic technology. • History of robotic systems. • Fundamentals of programming with python. • Fundamentals of electronics. • Fundamentals of robot design and 3D CAD. • Fundamentals of sensors. • Robot design, construction and testing. <p>The robots will be controlled via Raspberry PI version 3 Type B mini-computers (they will be lent to students for the duration of the course). Mechanical elements and frames will be designed using Blender (www.blender.org) and other open source programmes. The structures of the robots will be 3D printed using one of the instructor's printers. Electronic components and tools will be provided. All sessions will have two parts, the first being an introduction into the theory, and the second being a workshop where exercise projects will be assembled or relevant topics be discussed. The necessary hardware/background will be provided.</p>		
Remarks	Students must be willing and able to learn about said topics. Previous knowledge in the fields of programming, electronics, sensors, 3D printing, 3D design or robotics is helpful, but not required. Students must be willing and able to take a challenge. However, the instructor will guide the students every step on their way.		
Examination Dates	Project work.		

5 Courses of Other Degree Programs

5.1 Study Area: Culture and History

Art in the Anthropocene			
Course Number	tba	Teaching Period	Semester
Study Area(s)	Culture and History	Credit Points	6
Module(s) (StuPo 2012)	Contemporary Art, Literature, Aesthetics, or Music Advanced C&H I or II	Module(s) (StuPo 2015)	Art, Literature, Aesthetics, or Music Advanced C&H I, II, or III
Open to Students	Year(s) 2, 3, 4	Max. Enrollment	3 LAS
Prerequisites	Introduction to Culture and History		
Instructor(s)	Jessica Mulvogue, M.A. (jessica.mulvogue@gmail.com)		
Format, Dates, Times and Rooms	21.10-2.12 Seminar Mon, 14-18h, Stefan-Meier-Straße 26, R -1006		
Course Description	<p>The Anthropocene names a proposed new geological epoch in Earth's history brought about by human industry, such as the extraction of fossil fuels, the combustion of carbon-based fuels, agriculture and deforestation, nuclear testing and warfare, and plastic accumulation. Consequences of these activities include climate change, ocean acidification, soil erosion, and a sixth mass species extinction event. While the International Commission on Stratigraphy (ICS) and the International Union of Geological Sciences (IUGS) have not yet recognized this division of geologic time, the Anthropocene has become a key concept in humanist disciplines as it raises crucial questions surrounding human activity and technology, human agency, the idea of 'progress', human-nonhuman relations, the future of human and nonhuman worlds, and relations between human time and planetary time. It has also sparked debates about the centrality of nature in human-invented activities, systems, and systems-of-thought such as colonialism, slavery, capitalism, extractivist culture, and human exceptionalism. Its name, which re-centres the Anthropos, is itself an area of debate. It is not surprising then that the Anthropocene has also become a key area of inquiry for artists around the world.</p> <p>In this course we will examine how new media, film and photo artists are exploring the key questions, issues, and debates of the Anthropocene. We will look at a variety of still and moving image practices – photography, fiction & documentary film, experimental film, interactive media, AR and VR – to explore the concept of the Anthropocene from differing critical discourses, such as feminism, critical race studies, postcolonialism, Marxism, and posthumanism. At the same time, we will also consider media art's role in such debates: How can art present different avenues of understanding the Anthropocene and its implications for humans and nonhumans? How can it articulate pressing contemporary environmental issues related to the Anthropocene, such as climate change and petro-culture? What are its affordances in generating affective and emotional connections to the issues at play? And thus, what is the relationship between aesthetics and politics? Aesthetics and the environment?</p>		
Remarks	<p>This is part of a cooperation with Medienkulturwissenschaften. A limited number of spots (3) are available for LAS/C&H students. The seminar and graded work are in English.</p> <p>The exact dates of the single sessions will be announced at the beginning of the course.</p>		

Queer Pop 2.0			
Course Number	05LE54S-183	Teaching Period	Semester
Study Area(s)	Culture and History	Credit Points	6
Module(s) (StuPo 2012)	Culture and History Since the Early Modern Period Advanced 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	Year(s) 2, 3, 4	Max. Enrollment	3 LAS
Prerequisites	Introduction to Culture and History		
Instructor(s)	Dr. Bettina Papenberg (bettina.papenburg@mkw.uni-freiburg.de)		
Format, Dates, Times and Rooms	Seminar 08.11 14-18, KG II 2121 22.11 14-18, KG I 1134 06.12 12-18, KG I 1134 13.12 12-18, KG I 1134 and Vortragsraum (Rosastraße 17-19) 17.1-19.1 Queer Pop Conference		
Course Description	<p>Das Seminar versteht sich als Fortsetzung des im Sommersemester veranstalteten Seminars „Queer Pop“. Es baut auf die dort diskutierten Positionen auf, erweitert diese und führt sie mit Einsichten aus der queer-feministischen Affektforschung eng. Studierende, die das Vorgängerseminar erfolgreich absolviert haben, sowie Studierende mit Vorkenntnissen in feministischer Theorie, Gender Studies und/oder Queer Theory sind herzlich willkommen. Ziel des Seminars ist es, Präsentationen und Performances zu entwickeln, die auf der internationalen Tagung „Queer Pop“ am 17. und 18. Januar 2020 am Zentrum für Populäre Kultur und Musik im Rahmen eines studentischen Panels aufgeführt werden sollen. Das studentische Panel wird gemeinsam mit Studierenden der Medien- und Kulturwissenschaft der Heinrich-Heine-Universität Düsseldorf vorbereitet. Ein Seminarbesuch der Düsseldorfer Studierenden in Freiburg ist für den 13. Dezember 2019 geplant. Interessierte, die das Seminar „Queer Pop“ nicht besucht haben, melden sich bitte per Email bei der Dozentin mit einer kurzen Darstellung einschlägiger Vorkenntnisse.</p> <p>Popkultur umfasst und bezieht sich auf eine weitreichende Geschichte und zitiert ein großes Repertoire an Arbeiten von sexuell ambigen Musiker*innen, Filmemacher*innen, Autor*innen, Fotograf*innen und Performer*innen, inklusive aber nicht ausschließlich der Mitglieder verschiedener LGBTQI*-Communities. Begegnungen mit sexueller Ambiguität auf der Bühne lösen oft Faszination aus. Im alltäglichen Leben in unterschiedlichen sozio-kulturellen Umfeldern wird sexuellem und körperlichem Anderssein in all seinen Formen noch immer feindselig begegnet, was all jene Menschen, die von der weißen, männlichen, heterosexuellen, körperlich-uneingeschränkten Norm abweichen, verletzlich macht. Gesellschaften, welche nicht-normative und nicht-binäre Körperlichkeit stigmatisieren und nicht-heterosexuelle Formen von Begehren marginalisieren, instigieren Gefühle von Scham, Entrüstung, Angst, Scheitern und Depression in queeren, inter-sexuellen und trans* Subjekten.</p> <p>In den vergangenen fünfzehn bis zwanzig Jahren haben feministische und queere Wissenschaftler*innen das politische Gewicht solch „schlechter Gefühle“ mit neuer Intensität untersucht und im Hinblick auf spezifische Affekte die Frage gestellt, wie negative Affekte produktiv gemacht werden können. Feministische und queere Forschung zu Affekten berücksichtigt die befähigenden Momente der Entscheidung, sich nicht von negativen Affekten abzuwenden, untersucht kritisch deren Ursprung und erkundet den kreativen Einsatz dieser affektiven Intensitäten. Aus einer marginalisierten Sprech- und Schreibposition heraus bieten queere und feministische Wissenschaftler*innen eine Fülle an klarsichtigen Analysen und Interpretationen kultureller Phänomene.</p>		

	<p>Im Bereich der Popmusiktheorie ist das Thema der sexuellen Vielfalt seit geraumer Zeit Teil der Diskussion. Heutzutage legen Musiker*innen einen deutlichen Fokus auf Gender und sexuelle Identität. So stellt sich die Frage, wie und in welchem Umfang negative Affekte, ausgelöst durch sozialen Ausschluss, ästhetische Strategien in der Popmusik und Popkultur inspirieren.</p> <p>In Vorbereitung auf die Tagung „Queer Pop“ untersuchen wir im Seminar, wie feministische, queere und trans* Musiker*innen, Filmemacher*innen, Fotograf*innen und Performer*innen zur Popkultur beitragen. Welche Affekte lösen ihre Arbeiten aus, wie und zu welchem Zweck berühren sie ihr Publikum? Wie setzen queere Popstars ihre Berühmtheit, Mode und Performance ein, um mehrdeutige Botschaften über neue Formen von Gender, race, class und Begehren in Umlauf zu bringen und um die Grenzziehungen dessen, was als menschlich erachtet wird, erneut zu verhandeln? Welche alternativen, emanzipatorischen Formen Differenz zu leben und sich kreativ auf Differenzerfahrungen zu beziehen, ermöglichen ihre Arbeiten?</p>
Remarks	<p>This is part of a cooperation with Medienkulturwissenschaften. A limited number of spots (3) are available for LAS/C&H students. The seminar and graded work are in German.</p>

5.2 Study Area: Earth and Environmental Sciences

Energy Storage			
Course Number	11LE68V-8010	Teaching Period	semester
Study Area(s)	Earth and Environmental Sciences, Electives for EES students only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II Electives (Courses of other degree programs)	Module(s) (StuPo 2015)	Specialization Option: EES I or II Electives (Courses of other degree programs)
Open to Students	Year(s) 3, 4	Max. Enrollment	left-over places
Prerequisites	Successful completion of the course Energy (Technologies) at UCF		
Instructor(s)	Dr. Matthias Vetter, Dr. Peter Schossig, Dr. Tom Smolinka		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Wed, 8-10h, G.-Köhler-Allee 101, Seminar 00-010/014 Thu, 8-10h, G.-Köhler-Allee 101, Seminar 00-010/014 For changes, see HISinOne		
Course Description	<p>Introduction and motivation energy storage (electric, thermal, PtG): Large-scale integration of renewable energies and the role of energy storage; Technical requirements of power grids; Overview energy storage options and applications; Key parameter of energy storage systems; Technical requirements of storage systems; Economic analyses for storage systems</p> <p>Basics of energy storage systems: Mechanical (pumped hydro, CAES, fly wheels); Electric (SuperCaps); Electrochemical (Lead-acid, NiCd, NiMh, Lithium-ion; Sodium-ion; NaS / NaNiCl); thermal storage systems; chemical storage and PtG systems</p> <p>Design of battery systems (focus Lithium-ion): Test and characterization of cells; Battery module and system design (components, construction, cooling); Safety issues; Battery management; Thermal management; System integration (system options, power and communication interface); Peripheral components (inverter, energy management)</p> <p>Design of thermal storage systems: Description of technologies: sensible heat storage, latent heat storage, thermochemical storage. technical applications: long term storage, short term storage, from cold storage to high temperature storage. Component and system layout, best case examples, limits and future expectations</p> <p>Design of hydrogen storage and PtG systems: different system layouts and main components of hydrogen and PtG storage systems, water electrolysis as core component for PtG systems, advantages and drawbacks for repowering in fuel cells and thermal engines, best case examples of PtG installations, intersectoral extension to further Power-to-X technologies</p>		
Recommended Reading	See HISinOne		
Specific Remarks	<p>This course is open to advanced EES students only.</p> <p>LAS students register for the course and the exam in HISinOne. It is necessary to register for lectures AND workgroups if applicable. You can find the course in your Planner of Studies in the Electives area (Courses/modules of other degree programs - Modules Technical Faculty). For this course, LAS students do <u>NOT</u> need to additionally apply for credit recognition for courses of other degree programs at the University of Freiburg. Students need to approach the lecturers at the beginning of the course to demand if extra work is required to receive 6 instead of 5 ECTS (which is necessary for the recognition as a major course).</p> <p>LAS students who wish to have the course recognised in one of the major modules, must apply for change of module after the course (once the grades have been entered to</p>		

	<p>HISinOne). The application form for change of module is available in the examination office. !!!! For course and exam registration, dates of the technical faculty apply !!!!! Semester- und Vorlesungszeiten an der TF: http://www.studium.uni-freiburg.de/de/fristen-und-veranstaltungen/semester-und-vorlesungszeiten Belegphasen und weitere Termine: http://www.tf.uni-freiburg.de/de/studium-lehre/termine Termine und Fristen rund um Prüfungen an der TF: http://www.tf.uni-freiburg.de/de/studium-lehre/a-bis-z-studium/abmeldung-von-pruefungen For questions contact: Dr. Sabine Sanè – sabine.sane@ucf.uni-freiburg.de</p>
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Fundamentals of Resilience			
Course Number	11LE68V-8020 11LE68Ü-8020	Teaching Period	semester
Study Area(s)	Earth and Environmental Sciences, Electives for EES students only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II, Electives (Courses of other degree programs)	Module(s) (StuPo 2015)	Specialization Option: EES I or II, Electives (Courses of other degree programs)
Open to Students	Year(s) 3, 4 (EES only)	Max. Enrollment	left-over places
Prerequisites	Advanced EES students		
Instructor(s)	Prof. Dr. Stefan Hiermaier, Dr. Georg Clemens Ganzenmüller		
Format, Dates, Times and Rooms	21.10-14.2 Lecture Fri, 10-12h, G.-Köhler-Allee 101, Seminar 00-010/014 Übung Wed, 14-16h, G.-Köhler-Allee 101, Seminar 00-010/014 For changes, see HISinOne		
Course Description	<p>The lecture provides a clear understanding of the term “resilience” in an engineering context, specifically as compared to stability, robustness, flexibility or failure safety. Students realize that failure of transport systems, infrastructure, support chains and of other technical systems is not necessarily a consequence of technical malfunction or bad design. Students find that in contrast the ability to control failure of systems and catastrophes can be achieved by networks of perspective interaction, prevention and adaption. Continuous adaption of behavior of individuals and of the control of facilities will be understood as necessary steps towards increasing resilience.</p> <ul style="list-style-type: none"> • key concepts and ideas in resilience engineering • collection of typical systems addressed concerning their resilience • introduction to tools for quantitative risk analyses <p>Learning goals: see HISinOne</p>		
Recommended Reading	See HISinOne		
Specific Remarks	See specific remarks of the course Energy Storage on page 56.		

Grid Integration			
Course Number	11LE68V-8090	Teaching Period	semester
Study Area(s)	Earth and Environmental Sciences, Electives for EES students only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II, Electives (Courses of other degree programs)	Module(s) (StuPo 2015)	Specialization Option: EES I or II, Electives (Courses of other degree programs)
Open to Students	Year(s) 3, 4	Max. Enrollment	left-over places
Prerequisites	Successful completion of the course Energy (Technologies) at UCF		
Instructor(s)	Prof. Dr. Anke Weidlich		
Format, Dates, Times and Rooms	21.10-14.2 Tue, 12-14h, G.-Köhler-Allee 051, R 03 026 Wed, 10-12h, G.-Köhler-Allee 051, R 03 026 For changes, see HISinOne		
Course Description	<ul style="list-style-type: none"> • Energy system overview – generation, transmission, distribution, consumption • Energy transport; power and energy definition • Power generation analysis; • Transition of the energy systems; renewable energy grid integration • Power plants, storage, inverters • Grid theory; DC, AC circuits; system theory • System components: lines; transformers; generators; • Grid calculation; reactive and active power flow • Grid codes, grid regulation • Operation and control of electricity grids; primary, secondary and tertiary control; voltage control • Economic dispatch problem 		
Recommended Reading	See HISinOne		
Specific Remarks	See specific remarks of the course Energy Storage on page 56.		

Material Life Cycles			
Course Number	11LE68V-8030 11LE68Ü-8030	Teaching Period	semester
Study Area(s)	Earth and Environmental Sciences, Electives for EES students only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II, Electives (Courses of other degree programs)	Module(s) (StuPo 2015)	Specialization Option: EES I or II, Electives (Courses of other degree programs)
Open to Students	Year(s) 3, 4	Max. Enrollment	left-over places
Prerequisites	Advanced EES students		
Instructor(s)	Prof. Dr. Stefan Hiermaier, Dr. Sebastian Kilchert, Georg Clemens Ganzenmüller		
Format, Dates, Times and Rooms	21.10-14.2 Lecture Wed, 16-18h, G.-Köhler-Allee 082, HS 00 006 Übungen select one of the groups in HISinOne For changes, see HISinOne		
Course Description	Der Inhalt der Vorlesung teilt sich in drei Themengebiete. Im ersten Teil werden die gesellschaftlichen Rahmenbedingungen betrachtet, die in den letzten Jahren zu der immer größer werdenden Bedeutung des Themas Nachhaltigkeit geführt haben. Dabei befassen sich die Studenten mit der geschichtliche Entwicklung, Materialabhängigkeit, Ressourcen und Ressourcenverbrauch, kritische Ressourcen. Im zweiten Teil werden Definitionen von nachhaltiger Entwicklung und die verschiedenen Methoden zur Bewertung behandelt. Mit Fokus auf Materialien/Produkte werden Lebenszyklus, Lebensende, Kostenabschätzung, legislative Rahmenbedingungen besprochen. Im dritten Teil wird die Anwendung der gelernten Methoden an verschiedenen Fallbeispielen demonstriert. Übungen – see HISinOne		
Recommended Reading	See HISinOne		
Specific Remarks	See specific remarks of the course Energy Storage on page 56.		

Solar Energy			
Course Number	11LE68V-8060	Teaching Period	semester
Study Area(s)	Earth and Environmental Sciences, Electives for EES students only	Credit Points	6 ECTS
Module(s) (StuPo 2012)	Specialization Option: EES I or II, Electives (Courses of other degree programs)	Module(s) (StuPo 2015)	Specialization Option: EES I or II, Electives (Courses of other degree programs)
Open to Students	Year(s) 3, 4	Max. Enrollment	left-over places
Prerequisites	Successful completion of the course Energy (Technologies) at UCF		
Instructor(s)	Prof. Dr. Stefan Glunz		
Format, Dates, Times and Rooms	21.10-14.2 Lecture Tue, 16-18h, G.-Köhler-Allee 101, Seminar 00-010/014 Thu, 14-16h, G.-Köhler-Allee 101, Seminar 00-010/014 For changes, see HISinOne		
Course Description	<ul style="list-style-type: none"> • Solar Energy - Theoretical and Technical Energy Potential (black body radiation, Carnot cycle, maximum efficiencies, • Solar Energy Technologies - Tapping the sun's energy (overview of conversion technologies, system boundaries, seasonal fluctuation, ...) • Photovoltaics - Physics of Solar Cells (introduction to semiconductors, Fermi levels, IV curves, conversion efficiency, quantum efficiency ...) • Photovoltaics - Technology Review (short introduction to the structure and technology of crystalline silicon solar cells) • Solar Thermal - Physics of Solar Collectors (basics of thermodynamics, fluid dynamics, absorption, emission, power output and other performance criteria) • Solar Thermal - Technology Review (from low temperature applications up to power plants - examples) • Heat pumps - Thermodynamics, electrical and thermal driven heat pumps and chillers, main components (compressor, evaporator, condenser etc.), system configurations (layout, sources, storages, control strategies etc.) • Heat pumps: field tests and best case examples - Heat pumps and smart grid interaction, Heat pumps and PV, Heat pumps + solar thermal, storage integration) • The lecture will be accompanied by a weekly exercise to deepen the understanding of the lecture's content and to discuss further details. 		
Recommended Reading	See HISinOne		
Specific Remarks	See specific remarks of the course Energy Storage on page 56.		

5.3 Study Area: Wissenschaft, Technik, Gesellschaft

Course Registration: Students from all programs in their second year (or above) can register for the following courses. The Registration Period 3 will be from 28. September to 20 October.

Digitale Überwachungs- und Kontrolltechnologien			
Course Number	00LE62S-LAS-IN0016	Teaching Period	semester
Study Area(s)	Electives	Credit Points	6
Module(s) (StuPo 2012)	Electives	Module(s) (StuPo 2015)	Electives
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Jens Hälterlein (jens.haelterlein@soziologie.uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Mon, 10-12h, KG 1023		
Course Description	<p>Von der biometrischen Gesichtserkennung über die Verhaltensprognose bis zur Berechnung individueller Risk-Scores – der Einsatz von digitalen Überwachungs- und Kontrolltechnologien durch staatliche oder privatwirtschaftliche Akteure ist mittlerweile ebenso vielfältig wie omnipräsent. Gleichzeitig üben immer mehr Menschen durch digitales Self-Tracking ("Quantified Self") Kontrolle über sich aus oder generieren in sozialen Medien sowie durch ihr Surfverhalten und die Nutzung mobiler Endgeräte genau die Daten, die Unternehmen und Behörden für ihre Überwachungs- und Kontrollinstrumente benötigen.</p> <p>Es ist das Ziel des Seminars, sowohl die Funktion und gesellschaftliche Bedeutung einzelner Technologien als auch das Zusammenspiel unterschiedlicher Technologien und Akteure zu beleuchten. Dabei sollen technische, sozialwissenschaftliche und normativ-ethische Aspekte gleichermaßen berücksichtigt werden.</p> <p>Dazu werden zum einen einschlägige Texte aus den Science and Technology Studies, der Soziologie, den Critical Data Studies sowie den Surveillance Studies gelesen und gemeinsam besprochen. Zum anderen sollen die dadurch erlangten Kenntnisse umgehend auf die Analyse und Diskussion ausgewählter politischer bzw. gesellschaftlicher Kontroversen angewendet werden. Im Laufe des Semesters können kleine Forschungsprojekte entwickelt und durchgeführt werden, in denen eigene Interessen und Fragen zur Thematik im Zentrum stehen.</p>		
Examination Dates	Final conference (PL) 1. February 2020		

Digitalisierung mitgestalten: Teilhabe als Basis für gerechte(re) Aushandlungsprozesse?			
Course Number	00LE62S-LAS-IN0014	Teaching Period	Semester
Study Area(s)	Electives	Credit Points	6
Module(s) (StuPo 2012)	Electives	Module(s) (StuPo 2015)	Electives
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Marion Mangelsdorf (gender@uni-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Fri, 25.10, 16-18h, Fri, 08.11, 06.12, 13.12, 17.01, 10-14h Fr 31.01, 10-14h Seminarraum Zentrum für Anthropologie und Gender Studies (ZAG), Belfortstr. 20		
Course Description	<p>Das Seminar befasst sich mit der Digitalisierung als einem Gestaltungsprozess, an dem sich Menschen verschiedener Interessen und Gruppierungen aktiv einbringen können. Gesellschaftliche Teilhabe stellt ein basales Versprechen dar, das mit der Digitalisierung einhergeht. Es werden dadurch Instrumentarien bereitgestellt, die direkt auf Partizipation zielen. In dem Seminar fragen wir danach, welche Formen der Teilhabe und Aushandlungsprozesse – etwa in Form von Bewertungen, Likes, Kommentaren, Rankings, Erfahrungsberichten oder individualisierten Vernetzungsmöglichkeiten – durch digitale Medien gefördert werden und an welche Grenzen diese Möglichkeiten stoßen. Grenzen, die sich nicht zuletzt dadurch bestimmen lassen, dass damit einhergehend Formen der Kontrolle, Normierung und Vermarktung verstärkt vorangetrieben werden können. Dies zumal Aktivitäten im Netz Datenschatten oder »digitale Fußabdrücke« etwa durch den Aufbau von Algorithmen produzieren. Damit steht zur Diskussion, inwiefern Digitalisierung als Instrument zu verstehen ist, über das Pluralität (neu) ausgehandelt und gerechte(re) Strukturen etabliert werden können, jedoch solcherart Prozesse durch die digitalen Technologien auf der Matrix von 0-und-1-Lösungen gleichermaßen wieder in Frage gestellt werden. Utopien scheinen hier Hand in Hand mit Dystopie zu geben. Anhand konkreter Felder soll diesen Fragen mithilfe eines Ansatzes des forschenden Lehren und Lernens nachgegangen werden.</p> <p>Teilhabe und Methoden des affirmativen Feedbacks sind didaktische Mittel der Auseinandersetzung innerhalb der Lehrveranstaltung. Ebenso wie kreativ-experimentelles Arbeiten unterstützt wird. Hierfür gebe ich Einblick in verschiedene »E-Tools«, mittels derer die Seminarpräsentationen und Abschlussreflexionen aufbereitet werden können: Prezi als Präsentationssoftware; Wordpress, um Blogbeiträge zu verfassen und Pageflow, um sich im »digitalen Storytelling« zu üben. Außerdem werden digitale Lerneinheiten zur Verfügung gestellt, die derzeit über das BMBF-Verbundprojekt Gendering MINT digital entwickelt werden.</p> <p>Ziel des Seminars ist es, sich mittels eines eigenen Studienforschungsprojekts mit Teilhabeparadoxien im digitalen Raum auseinanderzusetzen. Zur Auswahl stehen folgende drei Studienforschungsfelder, die näher beleuchtet werden sollen:</p> <ul style="list-style-type: none"> • Studienforschungsfeld 1 Körper- und Geschlechter-Performanzen • Studienforschungsfeld 2 Open Science und die unbedingte Universität • Studienforschungsfeld 3 Gaia – eine alternative Metaphorologie der Erde? <p>Das Seminar ist aufgeteilt in:</p> <p>1. Analog-Raum</p> <p>Block I: Geschichte des Cyberspace und Einführung in die Forschungsfelder</p> <p>Block II, Block III: Vorstellung und Entwicklung der Forschungsbereiche</p>		

	<p>Block IV, Block V: Vorbereitung der Abschlusspräsentation Gemeinsame Abschlusspräsentation</p> <p>2. Digital-Raum Online werden verschiedene Lehreinheiten, Videos und Materialien unter GenderingMINT digital zur Verfügung gestellt, die zum Austausch im Analog-Raum und für die Freiarbeit Anregung bieten.</p> <p>3. Frei-Raum Dieser bietet Raum zur Freiarbeit in einer der beschriebenen Felder. Es können Interviews geführt, ein eigener Block aufgesetzt, performativ-kreativ gearbeitet werden, ob mit Fotos, Videos oder wie auch immer. Einzel- ebenso wie Gruppenarbeit ist möglich!</p>
Remarks	Weitere Informationen siehe: https://genderingmint.pageflow.io/seminar-digitalisierung-gestalten
Examination Dates	Final conference (PL) 1. February 2020

Gerechtigkeitsfragen in der Gestaltung der Interaktion von Menschen und künstlicher Intelligenz			
Course Number	00LE62S-LAS-IN0015	Teaching Period	semester
Study Area(s)	Electives	Credit Points	6
Module(s) (StuPo 2012)	Electives	Module(s) (StuPo 2015)	Electives
Open to Students	Year(s) 2,3,4	Max. Enrollment	20
Prerequisites	none		
Instructor(s)	Dr. Philipp Kellmeyer (philipp.kellmeyer@uniklinik-freiburg.de)		
Format, Dates, Times and Rooms	21.10-14.2 Seminar Thu, 10-12h, Albertstr. 19, Seminarraum		
Course Description	<p>Die meisten Menschen interagieren bereits heute im Alltag mit Künstlicher Intelligenz (KI), beispielsweise in digitalen Sprachassistenten, Übersetzungssoftware oder Navigationssystemen. Die technischen Fortschritte in der KI ermöglichen darüber hinaus neue medizinische Anwendungen, autonome Fahrzeuge, aber auch neue Waffensysteme. In dem interdisziplinären Seminar widmen wir uns gemeinsam der Frage, wie bereits auf der Ebene des Designs ein gerechter Zugang und eine verantwortliche Entwicklung von KI-Systemen gestaltet werden kann. Im Zentrum steht dabei die Ebene der Mensch-KI-Interaktion und inwiefern die Beteiligung von Nutzerinnen und Nutzern und eine Berücksichtigung von Werten und ethischen Prinzipien gewährleistet werden. Dabei untersuchen wir gemeinsam grundlegende Konzepte der Mensch-KI-Interaktion, analysieren Medieninhalte zum Thema und verwenden kreative und praktische Methoden aus der Design-Forschung.</p>		
Examination Dates	Final conference (PL) 1. February 2020		

Course Index

Altruism and Cooperative Behaviour 29
An Intellectual History of Feminist Thought 35
Anatomy and Functions of the Brain 23
Art in the Anthropocene 56
Behavioural Economics 21
Biodiversity Loss and Entomology 39
Climate Change and Biodiversity 25
Comparative Public Policy 15
Culture as a Topic of Academic Inquiry 13
Cultures of Everyday Violence 36
Digitale Überwachungs- und Kontrolltechnologien 64
Digitalisierung mitgestalten 65
Diplomatic Practice 14
Energy Storage 59
English for Academic Purposes 26
Environment Risks and Us 45
Environmental Chemistry 20
Fundamentals of Resilience 60
Genetic Research in Vulnerable Populations 46
Genetics and Molecular Biology 16
Geographic Information Systems 48
Gerechtigkeitsfragen in der Interaktion von Menschen und künstlicher Intelligenz 66
Grid Integration 61
Human Physiology 24
Introduction to Tissue Engineering 17
Journalism: Natural Science, Social Science, and the Humanities 49
Kant 37
Knowledge, Truth, and Inference 27
Law and Policies of the European Union 40
Livable Cities in the Global North and South 50
Material Life Cycles 62
Maths and Physics 52
Methods Overview Seminar 53
Moot Court Meetings 41
Nature and Culture 32
Oppression and Equality from an Intersectional Perspective 11
Political Theory 42
Pre-Course Maths and Physics 9
Principles of Responsible Leadership 28
Public International Law 43
Queer Pop 2.0 57
Research and Presentation 10
Research Design 30
Research Design across Disciplines 33
Resources and Sustainability 18
Robot Design 55
Science in Context 34
Silence is Golden!? 12
Solar Energy 63
Utopian and Dystopian Writings 38
Written Expression 19

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Publication Date: September 2019