



Faculty of Humanities and Social Sciences

INFORMATION

Course Offering



LUCERNE MASTER IN COMPUTATIONAL SOCIAL SCIENCES (LUMACSS)
COURSE OFFERING – FALL SEMESTER 2019

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Programme Director and Co-Initiators

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Administration and Programme Coordinator

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LUMACSS Programme Coordinator	Samuel Huber samuel.huber@unilu.ch	3.A53 (Mo/We), 3.B10 (Fr)

Semester Dates

Fall semester 2019

Courses take place from Monday, September 16th to Friday, December 20th 2019

There are no courses taking place on the following dates:

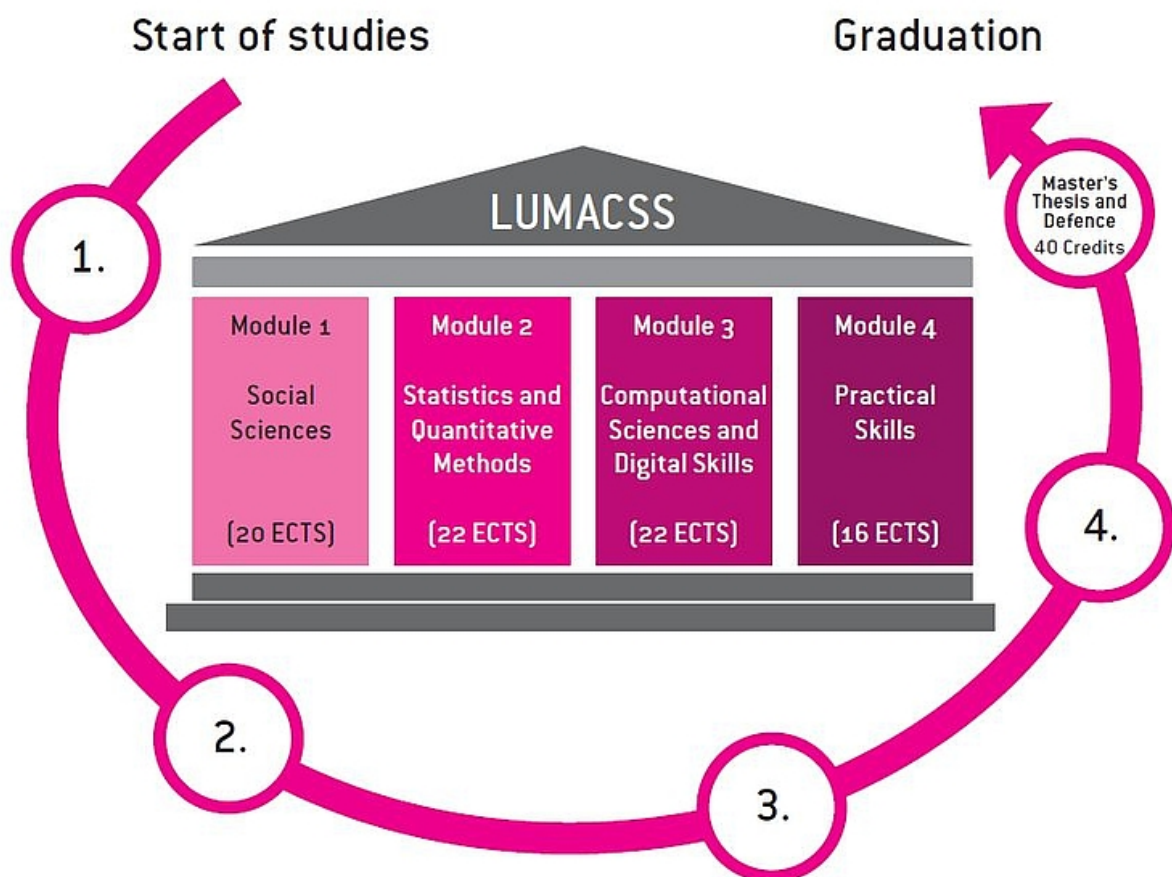
Wednesday, October 2 nd	St. Leodegar
Friday, November 1 st	All Saints' Day
Thursday, November 7 th	Dies Academicus, no lectures in the morning

Spring semester 2020

Courses take place from Monday, February 17th to Friday, May 29th 2020

Study Programme

The Lucerne Master in Computational Social Sciences (LUMACSS) is an interdisciplinary programme that equips graduates with the knowledge and skills needed to tackle the main social challenges of the digital age. LUMACSS has been specially designed for two kinds of students: social science graduates seeking to strengthen their data analytics and digital computation skills; and computational sciences graduates eager to learn how to best apply their computation skills to social sciences data and research questions. LUMACSS provides a unique opportunity to combine the social sciences and the computational sciences. The programme offers in-depth teaching and research on digitization and its manifold effects on modern polities, societies and economies.



The four LUMACSS modules combine various disciplines such as economics, political science, sociology, law, history and the computational sciences. The broad-based programme also develops statistical and computational methods and thus builds the key skills for the future job market. Coursework comprises a total of 120 ECTS and includes a final master's thesis and its defence.

Musterstudienplan MA Studiengang

Lucerne Master in Computational Social Sciences (LUMACSS), Studienbeginn ab HS 2019



Module	Studienanforderung	Beschreibung	Credits 120	Cred. Tot.	☒
Social Sciences	Vorlesungen	Drei Vorlesungen (à 2 Cr) oder zwei Kolloquialvorlesungen (à 3 Cr)	6		
	Masterseminar	-	4		
	Masterseminar	-	4		
	Schriftliche Masterseminararbeit	-	6	20	
Statistics and Quantitative Methods	Masterseminar	-	4		
	Masterseminar	-	4		
	Schriftliche Masterseminararbeit	-	6		
	Weitere Studienleistungen	-	8	22	
Computational Sciences and Digital Skills	Weitere Studienleistungen	-	20		
	Abschlusskolloquium	-	2	22	
Practical Skills	Variante 1: Freie Studienleistungen* inklusive Sozialkompetenz (2-6 Cr)	Freie Studienleistungen	16		
	Variante 2: Capstone-Projekt (10 Cr), freie Studienleistungen* inklusive Sozialkompetenz (2-6 Cr)	Absolvierung eines selbst organisierten Projekts	16		
	Variante 3: Praktikum (10 Cr), freie Studienleistungen* inklusive Sozialkompetenz (2-6 Cr)	Absolvierung eines selbst organisierten Praktikums von min. 8 Wochen Vollzeit	16	16	
Masterverfahren					
	MA-Arbeit	Masterarbeit (30 Cr) mit mündlicher Verteidigung (10 Cr)	40	40	

* aus dem Masterlehrangebot der Kultur- und Sozialwissenschaftlichen Fakultät (KSF)

Der Musterstudienplan entspricht der Wegleitung zur StuPo 2016 mit Revision vom 1. August 2019 - Masterstufe. Download unter: www.unilu.ch/ksf-reglemente

Course Offering in Fall 2019

For an up to date and more detailed **electronic version** of our course offering visit:
https://vv.unilu.ch/stg/ma_lumacss/sem=HS19

Please note that German titles of courses indicate that courses are taught in German.

Module Social Sciences

Format	Lecturer and Title	Dates
SOV	Burri: Introduction to Public International Law	block course
VL	Peukert: Economics of Digitization	Th, 12.15-16.00
VL	Burri: International Intellectual Property Law	We, 12.15-14.00
VL	Gruber: Critical Legal Tech: Scientific Perspectives on Legal Technology and Digitalization	Tu, 10.15-12.00
VL	Burri: International Law of Contemporary Media	Tu, 12.15-14.00
KVL	Blatter: Einführung in die Demokratietheorien	Mo, 12.15-14.00
KVL	Schaffer: Einführung in die Internationalen Beziehungen	Mi, 10.15-12.00
KVL	Trechsel: Political Behaviour and Communication	Tu, 10.15-12.00
MSE	Oglesby: Researching Lifestyles, Consumption, and Beliefs in the Digital Era	Th, 10.15-12.00
MSE	Lüchinger: Advanced Public Economics – Masterseminar	Fridays
MSE	Horvath: Social Processes and Social Structures: Current Debates and Dynamics	Th, 14.15-16.00
MSE	Mützel: Relationale Soziologie: Theoretische Ansätze und empirische Studien	Mo, 14.15-16.00
MSE	Mützel: Soziologie der Algorithmen	Tu, 12.15-14.00

Module Statistics and Quantitative Methods

Format	Lecturer and Title	Dates
MSE	Boes: Quantitative Methods II	We, 12.30-16.00
MSE	Blasius: Korrespondenzanalyse	Fr/Sa
MSE	De Angelis/Trechsel: Research Design in Quantitative Perspective	Mo, 14.15-16.00
MSE	Boes; Roser; Liu: Statistics and Epidemiology	We, 14.15-16.00
HS	Schwegler: Sozialwissenschaftliche Datenanalyse mit R, Gr. 1	Th, 10.15-12.00
HS	Schwegler: Sozialwissenschaftliche Datenanalyse mit R, Gr. 2	Th, 10.15-12.00

VL	Hofstetter; Schmid: Data Analytics and Decision Support	Fr, 10.15-14.00
VL	Fink: Kriminalstatistik und Kriminalpolitik	Mo, 10.15-12.00
VL	Schmid: Causal Analysis	Th, 10.15-12.00
VL	Schmid: Angewandte Statistik und Ökonometrie	Fr, 14.15-16.00
KVL	Diaz-Bone: Grundlagen der multivariaten Statistik	Th, 14.15-18.00
UEB	Hüsler: Übung Gruppe 1 Angewandte Statistik und Ökonometrie	Fr, 10.15-12.00
UEB	Hüsler: Übung Gruppe 2 Angewandte Statistik und Ökonometrie	Fr, 12.15-14.00
UEB	Heim: Tutorial Causal Analysis	We, 16.15-18.00

Please note that in addition to the courses listed above, **additional R-courses taught at Hochschule Luzern** can be accredited to this module. See **page 8** for more information.

Module Computational Sciences and Digital Skills

Format	Lecturer and Title	Dates
VL	Meierer/Bachmann: Python – A Non-Technical Introduction	Fr/Sa
VL	Meierer/Bachmann: Machine Learning for Mere Mortals: It Ain't Magic	Fr/Sa
MSE	Puschmann: Methoden computergestützter Textanalyse	Fr/Sa

Please note that in addition to the courses listed above, **additional courses taught at Hochschule Luzern** can be accredited to this module. See **page 8** for more information.

Module Practical Skills

In the module on Practical Skills, students have access to the complete offering of the Faculty of Humanities and Social Sciences.

However, the following courses are especially recommendable for LUMACSS-students:

Format	Lecturer and Title	Dates
LKK	Huber: Digital History in the Making	Tu, 12.00-14.00
HS	Berger: Die Philosophie der Digitalisierung	We, 14.15-16.00
HS	Limacher: Online Marketing und #WissKomm	Fr, 14.15-16.00
HS	Drews: Democracy in the Digital Age: Political Engagement, Deliberation, and Election Campaigns	Mo/Fr/Sa
HS	Thiel: Politische Theorie in der digitalen Gesellschaft	Fr, 12.15-16.00

Legend

HS: Hauptseminar; KOL: Kolloquium; KVL: Kolloquialvorlesung; LKK: Lektürekurs; MSE: Masterseminar; SOV: Sonderveranstaltung; UEB: Übung; VL: Vorlesung

R-Courses taught at Hochschule Luzern

In addition to the courses listed above, the following **R-courses taught at Hochschule Luzern** can be accredited to the Modules **Statistics and Quantitative Methods**, **Computational Sciences and Digital Skills** and/or **Practical Skills**:

1. De Angelis: Introduction to R for Data Analysis
https://www.campus-luzern.ch/files/2019/02/HS19_Introduction-to-R-for-Data-Analysis.pdf
2. De Angelis: Multilevel/Hierarchical Modeling in R
https://www.campus-luzern.ch/files/2019/02/HS19_Multilevel-hierarchical-modeling-in-R.pdf
3. De Angelis: Data Visualization in R
https://www.campus-luzern.ch/files/2019/02/HS19_Data-Visualization-in-R.pdf
4. De Angelis: Introduction to Text Analysis in R
https://www.campus-luzern.ch/files/2019/02/HS19_Intro-to-Text-Analysis-in-R.pdf

Students interested in attending these courses should get in touch with our **programme coordinator**: samuel.huber@unilu.ch