



Faculty of Humanities and Social Sciences

INFORMATION

Course Offering



LUCERNE MASTER IN COMPUTATIONAL SOCIAL SCIENCES (LUMACSS)
COURSE OFFERING – FALL SEMESTER 2020

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Programme Director and Co-Initiators

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Administration and Programme Coordinator

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Semester Dates

Fall semester 2020

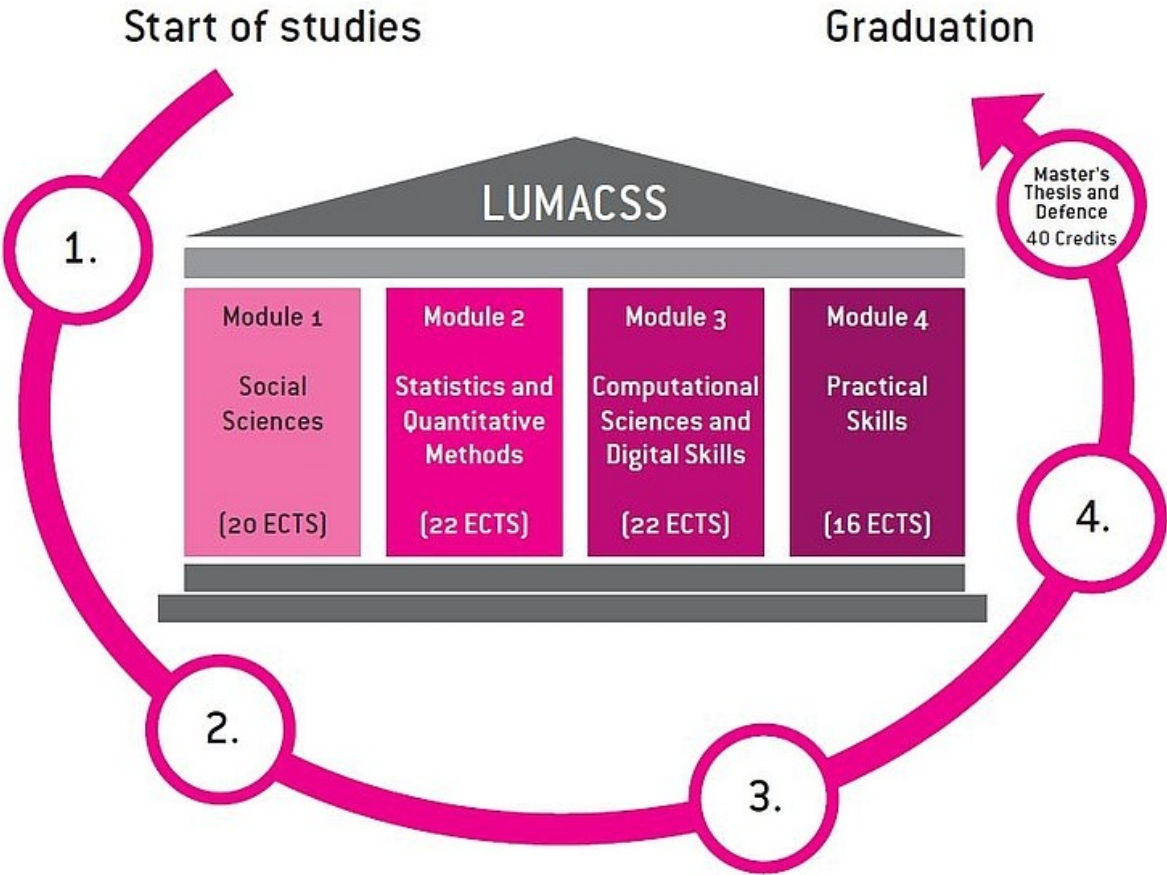
Courses take place from Monday, September 14th to Friday, December 18th 2020

There are no courses taking place on the following dates:

Friday, October 2 nd	St. Leodegar
Thursday, November 5 th	Dies Academicus
Tuesday, December 8 th	Immaculate Conception

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.	<input checked="" type="checkbox"/>
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 Masterlehreangebot 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 2020

For an up to date and more detailed **electronic version** of our course offering visit:
https://vv.unilu.ch/stg/ma_lumacss/sem=HS20

Please note that **German titles** of courses indicate that courses are taught in German.
 Please note that there are **different procedures for registration** at the different faculties and for courses taught via Campus Luzern:

Faculty of Humanities and Social Sciences: Registration in the first two weeks of the semester via Uniportal

Faculty of Law: Registration mid-semester, [click here for more information](#)

Faculty of Economics: Registration mid-semester, [click here for more information](#)

Campus Luzern: Registration via e-mail: graduate.resources@campus-luzern.ch

Module Social Sciences

Format	Lecturer and Title	Dates
VL	Burri: International Intellectual Property Law	We, 12.15-14.00
VL	Burri: International Law of Contemporary Media	Tue, 12.15-14.00
VL	Gruber: Critical Legal Tech: Wissenschaftliche Perspektiven auf Technologie und Digitalisierung im Recht	Mo, 10.15-12.00
KVL	Schaffer: Einführung in die Internationalen Beziehungen	We, 10.15-12.00
KVL	Schulz: Einführung in die Demokratietheorien	Mo, 16.15-18.00
KVL	Trechsel: Political Behaviour and Communication	Tue, 10.15-12.00
MSE	Oglesby: Researching lifestyles, consumption, and beliefs in the digital era	Th, 10.15-12.00
MSE	Mützel: Relationale Soziologie: Theoretische Ansätze und empirische Studien	Mo, 14.15-16.00
MSE	Horvath: Social processes and social structures: current debates and dynamics	Th, 14.15-16.00
MSE	Clemm von Hohenberg: Experiments in Political Behavior and Public Opinion	See electronic catalogue
MSE	Abend: Immoral technology and data: ethical and sociological perspectives	We, 10.15-12.00

Module Statistics and Quantitative Methods

Format	Lecturer and Title	Dates
MSE	De Angelis/Trechsel: Research design in quantitative perspective	Mo, 14.15-16.00
MSE	Clemm von Hohenberg: Experiments in Political Behavior and Public Opinion	See electronic catalogue
MSE	Rieder: Digitale Methoden zur Analyse Sozialer Medien	See electronic catalogue
KVL	Diaz-Bone: Grundlagen der multivariaten Statistik	Th, 14.15-18.00
HS	Horvath: Sozialwissenschaftliche Datenanalyse mit R, Gr. 1	Th, 10.15-12.00

HS	Schwegler: Sozialwissenschaftliche Datenanalyse mit R, Gr. 2	Th, 10.15-12.00
MSE	Boes/Roser/Liu: Statistics and Epidemiology	We, 14.15-16.00
VL	Fink: Kriminalstatistik und Kriminalpolitik	Mo, 10.15-12.00
VL	Hofstetter/Schmid: Data Analytics and Decision Support	See electronic catalogue
VL	Schmid: Causal Analysis	See electronic catalogue
VL	Heim: Data Handling	See electronic catalogue
VL	Schmid: Angewandte Statistik und Ökonometrie	Fr, 14.15-16.00
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	Stiffler: Tutorial Causal Analysis	We, 14.15-16.00
WOS	Bäurle: Forecasting in Economics	We, 16.15-18.00

Module Computational Sciences and Digital Skills

Format	Lecturer and Title	Dates
VL	Hofstetter/Pouly: Machine Learning im Marketing	See electronic catalogue
VL	Meierer: Machine learning for mere mortals: It ain't magic	See electronic catalogue
VL	Meierer/Bachmann: Python – A non-technical introduction	See electronic catalogue
VL	Heim: Data Handling	See electronic catalogue
VL	Mannino: Supervised Machine Learning	See electronic catalogue
VL	Cilurzo/Habicht: Data Science Toolkits and Architectures	Th, 16.15-19.00
WOS	Bäurle: Forecasting in Economics	We, 16.15-18.00
WOS	Wälti: Introduction to Computer Science and Programming	Mo, 09.00-12.00
MSE	Rieder: Digitale Methoden zur Analyse Sozialer Medien	See electronic catalogue
MSE	Puschmann: Methoden computergestützter Textanalyse	See electronic catalogue
WOS	De Angelis: The R Week: A complete introduction to R for data science	Infos on Campus Luzern website
WOS	De Angelis: Data Visualization in R	Infos on Campus Luzern website
WOS	De Angelis: Multilevel / Hierarchical Modeling in R	Infos on Campus Luzern website
WOS	De Angelis: Introduction to Text Analytics Using R	Infos on Campus Luzern website
WOS	De Angelis: Automated Web Data Collection Using R	Infos on Campus Luzern website

WOS	Curini: Big Data Analytics	Infos on Campus Luzern website
WOS	Ballietti: App Development	Infos on Campus Luzern website
WOS	Hofstetter/Pouly: Applied Artificial Intelligence and Machine Learning in Business and Economics	Infos on Campus Luzern website
KOL	Trechsel: Kolloquium BA- und MA-Abschlussarbeiten	Tue, 18.15-20.00
KOL	Mützel: Kolloquium Medien und Netzwerke (laufende Abschlussarbeiten)	Mo, 16.15-18.00

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 recommended for LUMACSS-students:

Format	Lecturer and Title	Dates
HS	Speich: Zahlenzauber. Geschichte der Informationsmaschinen und der numerischen Kommunikation	Mi, 10.15-12.00

Legend

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