

**UNIVERSITY OF
LUCERNE**

**FACULTY OF HUMANITIES AND
SOCIAL SCIENCES**

COURSE OFFERING

**LUCERNE MASTER IN COMPUTATIONAL
SOCIAL SCIENCES (LUMACSS)
SPRING SEMESTER 2022**

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Administration and Programme Coordinator

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Semester Dates

Spring semester 2022

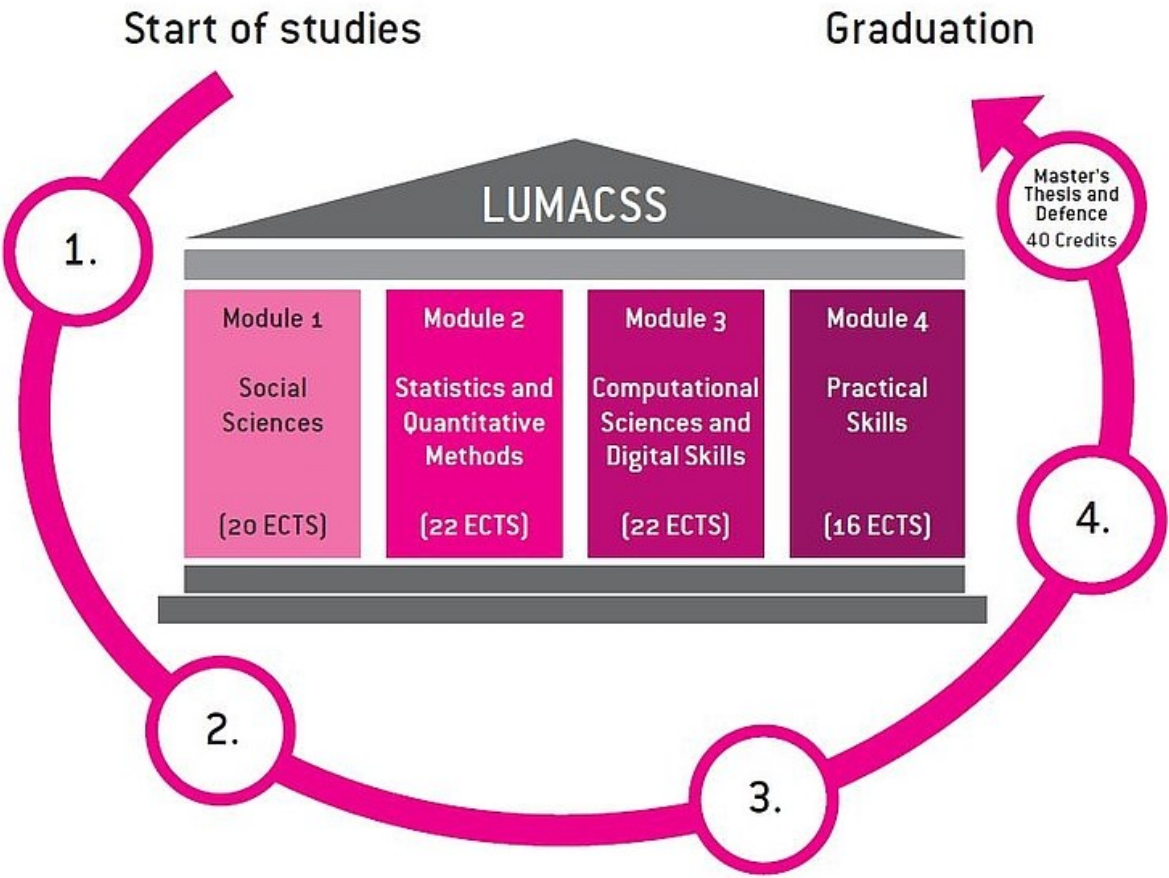
Courses take place from Monday, February 21st to Friday, June 3rd 2022

There are no courses taking place on the following dates:

Thursday, February 24 th	Carnival
Monday, February 28 th	Carnival
Friday, April 15 th to Sunday, April 24 th	Easter break
Thursday, May 26 th	Ascension day

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.

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 Spring 2022

For an up to date and more detailed **electronic version** of our course offering visit:
https://portal.unilu.ch/stg/ma_lumacss/sem=FS22

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](#)

Department of Health Sciences and Medicine: Registration mid-semester, [click here for more information](#)

Digital Skills: Registration via registration form, [click here for more information](#)

Module Social Sciences

Format	Lecturer and Title	Dates
VL	Burri: Internet Law	We, 10.15-12.00
VL	Dzamko-Locher: Datenschutzrecht	We, 08.15-10.00
VL	Meyer: Blockchain und Smart Contracts	Thu, 14.15-16.00
VL	Gruber: Technikrecht	Tue, 10.15-12.00
VL	Graf: Cyberstrafrecht	Fr, 08.15-10.00
RGV	Speich Chassé/Mützel: Ringvorlesung Digitaler Wandel. Interdisziplinäre Sichtweisen auf Herausforderungen und Chancen der Digitalisierung	Fortnightly We, 17.15-19.00
KVL	Trechsel: Einführung in die Vergleichende Politikwissenschaft	Tue, 12.15-14.00
KVL	Schaffer: Europäische Integration	We, 10.15-12.00
MSE	Jaeger: Global Political Theory	block course
MSE	Mayer: Critical Data Studies	block course
MSE	Mützel: Datenkapitalismus und Entwicklungen im Marketing	Tue, 14.15-16.00
MSE	Mützel: Geld und Bezahlen weltweit in Zeiten der Digitalisierung: Daten und Beziehungspflege	Mo, 14.15-16.00
VL	Moser/Savioz: Einführung in Kryptowährungen, Stablecoins und digitale Zentralbankwährungen	Mo, 12.15-14.00

Module Statistics and Quantitative Methods

Format	Lecturer and Title	Dates
MSE	Târlea: Research Design for Puzzles in Political Economy	Block course
MSE	Wurpts: Methoden der sozialen Netzwerkanalyse	Mo, 10.15-12.00
MSE	Boes/Bardy/Dawson-Townsend/Quiroga Gutierrez: Quantitative Methods	Tue, 14.15-16.00 We, 08.30-10.00

VL	Schmid: Einführung in die Ökonometrie	Fr, 14.15-16.00
VL	Schmid: Statistik	Thu, 14.15-16.00
VL	Strittmatter: Causal Machine Learning	Block course
VL	Matter: Big Data Analytics	Thu, 14.15-18.00
UEB	Hüsler: Einführung in die Ökonometrie	Fr, 12.15-14.00

Module Computational Sciences and Digital Skills

Format	Lecturer and Title	Dates
VL	Cilurzo/Habicht: Unsupervised Machine Learning	Fortnightly We, 16.15-20.00
VL	Cabane: Data Visualization	Thu, 14.15-18.00
VL	Giangreco: Data Modeling and Database Systems	Fr, 09.15-13.00
VL	Strittmatter: Causal Machine Learning	Block course
VL	Matter: Big Data Analytics	Thu, 14.15-18.00
WOS	Ferracane: Researching and Assessing Digital Trade Restrictions	Infos on Digital Skills
WOS	Attalides: Creating Web Applications in R using Shiny	Infos on Digital Skills
WOS	Di Cocco: Populism in Time of Computational Social Sciences	Infos on Digital Skills
WOS	Dolgoplov: Computational Game Theory	Infos on Digital Skills
WOS	Umit: Working with Twitter Data in R	Infos on Digital Skills
WOS	Umit: Web-Scraping with R	Infos on Digital Skills
WOS	Baliotti: App Development	Infos on Digital Skills
WOS	Curini: Big Data Analytics	Infos on Digital Skills
WOS	Attalides: Introduction to Machine Learning in R	Infos on Digital Skills
WOS	Bright: Python	Infos on Digital Skills
KOL	Blatter: Kolloquium BA- und MA-Abschlussarbeiten	We, 17.15-20.00
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
RGV	Speich Chassé/Mützel: Ringvorlesung Digitaler Wandel. Interdisziplinäre Sichtweisen auf Herausforderungen und Chancen der Digitalisierung	Fortnightly We, 17.15-19.00

Legend

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