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Programme Director and Co-Initiators

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Administration and Programme Coordinator

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LUMACSS Programme Coordinator	Nadia Bühler, MA nadia.buehler@unilu.ch	3.A53 (Mo-Thu)

Semester Dates

Spring semester 2023

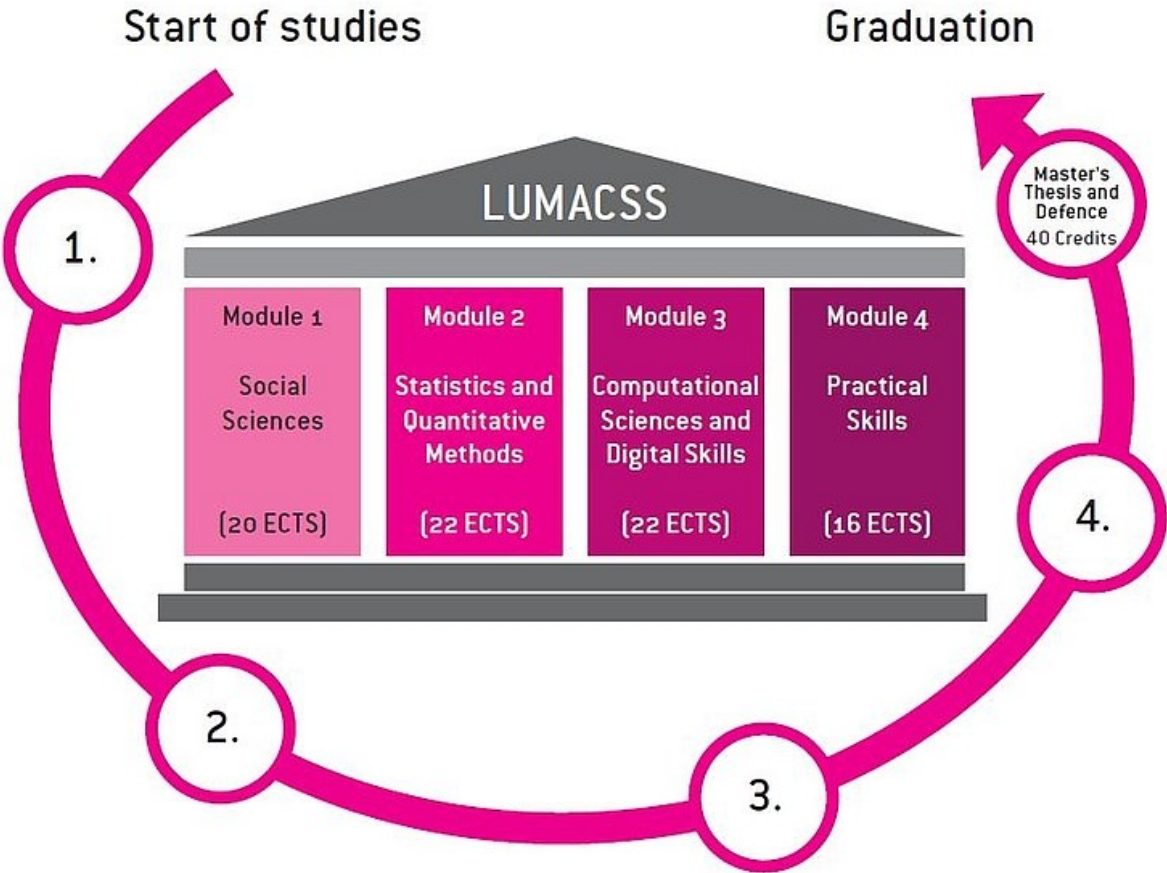
Courses take place from Tuesday, February 21st to Friday, June 2nd 2023

There are no courses taking place on the following dates:

Friday, April 7 th to Sunday, April 16 th	Easter break
Thursday, May 18 th	Ascension day
Monday, May 29 th	Whit Monday

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 2022

Modul	Studienanforderung	Beschreibung	Credits 120	<input checked="" type="checkbox"/>
Social Sciences	Vorlesungen und/oder Kolloquialvorlesungen	-	6	
	Masterseminar	-	4	
	Masterseminar	-	4	
	schriftliche Masterseminararbeit	-	6	
Statistics and Quantitative Methods	Masterseminar	-	4	
	Masterseminar	-	4	
	Methodenseminar	Research Design and Methods in Quantitative Research I	4	
	Hauptseminar	Introduction to Statistics for the Social Sciences	4	
	schriftliche Masterseminararbeit	-	6	
Computational Sciences and Digital Skills	Masterseminar	Introduction to R for Data Science & Computational Social Science	4	
	Masterseminar	Data Mining in R	4	
	Masterseminar	Introduction to Python	4	
	weitere Studienleistungen	-	8	
	Abschlusskolloquium	-	2	
Practical Skills	Variante 1: freie Studienleistungen ¹ (16 Cr)	freie Studienleistungen	16	
	Variante 2: Capstone-Projekt (10 Cr), freie Studienleistungen ¹ (6 Cr)	Absolvierung eines selbst organisierten Projekts		
	Variante 3: Praktikum (10 Cr), freie Studienleistungen ¹ (6 Cr)	Absolvierung eines selbst organisierten Praktikums von min. 8 Wochen Vollzeit		
Masterverfahren				
	MA-Arbeit	Masterarbeit (30 Cr) mit mündlicher Verteidigung (10 Cr)	40	
<p>Der Musterstudienplan entspricht der Wegleitung zur StuPo 2016 mit Revision (Stand 1. August 2022) - Masterstufe. Download unter: www.unilu.ch/fakultaeten/ksf-reglemente/</p>				

¹ aus dem Masterlehrangebot der Kultur- und Sozialwissenschaftlichen Fakultät (KSF). Bis zu 6 Credits können im freiwilligen Bereich universitäres Engagement belegt werden.

Course Offering in Spring 2023

For an up to date and more detailed **electronic version** of our course offering visit:
https://portal.unilu.ch/stg/ma_lumacss/sem=FS23

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 Digital Skills Luzern:

Faculty of Humanities and Social Sciences: Registration two weeks before the start of the semester till the end of 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](#)

Faculty of Health Sciences and Medicine: Registration end of 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	Dzamko-Locher: Datenschutzrecht	Fr, 12.15-14.00
VL	Burri: Internet Law	We, 12.15-14.00
VL	Furrer: Vertragsgestaltung im digitalen Raum: Einblick in die Praxis	Thu, 16.15-18.00
WOS	Burri: Copyright in the Digital Age	Block course
VL	Graf: Cyberstrafrecht	Fr, 08.15-10.00
VL	Moser/Savioz: Introduction to Cryptocurrencies, Stablecoins, and Central Bank Digital Currencies	Mo, 12.15-14.00
SEM	Seele: Digital Ethics	Block course
KVL	Trechsel: Einführung in die Vergleichende Politikwissenschaft	Tue, 12.15-14.00
KVL	Freudlsperger: Die Schweiz im Kontext der europäischen Integration	We, 10.15-12.00
MSE	Jaeger: Global Political Theory	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
MSE	Bennani: Vom Mensch zur Zahl. Zur statistischen Konstruktion von Personenkategorien	Block course
MSE	Blatter/Schulz: Research Deisgns and Methods in Qualitative Studies II	We, 16.15-18.00

Module Statistics and Quantitative Methods

Format	Lecturer and Title	Dates
MSE	Wurpts: Methoden der sozialen Netzwerkanalyse	Mo, 10.15-12.00
MSE	Târlea: Research Design for Puzzles in Political Economy	Fortnightly Mo, 10.15-14.00
MSE	Attalides: Machine Learning	Block course
VLUEB	Advanced Quantitative Methods (ARM)	Mo, 10.15-12.00, Thu, 12.30-14.00

Module Computational Sciences and Digital Skills

Format	Lecturer and Title	Dates
WOS	Bäurle: Forecasting Economic Time Series	Thu, 08.15-10.00
WOS	Cabane: Data Visualization	Thu, 14.15-18.00
VL	Cilurzo/Habicht: Unsupervised Machine Learning	Fortnightly We, 16.15- 20.00
VL	Knaus: Causal Machine Learning	Block course
VL	Giangreco: Data Modeling and Database Systems	Fr, 9.15-13.00
VL	Matter: Big Data Analytics	Block course
WOS	Curini: Big Data Analytics	Infos on Digital Skills
WOS	Attalides: Shiny	Infos on Digital Skills
WOS	Attalides: Data Visualization	Infos on Digital Skills
WOS	Attalides: Introduction to web scraping and text analysis in R	Infos on Digital Skills
MSE	Attalides: Machine Learning	Block course
MSE	De Angelis: Data Mining in R	Block course
MSE	Bright: Introduction to Python	Block course
KOL	Mützel: Kolloquium Medien und Netzwerke (laufende Abschlussarbeiten)	Mo, 16.15-18.00
KOL	Blatter: Kolloquium BA- und MA-Abschlussarbeiten	Tue, 18.15-20.00

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
MSE	Jucker: Alles alter Käse? Living History, Musealisierung und Popularisierung im digitalen Zeitalter	Tue, 14.15- 16.00

MSE	Speich Chassé: Der «Digital Divide». Gleichheit und Ungleichheit in der Geschichte des virtuellen Raums	Tue, 10.15-12.00
MSE	Baierlé: KI: Autonome Fahrzeuge und Militärroboter	Mo, 16.15-18.00

Legend

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