

UNIVERSITY OF  
LUCERNE

FACULTY OF HUMANITIES AND  
SOCIAL SCIENCES



# COURSE OFFERING

LUCERNE MASTER IN COMPUTATIONAL  
SOCIAL SCIENCES (LUMACSS)  
FALL SEMESTER 2022



Programme Director and Co-Initiators .....	3
Administration and Programme Coordinator .....	3
Semester Dates .....	3
Study Programme .....	4
Course Offering in Fall 2022.....	6
Module Social Sciences .....	6
Module Statistics and Quantitative Methods .....	7
Module Computational Sciences and Digital Skills .....	7
Module Practical Skills .....	8

## Programme Director and Co-Initiators

<b>LUMACSS Programme Director</b>	<b>Prof. Dr. Alexander H. Trechsel</b> <a href="mailto:alexander.trechsel@unilu.ch">alexander.trechsel@unilu.ch</a> Professor of Political Science and Political Communication	3.B12 041 229 55 90
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	<b>PD Dr. Mira Burri</b> <a href="mailto:mira.burri@unilu.ch">mira.burri@unilu.ch</a> Senior Lecturer Faculty of Law	4.A31 041 229 53 71
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## Administration and Programme Coordinator

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## Semester Dates

### Fall semester 2022

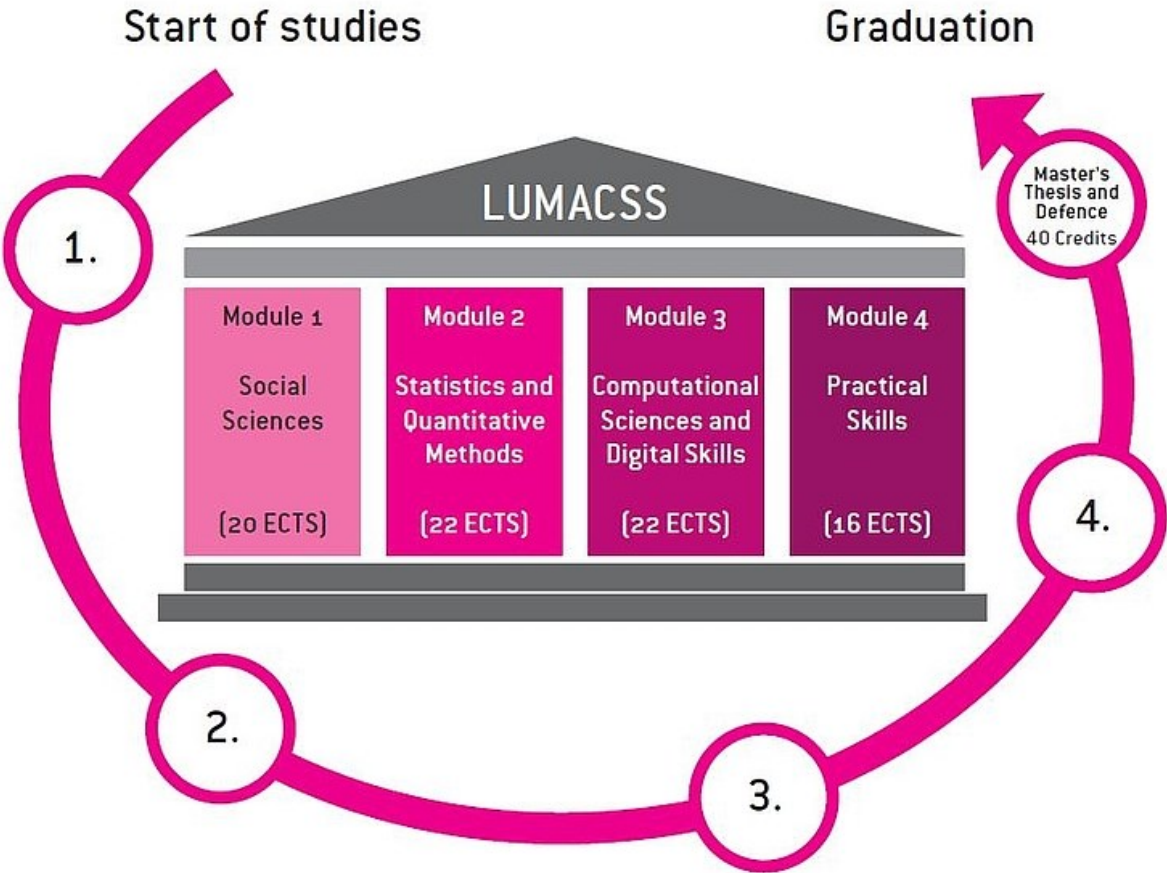
Courses take place from Monday, September 19<sup>th</sup> to Friday, December 23<sup>rd</sup> 2022

### There are no courses taking place on the following dates:

Tuesday, November 1 <sup>st</sup>	All Saints' Day
Thursday, November 3 <sup>rd</sup>	Dies Academicus, no lectures in the morning
Thursday, December 8 <sup>th</sup>	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 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 <sup>1</sup> (16 Cr)	freie Studienleistungen	16	
	Variante 2: Capstone-Projekt (10 Cr), freie Studienleistungen <sup>1</sup> (6 Cr)	Absolvierung eines selbst organisierten Projekts		
	Variante 3: Praktikum (10 Cr), freie Studienleistungen <sup>1</sup> (6 Cr)	Absolvierung eines selbst organisierten Praktikums von min. 8 Wochen Vollzeit		
<b>Masterverfahren</b>				
	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: <a href="http://www.unilu.ch/fakultaeten/ksf-reglemente/">www.unilu.ch/fakultaeten/ksf-reglemente/</a></p>				

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

## Course Offering in Fall 2022

For an up to date and more detailed **electronic version** of our course offering visit:  
[https://portal.unilu.ch/stg/ma\\_lumacss/sem=HS22](https://portal.unilu.ch/stg/ma_lumacss/sem=HS22)

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 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](#)

Department 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	Burri: International Intellectual Property Law	We, 14.15-16.00
VL	Burri: International Law of Contemporary Media	We, 10.15-12.00
VL	Karavas: Law and Society in a Global Context	Tue, 10.15-12.00
VL	Gruber: Critical Legal Tech: Wissenschaftliche Perspektiven auf Technologie und Digitalisierung im Recht	Tue, 10.15-12.00
VL	Gruber/Karavas: Recht der digitalen Medien	Thu, 10.15-12.00
VL	Furrer: Digitale Rechtsgeschäfte	Thu, 16.15-18.00
VL	Blickenstorfer: Marketing Technology	Fortnightly Tue, 14.15-18.00
VL	Puschmann: FinTech & InsurTech – Digitalization of the Financial Services Industry	Tue, 14.15-16.00
KVL	Trechsel: Political Behaviour and Communication	Tue, 12.15-14.00
KVL	Schaffer: Einführung in die Internationalen Beziehungen	We, 10.15-12.00
KVL	Blatter: Einführung in die Demokratietheorien	Tue, 14.15-16.00
KVL	Rieder: Policy-Analyse in Zeiten des Klimawandels	Mo, 14.15-16.00
MSE	Raab: Medien/r/evolution	Block course
MSE	Mützel: Relationale Soziologie: Theoretische Ansätze und empirische Studien	Tue, 16.15-18.00
MSE	Scherz: Legitimacy of International Institutions: From the EU over Human Rights bodies to the UN Security Council	Block course
MSE	Oglesby: Researching consumers' behaviour, emotions and attitudes in the digital era	Thu, 10.15-12.00
MSE	Drews: Digital Politics & Democracy	Block course
MSE	Wurpts: Netzwerkanalyse: neue Entwicklungen	Mo, 10.15-12.00
MSE	Tellidou: EU's Foreign and Security Policy in Cyberspace	Block course

MSE	Mützel: Creator Economy: zwischen Metriken, Marketing und Marken	Mo, 14.15-16.00
MSE	Arrighi: Ethnicity, Territory and Political Conflict in Europe	Fortnightly Fr, 12.15-16.00
MSE	Heumann: Rechtspopulismus und Sozialforschung (Research Design and Methods in Qualitative Research)	We, 10.15-12.00

### Module Statistics and Quantitative Methods

Format	Lecturer and Title	Dates
MSE	Ströbele: Research Design and Methods in Quantitative Research I	We, 08.15-10.00
HS	Schwegler: Sozialwissenschaftliche Datenanalyse mit R	We, 14.15-16.00
KVL	Fenzl: Introduction to Statistics for the Social Sciences	Thu, 14.15-16.00

### Module Computational Sciences and Digital Skills

Format	Lecturer and Title	Dates
VL	Meierer/Bachmann: Python – A non-technical introduction for business analytics	Block course
VL	Mannino: Supervised Machine Learning	Block course
VL	Meierer/Löwenberg: Machine Learning for mere mortals: Workflow, key models & coding	Block course
VL	Waelti: Introduction to Computer Science and Programming	Thu, 16.15-19.00
VL	Pouly: Machine Learning in Marketing	Tue, 10.15-12.00, fortnightly Tue, 08.15-10.00
VL	Cilurzo/Habicht: Data Science Toolkits and Architectures	Fortnightly Thu, 16.15-19.00
VL	Sontheim: Data Handling	Block course
VL	Scheufele: Analysing and Forecasting Economic Time Series	We, 16.15-18.00
WOS	Attalides: Information Visualizations in R	Infos on <a href="#">Digital Skills</a>
WOS	Attalides: Building packages in R and version control	Infos on <a href="#">Digital Skills</a>
WOS	Attalides: Introduction to Shiny in R	Infos on <a href="#">Digital Skills</a>
WOS	Attalides: Introduction to web scraping and text analysis in R	Infos on <a href="#">Digital Skills</a>
MSE	De Angelis: Introduction to R for Data Science & Computational Social Science	block course
KOL	Blatter: Kolloquium BA- und MA-Abschlussarbeiten (qualitative, theoretische Arbeit)	We, 18.15-20.00

KOL	Mützel: Kolloquium Medien und Netzwerke (laufende Abschlussarbeiten)	Mo, 16.15-18.00
KOL	Schaffer: Kolloquium BA- und MA-Abschlussarbeiten (quantitative Arbeit)	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
UEB	Huber: Die unsichtbaren Seiten der Geschichte, Erinnerungskultur und Digital History	Mo, 14.15-16.00
UEB	Speich Chassé: Wie der PC in die Schweiz kam	Fortnightly Fr, 14.15-16.00

### Legend

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