unine
Université de Neuchâtel
Faculté des sciences économiques

MASTER OF SCIENCE IN APPLIED ECONOMICS (MSCAPEC), 90 ECTS
MASTER OF SCIENCE EN ÉCONOMIE APPLIQUÉE, 90 ECTS

In effect since the 2025-2026 academic year

OPTIONAL TRACKS IN SUSTAINABILITY OR DATA SCIENCE

Code	Title	Instructor	ECTS	Semester	H/week	Grading policy	Status
Compulsory courses							
5ER2028	Microeconomic Policy	*M. Farsi*	6	Autumn	4	E	Compulsory
5ER2050	Behavioral Economics	*C. Zihlmann ; S. Khelifa*	3	Autumn	2	EI+E	Compulsory
5EN2022	Social Policy	*D. Ilić ; T. Brändle*	3	Autumn	2	E	Compulsory
5AF2017	Applied Macroeconometrics	*D. Kaufmann*	6	Autumn	4	EI+E	Compulsory
5ER2043	Globalization and Trade Policy	*G. Loumeau*	6	Spring	4	EI+E	Compulsory
5ER2053	Economic Research and AI	*Q. Gallea*	3	Spring	2	EI+E	Compulsory
5ER2054	Macroeconomic Policy	*P. Wegmüller*	3	Spring	2	E	Compulsory
5ER2020	Applied Microeconometrics	*B. Lanz*	6	Spring	4	EI+E	Compulsory
Electives[1]							
5ER2041	Empirical Labor Economics	*R. Strobl*	6	Autumn	4	EI+E	Elective
5ER2048	Monetary Policy in a New Era	*F. Canetg*	3	Autumn	2	EI	Elective
5ER2051	Health Economics and Policy	*R. Strobl*	3	Spring	2	E	Elective
5ER2019	Political Economy	*P. Fortunato*	3	Spring	2	E	Elective
5ER2052	International Finance and Macroeconomics	*D. Kaufmann*	3	Spring	2	E	Elective
Electives: Track in Data Science[2]							
5MI2017	Data Management	*I. Ciorascu*	6	Autumn	4	EI+E	Elective
5AF2029	Programming	*E. Simon*	3	Autumn	2	E	Elective
3IN2011	Machine Learning and Data Mining[4]	*C. Dimitrakakis*	5	Autumn	4	E	Elective
3IN2064	Reinforcement Learning and Decision Making under Uncertainty[4]	*C. Dimitrakakis*	5	Spring	4	EI+E	Elective
5MI2018	Machine Learning	*I. Ciorascu*	6	Spring	4	EI+E	Elective
Electives : Track in Sustainability[2]							
5ER2017	Global Public Goods	*J.-M. Solleder*	3	Autumn	2	E	Elective
5ER2023	Environmental Economics	*N. Mathys*	3	Spring	2	E	Elective
5AF2049	Sustainable Finance	*M. Hasler*	6	Spring	4	EI+E	Elective
5ZZ2011	Innovation and Technology Policies	*A. Mack*	3	Spring	2	EI+E	Elective
Total			**72**				
5ER2047 or 5ER2046	Master thesis or internship thesis[3]		18				
GRAND TOTAL			**90**				

[1] Students select elective courses in order to complete the required total of 72 ECTS. Elective courses that are not listed above require the program director's prior approval.
[2] Minimum 12 ECTS among these courses required to obtain a track in *Data Science* or in *Sustainability*.
[3] To obtain a track, the thesis must be written on a topic in the corresponding field.
[4] Enrollment in the course and exam is subject to specific conditions and must be completed within the designated deadlines: See mcs.unibnf.ch/organization/

The relevant terms of evaluation are specified in the course descriptions
E: written exam during the exam session at the end of the semester. EI: evaluation organized during the semester

LEARNING OUTCOMES

On completion of this program, students will be able to:

Overarching skill
• Conduct and communicate evidence-based analysis to support economic decisions, from private decisions to public policies
Knowledge and understanding acquired in the program:
• Work with a set of economic models that are useful for applied analysis
• Understand how causal relationships can be identified from economic data
• Exploit economic data for predictions
Applying knowledge and understanding:
• Apply abstract analytical frameworks to real-world issues
• Construct datasets that are relevant to economic decisions
• Undertake econometric analyses with state-of-the-art software
Making judgements:
• Assess theories and empirical evidence on a specific economic issue
• Formulate recommendations to prepare economic decisions or policies
Communication skills:
• Define objectives and contributions of academic research to existing knowledge
• Combine different sources of information to form a coherent and sound argument
• Communicate results to specialists and non-specialists (orally and in writing)
Learning skills:
• Adopt an analytical and scientific approach to solve individual or societal problems
• Establish contacts to gather the required information
• Contribute actively to teamwork and team-building