

**MASTER OF SCIENCE IN APPLIED ECONOMICS (MSCAPEC)**

**MASTER OF SCIENCE EN ÉCONOMIE APPLIQUÉE**

OPTIONAL MAJOR IN : ENERGY AND ENVIRONMENTAL POLICY / DATA SCIENCE

**90 ECTS**

MSCAPEC	Instructor	ECTS	H/week	Grading policy
<b>Autumn semester (A)</b>				
<b>Compulsory courses</b>				
Macroeconomic Policy	<i>Kaufmann D.</i>	6	4	EI+E
Microeconomic Policy	<i>Farsi M.</i>	6	4	E
Economic Statistics	<i>Zarin M.</i>	3	2	E
Econometrics	<i>Starica C.</i>	6	4	EI+E
Empirical Research I	<i>Kandul S.</i>	3	2	EI+E
<b>Elective courses I<sup>1</sup></b>				
Public Policy Evaluation <sup>a)</sup>	<i>Weber S.</i>	3	2	EI+E
Global Public Goods <sup>a)</sup>	<i>Masood Dechevrens M.</i>	3	2	E
Data Management <sup>b)</sup>	<i>Simon E.</i>	6	4	EI+E
<b>Elective courses II<sup>1</sup></b>				
<b>Total for the semester</b>		<b>24-36</b>	<b>16-24</b>	
<b>Spring semester (S)</b>				
<b>Compulsory courses</b>				
Applied Econometrics	<i>Lanz B.</i>	6	4	EI+E
International Economics and Trade Policy	<i>Bacchetta M. and Monteiro J.-A.</i>	3	2	E
Economics of Regulation	<i>Rime B.</i>	3	2	E
Political Economy	<i>Fortunato P.</i>	3	2	E
Empirical Research II	<i>Grether J.-M., Alzúa M.-L. and Cicowicz M.</i>	3	2	EI+E
<b>Elective courses I<sup>1</sup></b>				
Energy Economics <sup>a)</sup>	<i>Farsi M.</i>	3	2	EI
Public Finance <sup>a)</sup>	<i>Zarin M.</i>	3	2	E
Environmental and Resource Economics <sup>a)</sup>	<i>Mathys N.</i>	3	2	E
Computational Thinking <sup>b)</sup>	<i>Holzer A.</i>	3	1 week <sup>2</sup>	EI
Machine Learning <sup>b)</sup>	<i>Ciorascu I.</i>	6	4	EI+E
<b>Elective courses II<sup>1</sup></b>				
Innovation and Technology Policies	<i>Mack A.</i>	3	2	EI+E
Monetary Policy in a New Era	<i>Canetg F.</i>	3	2	EI
Social Policy	<i>Pacheco D.</i>	3	2	EI+E
International Monetary System	<i>Siviero A. and Stuart R.</i>	3	2	E
Bayesian Econometrics with Applications in Economics and Finance	<i>Huber F.</i>	3	1 week <sup>2</sup>	EI
<b>Total for the semester</b>		<b>18-36</b>	<b>12-24</b>	
<b>Total</b>		<b>60</b>		
<b>Master thesis or internship thesis<sup>c)</sup></b>		<b>30</b>		
<b>GRAND TOTAL</b>		<b>90</b>		

<sup>a)</sup> Required to obtain a major in "Energy and Environmental Policy".

<sup>b)</sup> Required to obtain a major in "Data Science".

<sup>c)</sup> To obtain a major, the thesis must be written on a topic that is relevant for the targeted major.

<sup>1</sup> Students select elective courses in order to complete the required total of 60 ECTS. Elective courses that are not listed above require the program director's prior approval.

<sup>2</sup> One-week workshop organised the week before the beginning of spring semester.

E: written exam during the exam session at the end of the semester

EI: evaluation organized during the semester

Retake exam after 1 failure or a justified absence: written exam during the September session or the exam session at the end of the next semester the course is offered. The detailed terms of evaluation and duration of exams are specified in the course description.