

## Study plan

### M.Sc. Applied Economics and Data Science

1<sup>st</sup> October 2022

<b>4. Semester</b> Summer term	Master Thesis <b>24 CP</b>				Research Colloquium <b>6 CP</b>
	Possibility for a term abroad				
<b>3. Semester</b> Winter term	<b>wir873</b> Applied Economics <b>6 CP</b>	<b>wir895</b> Industrial Organization <b>6 CP</b>	Specialization II* <b>6 CP</b>	Specialization III* <b>6 CP</b>	Data Science III* <b>6 CP</b>
<b>2. Semester</b> Summer term	Economics II* <b>6 CP</b>	Economics III* <b>6 CP</b>	Specialization I* <b>6 CP</b>	Empirical Methods II* <b>6 CP</b>	Data Science II* <b>6 CP</b>
	Possibility for a term abroad				
<b>1. Semester</b> Winter term	Economics I* <b>6 CP</b>	<b>wir874</b> Advanced Microeconomics <b>6 CP</b>	<b>wir894</b> Econometrics of Policy Evaluation <b>6 CP</b>	Empirical Methods I* <b>6 CP</b>	Data Science I* <b>6 CP</b>

Economics Modules, in total 36 CP	Empirical Methods Modules, in total 18 CP	Data Science modules, in total 18 CP	Specialization Modules, in total 18 CP
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**Please note that the study plan is nonbinding and for guidance only. It illustrates the recommended course of studies based on the legally binding examination regulations (2022).**

\* See list of eligible elective modules on page 2.

### **(1) Economics Modules (in total 36 credit points)**

wir874 Advanced Microeconomics <sup>Wt</sup> (compulsory)  
wir895 Industrial Organization <sup>Wt</sup> (compulsory)  
wir873 Applied Economics <sup>Wt</sup> (compulsory)  
wir889 Applied Environmental Economics <sup>St</sup> (elective)  
wir893 Development Economics <sup>St</sup> (elective)  
wir821 International Trade, Production and Change <sup>St</sup> (elective)  
wir823 International Finance and Exchange Rate Economics <sup>Wt</sup> (elective)  
wir901 Environmental Economics <sup>Wt</sup> (elective)  
wir890 Climate Economics <sup>Wt</sup> (elective)  
wir878 Public Economics and Market Design <sup>St</sup> (elective)

### **(2) Empirical Methods Modules (in total 18 credit points)**

wir894 Econometrics of Policy Evaluation <sup>Wt</sup> (compulsory)  
wir875 Forecasting Methods <sup>Wt</sup> (elective)  
wir892 Computational Economics <sup>St</sup> (elective)  
wir897 Spatial Econometrics <sup>St</sup> (elective)  
wir888 Applied Econometrics Using GIS Techniques <sup>Wt</sup> (elective)  
wir887 Advanced Econometrics <sup>St</sup> (elective)  
wir891 Complex Data Analysis <sup>St</sup> (elective)

### **(3) Data Science modules (in total 18 credit points)**

inf604 Business Intelligence I <sup>Wt</sup> (elective)  
inf607 Business Intelligence II <sup>St</sup> (elective)  
inf535 Computational Intelligence I <sup>Wt</sup> (elective)  
inf536 Computational Intelligence II <sup>St</sup> (elective)  
inf980 Introduction to Computer Science for Natural Science Students <sup>Wt</sup>  
(elective)  
inf501 Environmental Information Systems <sup>St</sup> (elective)

### **(4) Specialization Modules (in total 18 credit points)**

wir896 Operations Management <sup>Wt, every two years</sup> (elective)  
wir899 Supply Chain Management <sup>Wt, every two years</sup> (elective)  
wir921 Sustainable Supply Chain Management <sup>St</sup> (elective)  
wir842 Banking <sup>St</sup> (elective)  
wir843 Financial Risk Management <sup>St</sup> (elective)  
wir886 Digital Transformation: Strategies and Sustainability <sup>St</sup> (elective)  
inf007 Information Systems I <sup>Wt</sup> (elective)  
inf008 Information Systems II <sup>St</sup>  
inf109 Information Systems III <sup>Wt</sup> (elective)  
inf510 Energy Information Systems <sup>Wt</sup> (elective)  
wir806 Information Technology Law <sup>Wt</sup> (elective)  
wir751 Study Abroad I \*\*  
wir752 Study Abroad II \*\*  
wir753 Study Abroad III \*\*

<sup>Wt</sup>: module is regularly offered in the winter terms

<sup>St</sup>: module is regularly offered in the summer terms

\*\* : modules for recognition of examinations abroad (cf. examination regulations)