# Study plan

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

1st October 2021

<table>
<thead>
<tr>
<th>4. Semester</th>
<th>Master Thesis</th>
<th>Research Colloquium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer term</td>
<td>24 CP</td>
<td>6 CP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Semester</th>
<th>wir873</th>
<th>wir895</th>
<th>Specialization II*</th>
<th>Specialization III*</th>
<th>Data Science III*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter term</td>
<td>Applied Economics 6 CP</td>
<td>Industrial Organization 6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
</tr>
<tr>
<td>2. Semester</td>
<td>Economics II* 6 CP</td>
<td>Economics III* 6 CP</td>
<td>Specialization I* 6 CP</td>
<td>Empirical Methods II* 6 CP</td>
<td>Data Science II* 6 CP</td>
</tr>
<tr>
<td>Summer term</td>
<td>6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. Semester</th>
<th>Economics I* 6 CP</th>
<th>wir874</th>
<th>wir894</th>
<th>Empirical Methods I* 6 CP</th>
<th>Data Science I* 6 CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter term</td>
<td>Advanced Microeconomics 6 CP</td>
<td>Econometrics of Policy Evaluation 6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
<td>6 CP</td>
</tr>
</tbody>
</table>

* See list of eligible elective modules on page 2.

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

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 (2021).
(1) Economics Modules (in total 36 credit points)

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

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

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

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

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

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

wir896 Operations Management Wt, every two years (elective)
wir899 Supply Chain Management Wt, every two years (elective)
wir921 Sustainable Supply Chain Management St (elective)
wir842 Banking St (elective)
wir843 Financial Risk Management St (elective)
wir886 Digital Transformation: Strategies and Sustainability St (elective)
inf007 Information Systems I Wt (elective)
inf008 Information Systems II St
inf109 Information Systems III Wt (elective)
inf510 Energy Information Systems Wt (elective)
wir806 Information Technology Law Wt (elective)

Wt: module is regularly offered in the winter terms
St: module is regularly offered in the summer terms