Introduction to the M.Sc. Applied Economics and Data Science

Orientation Week, 9. October 2024

Responsible for the degree program

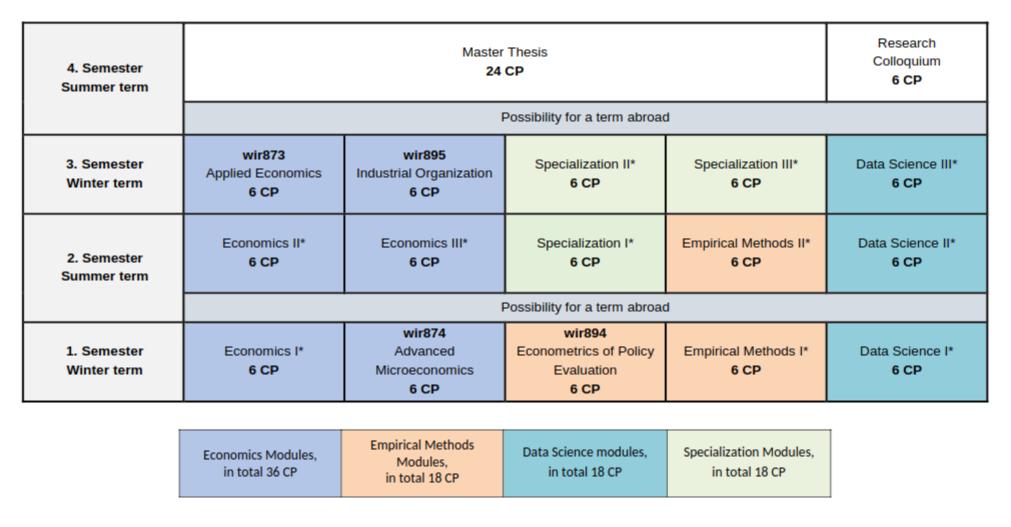Prof. Dr. Christoph Böhringer

and

Dr. Bernhard C. Dannemann

Structure of the program

- Relatively new master program (start 2021/22)!
- Master program (4 semesters, 120 CP)
- Degree: Master of Science (M.Sc.)
- 25 places in degree program, about 300 applications
- Opportunity for a term abroad in 2nd or 4th term
- Mentor program

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023

Dr. Bernhard C. Dannemann

Study plan

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

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 (2023).

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2024

Dr. Bernhard C. Dannemann

Study plan

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

wir874 Advanced Microeconomics [Wt] (compulsory)
wir895 Industrial Organization [Wt] (compulsory)
wir873 Applied Economics [Wt] (compulsory)
wir760 Computable General Equilibrium Analysis [Wt] (elective)
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)

inf040 Introduction to Data Science [irregular interval] (elective)
inf604 Business Intelligence I [Wt] (elective)
inf607 Business Intelligence II [St] (elective)
inf535 Computational Intelligence I [Wt] (elective)
inf536 Computational Intelligence II [St] (elective)
inf962 Fundamental Competences in Computing Science III: Algorithms and computational Problem Solving [Wt] (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)
inf510 Energy Information Systems [Wt] (elective)
wir806 Information Technology Law [Wt] (elective)
wir898 Strategic Sustainability Management [St or Wt] (elective)
wir751 Study Abroad I **
wir752 Study Abroad II **
wir753 Study Abroad III **

[Wt]: module is regularly offered in the winter terms
[St]: module is regularly offered in the summer terms
**: modules for recognition of examinations abroad (cf. examination regulations)

Information on the study plan

1. Sticking to the study plan is reasonable from an organizational perspective, however, it is not a must

2. Specialization I-III should be used to create an individual profile:

    1. For future jobs,

    2. for personal development,

    3. for a Ph.D.

3. A term abroad can be realized most simply in the 2nd or 4th term.

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Organization of exams

1. Registration to exams via the e-learning platform Stud.IP

2. Each module and the corresponding exam is held once a year

3. Three attempts to pass a module

4. Responsible person at the Examinations Office: not yet clear

For further information please visit: https://uol.de/en/course-of-study/exams/applied-economics-and-data-science-master-619

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023

Dr. Bernhard C. Dannemann

Information and advice on the degree program

Website of the University ⇨ Studies ⇨ Study decision ⇨ Degree programmes ⇨ Master's Programme ⇨ Applied Economics and Data Science

- Advisory services for students: https://uol.de/en/students/service-advice/students

- Subject Advisory Service Business Administration, Economics and Law email: fsb.wire@uni-oldenburg.de Ms. Mareike Junker-Michel

Semester abroad ⇨ Ms. Groscurth

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Departmental Consultation for International Studies

Would you like to build intercultural competence, to collect international experience and to **go abroad** during your second cycle studies in Applied Economics and Data Science?

We will find a way (out)

advisory service hours for students: every Tuesday from 10.00 to 12.30

some first suggestions:
o   follow informative meetings for new students immediately in fall 2024
o   subscribe to the newsletter of the central International Office „study abroad" now
o   join StudIP-study group „UOL International Students Economics" in October 2024
o   seek individual advice and benefit from UOL and Departmental networking early on
o   keep in mind the closing date for applications for international exchange programmes and grants

Kerstin Groscurth
phone +49 (0)441/798-4146
kerstin.groscurth@uol.de
https://uol.de/en/study-in-oldenburg

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Mentor program

- **Discussion of problems as well as hints and tricks for the M.Sc. A&D**

- **Two meetings per term with all students of one cohort of the M.Sc. A&D**

- **One pub meeting with all students of the M.Sc. A&D**

- **Information on the meeting can be found on StudIP. Sign up to the lecture „M. Sc. Applied Economics and Data Science mentor program, cohort 4 (WS 24/25)"**

Mentor program: Appointments!

First mentor program meeting:
Tuesday, 29th October 2024, 10 o'clock, room A5 1-158!

- **Pub meeting: Tuesday, 12th November 2024 at the pub "Patio" (Bahnhofstr. 11, 26122 Oldenburg), starting at 19 o'clock**

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Student representation

Fachschaftsrat Wirtschafts- und Rechtswissenschaften (student council business, economics and law)

1. Participation and representation in University committees (e.g. commission of study affairs, department and faculty board)

2. Collection of problems during the study life and mediation of solutions

3. Student activities (parties, O Week etc.)

4. www.FSR-WiRe.de or Instagram

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Accomodation Support

- **The university (or the Studentenwerk) are unable to meet the full demand for accommodation**

  - The **International Office** offers assistance and advice for finding an apartment or an accommodation

  - **WHEN:** Weekly sessions, every Wednesday

  - **FORMAT:** In-person and online options available

  - **WHERE:** IKT and online: https://webconf.uol.de/rooms/3rf-ltm-f3r-evp/join

  - **WHEN: 18 – 20 o'clock**

Some advice for studying!

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023

Dr. Bernhard C. Dannemann

Some advice for studying!

- **Personal responsibility is very high studying the degree program!!!**

  - **It is your own responsibility to visit the modules**

  - **Continuous learning**

Networking with other students ⇨ learning groups
  - **Choice of modules to build a coherent skill profile instead of looking for the module where you easily get good marks!!!**

  - **Mastering challenges**

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Some advice for studying!

Individual planning of the course of studies: three examples

1. Example

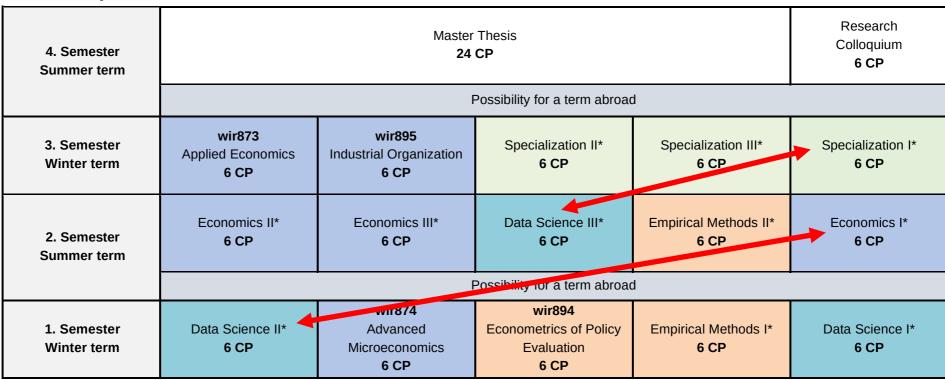| 1. Winter term |
| --- |
| wir874 Advanced Microeconomics (compulsory) 6 CP |
| wir894 Econometrics of Policy Evaluation (compulsory) 6 CP |
| inf962 Fundamental Competences in Computing Science III: Algorithms and computational Problem Solving (elective) |
| inf535 Computational Intelligence I (elective) 6 CP |
| wir875 Forecasting Methods (elective) 6 CP |

Some advice for studying!

Individual planning of the course of studies: three examples

1. Example

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

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Some advice for studying!

Individual planning of the course of studies: three examples

2. Example

1. Winter term

wir874 Advanced Microeconomics (compulsory) 6 CP

wir894 Econometrics of Policy Evaluation (compulsory) 6 CP

inf535 Computational Intelligence I (elective) 6 CP

inf510 Energy Information Systems (elective)

wir823 International Finance and Exchange Rate Economics (elective) 6 CP

Some advice for studying!

Individual planning of the course of studies: three examples

2. Example

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

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023

Dr. Bernhard C. Dannemann

Some advice for studying!

Individual planning of the course of studies: three examples

3. Example

1. Winter term

wir874 Advanced Microeconomics (compulsory) 6 CP

wir894 Econometrics of Policy Evaluation (compulsory) 6 CP

inf535 Computational Intelligence I (elective) 6 CP

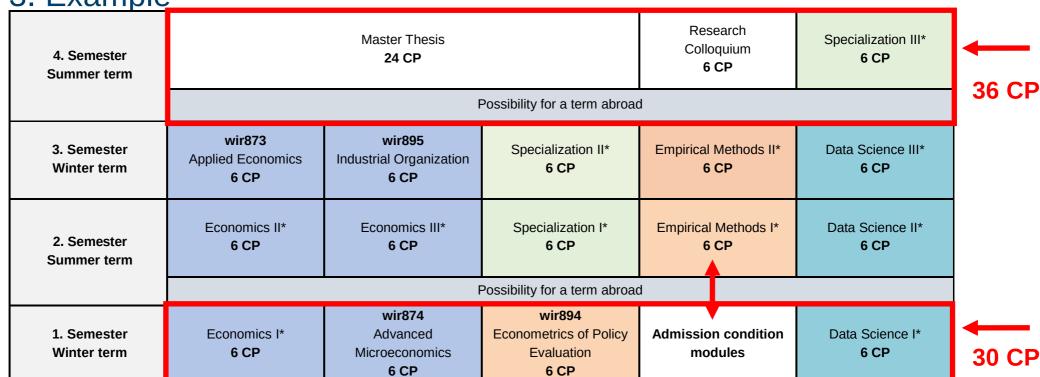wir823 International Finance and Exchange Rate Economics (elective) 6 CP

Admission condition modules*

* They have to be bachelor modules!!!

Some advice for studying!

Individual planning of the course of studies: three examples

3. Example

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

36 CP

30 CP

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023
Dr. Bernhard C. Dannemann

Some advice for studying!

- **Email Account**

  - **forename.surname@uol.de**

  - **First communication channel for official communication, check regularly**

  - **You can link it with your private email account**

- **Todays presentation will be uploaded in Stud.IP (Mentor program cohort 4) in the files section**

Have fun and good luck!!!

Questions?
E-Mail: bernhard.dannemann@uol.de

Introduction to the M.Sc. Applied Economics and Data Science — O Week, 7. October 2023

Dr. Bernhard C. Dannemann