

# Module Catalogue

for the Subject

# Econometrics

as a Bachelor's with 1 major  
with the degree "Bachelor of Science"  
(180 ECTS credits)

Examination regulations version: 2022  
Responsible: Faculty of Mathematics and Computer Science  
Responsible: Faculty of Management and Economics

## Contents

The subject is divided into	6
Learning Outcomes	7
Abbreviations used, Conventions, Notes, In accordance with	9
Compulsory Courses	10
Subfield Mathematics	11
Overview Analysis for Economathematics	12
Overview Linear Algebra for Economathematics	13
Stochastics 1 for Economathematics	14
Introduction to Stochastic Financial Mathematics	15
Subfield Computer Science	16
Basics in Algorithms and Data Structures for Economathematics	17
Practical Course in Programming for Economathematics	18
Subfield Business Management and Economics	19
Supply, Production and Operations Management	20
Organization	22
Investment and Finance	24
Macroeconomics 1	26
Macroeconomics 2	28
Microeconomics 1	30
Economic Principles of Risk Management	32
Compulsory Electives Economathematics	34
Subfield Mathematics	35
Numerical Mathematics 1 for Economathematics	36
Stochastics 2 for Economathematics	37
Advanced Analysis for Economathematics	38
Ordinary Differential Equations for Economathematics	39
Introduction to Functional Analysis for Economathematics	40
Optimization for Machine Learning	41
Applied Stochastics Lab	43
Machine Learning and Numerics Lab	44
Subfield Business Management and Economics	45
Marketing	46
Entrepreneurship, Competition and Strategy	48
Sales and Customer Relationship Management	50
Seminar: Marketing	52
International Marketing	54
Supply, Production and Logistics Management. Material Requirements Planning	56
Humanitarian Supply Chain Management	58
Seminar: Supply, Production and Logistics Management	60
Modern Approaches in Logistics	62
Foundations of transport logistics	64
Digital Science 1	66
Digital Science 2	68
Digital Science 3	70
Digital Science 4	72
Strategic and Innovation Management	74
Entrepreneurship	76
Seminar: Research Seminar	78
Seminar: Business Simulation	80
Seminar: Business Plan	82
Supply Chain Management	84
Seminar: Logistics & Supply Chain Management	86

Toyota Supply Chain Management	88
Microeconomics 2	90
Games and Strategies	92
Competition Policy	94
Economics of Regulation	96
Seminar: Competition and Strategy	98
Industrial Organization	99
Integrated Business Processes	101
Forward and Reverse Business Engineering	103
Seminar: Information Systems	105
Web Programming	107
E-Business	109
Advanced Web Engineering	111
E-Business Project	113
Business Intelligence	115
Programming for Management Students	117
Data Management and Analysis	119
Planning and Decision Making in Business Information Systems	121
Primer in Data Science	123
Business Strategy for Information and Network Industries	125
Computational Economics	127
Practice of Data Analysis	129
Computerlab - Applied Econometrics	131
Seminar: Econometrics	133
Managerial Accounting	134
Financial Accounting	136
International Accounting	138
Financial Statement Analysis and Valuation	140
Seminar: Financial Accounting	142
Decision Theory	144
Seminar: Investment and Finance	146
Introduction to Risk Management	148
Business Valuation between Financial Mathematics and Data on Capital Market	151
Accounting	153
Business Taxation 1: An Introduction to Tax Law & Tax Planning	155
Business Taxation 2: The Taxation of Income in Germany	157
Business Taxation 3: Introduction to VAT	159
Selected Topics in Business Taxation	161
Seminar: Business Taxation	162
Managerial Accounting: cost-based decision-making and control	164
Sales Accounting & Management	166
Seminar: Managerial Accounting	168
Monetary Policy and Financial Markets	169
International Money & Finance	171
Applied Business Cycle Analysis and Forecasting	173
Seminar: Economic Policy	175
Seminar: Public Finance	177
Insurance Markets	178
Business Cycle Analysis	180
Seminar: Business cycles, corporate finance and asset markets	182
European Macroeconomics	184
Human Resource Management	186
Seminar: Human Resource Management & Organizational Theory	187
International Economics	188
Seminar: International Economics	190
Applied Regional and Urban Economics	192
Public Policy	194

Labour Economics	196
Seminar: Labour Economics	198
Economics of Information	200
Seminar: Decision Making and Incentive Design	202
Introduction to Business Journalism	204
Crossmedia Storytelling in Business Communication	206
Seminar: Business Journalism and Business Communication	208
Managerial Practice Lectures	210
Economist Practice Lectures	212
Challenges of China's Economic Rise	214
Selected Topics of Business Management and Economics 1	216
Selected Topics of Business Management and Economics 2	217
Social Commerce	218
Customer Analytics	220
Data-Driven Supply Chain Management	222
Seminar: Digitalization in Supply Chain Management	224
Seminar: Supply Chain Analytics	226
Decision-Making in Organizations and Teams	228
Management & Digital Transformation	230
Seminar: Information Systems and Engineering	232
Seminar: Information Systems and Business Analytics	234
Seminar: Information Systems and Enterprise Artificial Intelligence	236
Simulation for Decision Making	238
Geospatial Data Analytics & Smart Cities	240
Data-Driven Decisions in Practice	242
Data Science and Applied Econometrics in Business and Economics	244
Seminar: Empirical and Experimental Psychology and Economics	246
Behavioral and Experimental Economics	248
Globalization and the Environment	250
<b>Subfield Computer Science</b>	<b>252</b>
Software Technology	253
<b>Compulsory Electives Analysis</b>	<b>255</b>
Analysis 1 for Economathematics	256
Analysis 2 for Economathematics	257
<b>Compulsory Electives Linear Algebra</b>	<b>258</b>
Linear Algebra 1 for Economathematics	259
Linear Algebra 2 for Economathematics	260
<b>Key Skills Area</b>	<b>261</b>
General Key Skills	262
General Key Skills (subject-specific)	263
Exercise tutor or proof-reading in Mathematics	264
E-Learning and Blended Learning Mathematics 1	266
E-Learning and Blended Learning Mathematics 2	267
Subject-specific Key Skills	268
Subject-specific Key Skills, Compulsory Courses	269
Basic Notions and Methods of Mathematical Reasoning	270
Reasoning and Writing in Mathematics	272
External Internship Business Mathematics	274
Subject-specific Key Skills, Compulsory Electives	275
Computational Mathematics	276
Programming course for students of Mathematics and other subjects	278
Elementary Quantitative Risk Assessment	280
Student Teaching Assistant 1	281
Student Teaching Assistant 2	282



Introduction to Scientific Work	283
Seminar: Cross-Cultural Management 1 - Introduction to Cross-Cultural Management	284
Cross-Cultural Management 2 - Leading Across Cultures	286
China: Business location and trading partner	288
India: Business location and trading partner	290
Intercultural Business Competence	291
Intercultural Management 1	293
Intercultural Management 2	295
Global Systems and Intercultural Competences - Economic Aspects of Globalization. An Introduction	297
Global Systems and Intercultural Competences - Economic Aspects of Globalization - Advanced Level	299
Economic and Business Ethics	301
Securities Management	303
DATEV - Introduction to DATEV-Software for Tax Accounting	305
SAP ERP Human Capital Management	307
Managerial Problem Solving	309
Basics of Supply Networks	311
Management of Supply Networks	313
Professional Apply	314
Professional Presentation	316
Management Case Studies	318
Managing interactive - Business Simulation Game	320
Project Management	322
Career planning and professional skills for students of Business and Economics	324
General Management 1	326
General Management 2	327
General Management 3	328
General Management 4	329
Training of Intercultural Competences	330
<b>Thesis Area</b>	<b>332</b>
Thesis Econometrics	333

## The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	95	10
Subfield Mathematics	45	11
Subfield Computer Science	15	16
Subfield Business Management and Economics	35	19
Compulsory Electives Econometrics	45	34
Subfield Mathematics	10	35
Subfield Business Management and Economics	15	45
Subfield Computer Science		252
Compulsory Electives Analysis	5	255
Compulsory Electives Linear Algebra	5	258
Key Skills Area	20	261
General Key Skills	5	262
General Key Skills (subject-specific)		263
Subject-specific Key Skills	15	268
Subject-specific Key Skills, Compulsory Courses	12	269
Subject-specific Key Skills, Compulsory Electives	3	275
Thesis Area	10	332

## Learning Outcomes

German contents and learning outcome available but not translated yet.

### Wissenschaftliche Befähigung

- Die Absolventinnen und Absolventen sind vertraut mit den Arbeitsweisen und der zugehörigen Fachsprache der Mathematik und beherrschen die Methoden mathematischen Denkens und Beweisens.
- Die Absolventinnen und Absolventen besitzen grundlegende Kenntnisse der Stochastik, der Finanzmathematik und mindestens eines weiteren Gebiets der Mathematik und können sicher mit den Methoden dieser Gebiete umgehen.
- Die Absolventinnen und Absolventen besitzen einen umfassenden Überblick über die verschiedenen Disziplinen der Betriebs- und Volkswirtschaftslehre und können die zugrundeliegenden quantitativen, juristischen und theoretischen Methoden und Sichtweisen einordnen und anwenden.
- Die Absolventinnen und Absolventen kennen die Grundlagen der Informatik und sind in der Lage, kleinere und mittlere Projekte in mindestens einer modernen Programmiersprache selbständig zu entwickeln.
- Die Absolventinnen und Absolventen sind geschult in analytischem Denken, besitzen ein hohes Abstraktionsvermögen, universell einsetzbare Problemlösungskompetenz und die Fähigkeit, komplexe ökonomische Zusammenhänge zu strukturieren.
- Die Absolventinnen und Absolventen sind in der Lage, sich selbständig mithilfe von Fachliteratur in weitere Gebiete der Mathematik und Wirtschaftswissenschaften einzuarbeiten.
- Die Absolventinnen und Absolventen sind in der Lage, ihre Kenntnisse, Ideen und Problemlösungen verständlich zu präsentieren.
- Die Absolventinnen und Absolventen besitzen die für ein weiterführendes, insbesondere Master-Studium, erforderlichen Grundkenntnisse, Denk- und Arbeitsweisen und Methodenkenntnisse.
- Die Absolventinnen und Absolventen kennen die Regeln guter wissenschaftlicher Praxis und sind in der Lage, sie in ihrer eigenen Arbeit zu beachten.

### Befähigung zur Aufnahme einer Erwerbstätigkeit

- Die Absolventinnen und Absolventen sind geschult in analytischem Denken, besitzen ein hohes Abstraktionsvermögen, universell einsetzbare Problemlösungskompetenz und die Fähigkeit, komplexe ökonomische Zusammenhänge zu strukturieren.
- Die Absolventinnen und Absolventen sind in der Lage, ihre Kenntnisse, Ideen und Problemlösungen zielgruppenorientiert verständlich zu formulieren und zu präsentieren.
- Die Absolventinnen und Absolventen sind in der Lage, konkrete Probleme aus anderen Gebieten, insbesondere der Wirtschaftswissenschaften, zu erkennen, strukturieren modellieren und mit mathematischen Methoden Lösungswege zu entwickeln.
- Die Absolventinnen und Absolventen besitzen ein ausgeprägtes Durchhaltevermögen bei der Lösung komplexer Probleme innerhalb eines vorgegeben Zeitrahmens.
- Die Absolventinnen und Absolventen sind in der Lage, konstruktiv und zielorientiert in Teams zu arbeiten.
- Die Absolventinnen und Absolventen sind in der Lage, sich weitere Wissensgebiete selbständig, effizient und systematisch zu erschließen.
- Die Absolventinnen und Absolventen sind vertraut mit mindestens einer modernen Programmiersprache und können kleinere und mittlere Projekte selbständig entwickeln.
- Die Absolventinnen und Absolventen besitzen die Fähigkeit, in interdisziplinär zusammengesetzten Teams im Bereich der Mathematik, Informatik und Wirtschaftswissenschaften gestaltend mitzuwirken.

- Die Absolventinnen und Absolventen kennen Unternehmensstrukturen und besitzen die Fähigkeit, Probleme aus der wirtschaftlichen Praxis selbständig zu bearbeiten.

### **Persönlichkeitsentwicklung**

- Die Absolventinnen und Absolventen sind geschult in analytischem Denken, besitzen ein hohes Abstraktionsvermögen, universell einsetzbare Problemlösungskompetenz und die Fähigkeit, komplexe ökonomische Zusammenhänge zu strukturieren.
- Die Absolventinnen und Absolventen sind in der Lage, volks- und betriebswirtschaftliche, sowie gesellschaftliche Entwicklungen und Prozesse kritisch zu reflektieren und zu bewerten.
- Die Absolventinnen und Absolventen sind in der Lage, in partizipativen Prozessen gestaltend mitzuwirken.
- Die Absolventinnen und Absolventen besitzen ein ausgeprägtes Durchhaltevermögen bei der Lösung komplexer Probleme innerhalb eines vorgegeben Zeitrahmens.
- Die Absolventinnen und Absolventen sind in der Lage, Ideen und Lösungsvorschläge allgemeinverständlich zu formulieren und präsentieren.

## Abbreviations used

Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

## Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

## Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

## In accordance with

the general regulations governing the degree subject described in this module catalogue:

**ASPO2015**

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

**22-Mar-2022 (2022-14)**

**31-Jan-2023 (2022-84)**

**22-Nov-2023 (2023-89)**

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

## Compulsory Courses

(95 ECTS credits)

## Subfield Mathematics

(45 ECTS credits)

Module title			Abbreviation
Overview Analysis for Economathematics			10-M-ANB-Ü-222-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
13	numerical grade	--	
Duration	Module level	Other prerequisites	
2 semester	undergraduate	--	
Contents			
Real numbers and completeness, basic topological notions, convergence and divergence of sequences and series, differential and integral calculus in one variable, further topological considerations, differential calculus with a focus on functions in several variables.			
Intended learning outcomes			
The student knows and masters the essential methods and proof techniques of analysis and is able to apply them independently, He/She has an overview over the fundamental notions and concepts of analysis, their analytic background and geometric interpretation, and can interconnect them and express them adequately in written and oral form.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to the contents of modules 10-M-ANB1 and 10-M-ANB2. Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
390 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			



Module title			Abbreviation
Overview Linear Algebra for Economathematics			10-M-LNB-Ü-222-mo1
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
13	numerical grade	--	
Duration	Module level	Other prerequisites	
2 semester	undergraduate	--	
Contents			
Basic notions and structures; vector spaces, linear maps and systems of linear equations; theory of matrices and determinants; eigenvalue theory; bilinear forms and Euclidean/unitary vector spaces; diagonalisability and Jordan normal form.			
Intended learning outcomes			
The student knows and masters the essential methods and proof techniques of linear algebra and is able to apply them independently. He/She has an overview over the fundamental notions and methods of linear algebra, knows about their algebraic and geometric background, is able to relate them to each other and can present them adequately in written and oral form.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to the contents of modules 10-M-LNB1 and 10-M-LNB2. Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
390 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			

Module title			Abbreviation
Stochastics 1 for Economathematics			10-M-STB1-152-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Combinatorics, Laplace models, selected discrete distributions, elementary measure and integration theory, continuous distributions: normal distribution, random variable, distribution function, product measures and stochastic independence, elementary conditional probability, characteristics of distributions: expected value and variance, limit theorems: law of large numbers, central limit theorem.			
Intended learning outcomes			
The student is acquainted with fundamental concepts and methods in stochastics, applies these methods to practical problems and knows about the typical fields of application.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
300 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			

Module title			Abbreviation
Introduction to Stochastic Financial Mathematics			10-M-EFM-152-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
9	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Arbitrage and no-arbitrage, annuities and bonds, valuation of deterministic cash flows, actuarial present value, term structures and yield curves, forwards, payout profiles of options and other derivatives, fundamental theorem of asset pricing in the stochastic one-period model, risk neutral price measures, replication and completeness, stochastic multi-period models, valuation of European options in the binomial model, Black-Scholes formula.			
Intended learning outcomes			
The student is acquainted with the fundamental concepts and methods of stochastic financial mathematics, can apply them to practical problems and knows about typical fields of application.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
270 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 15 / 333	

## **Subfield Computer Science**

(15 ECTS credits)

Module title			Abbreviation
Basics in Algorithms and Data Structures for Economathematics			10-I-GADW-172-m01
Module coordinator		Module offered by	
Dean of Studies Informatik (Computer Science)		Institute of Computer Science	
ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Design and analysis of algorithms, recursion vs. iteration, sort and search methods, data structures, abstract data types, lists, trees, graphs, basic graph algorithms, programming in Java.			
Intended learning outcomes			
The students are able to independently design algorithms as well as to precisely describe and analyse them. The students are familiar with the basic paradigms of the design of algorithms and are able to apply them in practical programs. The students are able to estimate the run-time behaviour of algorithms and to prove their correctness.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
300 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			

Module title		Abbreviation
Practical Course in Programming for Econometrics		10-I-PPW-222-m01
Module coordinator		Module offered by
Dean of Studies Informatik (Computer Science)		Institute of Computer Science
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The programming language Java. Independent creation of small to middle-sized, high-quality Java programs.		
Intended learning outcomes		
The students are able to independently develop small to middle-sized, high-quality Java programs.		
Courses (type, number of weekly contact hours, language — if other than German)		
P (6)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
practical examination (programming exercises, approx. 120 hours) and written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		

## **Subfield Business Management and Economics**

(35 ECTS credits)

Module title			Abbreviation
Supply, Production and Operations Management			12-BPL-G-212-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This course will provide students with an overview of fundamental processes in procurement, production and logistics and the related corporate functions as well as a model-based introduction to related planning procedures.			
Intended learning outcomes			
The students will be able to describe and discuss the objectives and major processes in the domains of corporate procurement, production and logistics as well as their interdependencies. Furthermore, they are capable of developing and applying basic planning models in these fields.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + T (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: winter semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 20 / 333



Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation
Organization			12-EBWL-G-212-m01
Module coordinator		Module offered by	
holder of the Chair for Human Resource Management and Organisation		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The lecture Organisation covers the basic methodological, empirical, and institutional concepts of management that are necessary for the further study of the subject. More specifically, it gives answers to the question why there are organisations. In addition, different goals, strategies, and structures of enterprises as well as their economic and societal environment are discussed. Finally, selected empirical findings from organisation research are presented together with the basic tool kit for empirical methods and approaches.			
Intended learning outcomes			
Students should be able to understand, discuss and apply basic theories, econometric techniques as well as empirical findings in organisation science.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + T (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: winter semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) Master's degree (1 major) Media Entertainment (2022) Master's degree (1 major) Psychology of digital media (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 22 / 333

Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title		Abbreviation
Investment and Finance		12-I&F-G-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Corporate Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Content:</p> <p>This course offers an introduction to principles of financial mathematics, several methods of capital budgeting and principles of financial economics.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Principles of financial mathematics</li> <li>2. Fundamental concepts</li> <li>3. Problems of investment and finance in one commodity world under certainty</li> <li>4. Problems of investment and finance in one commodity world under uncertainty</li> <li>5. Problems of investment and finance in many commodities world under uncertainty</li> <li>6. Capital market and corporate financing in Germany</li> </ol>		
Intended learning outcomes		
<p>After completing the course "Principles of Investments and Finance", the students will be able</p> <p>(i) to understand the fundamentals in financial mathematics and solve several problems, e.g. via the PV approach;</p> <p>(ii) to address the central problems in intertemporal allocation given different capital market scenarios;</p> <p>(iii) to budget and calculate the optimal useful life given static and dynamic investment approaches under the consideration of several other investment opportunities and the capital market scenario, especially the influence of taxes.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>written examination (approx. 60 minutes)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) China Business and Economics (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 24 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title		Abbreviation
<b>Macroeconomics 1</b>		12-Mak1-G-212-m01
Module coordinator		Module offered by
holder of the Chair of International Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Description:</p> <p>This module covers basic macroeconomic relationships, the determination of employment, production, interest, current and capital account, nominal and real exchange rate, prices and inflation - in the long run (with flexible wages and prices) and in the short term (with fixed wages and prices). The course will familiarise students with concepts which are of central importance in a globalised environment (e. g. interest rate arbitrage, foreign exchange risk, purchasing power parity). The explanations will be applied to current issues (e. g. current account balances in the global economy; questions related to the European monetary union and the global financial crisis).</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>Macroeconomic issues and characteristics <ul style="list-style-type: none"> <li>Issues of macroeconomics</li> <li>The measurement of economic activity</li> </ul> </li> <li>Long-term relationships <ul style="list-style-type: none"> <li>The classic long-term model of the closed economy</li> <li>Money and Inflation</li> <li>The classic long-term model of a small open economy</li> <li>Unemployment</li> </ul> </li> <li>Short and medium-term relationships <ul style="list-style-type: none"> <li>Fluctuations of economic activity: an introduction</li> <li>The IS-LM model of a closed economy</li> <li>The IS-LM model of an open economy</li> <li>Aggregate supply and Phillips curve</li> <li>Conclusion and outlook</li> </ul> </li> </ol> <p>Reading:</p> <p>The latest editions of the following textbooks:</p> <p>N. Gregory Mankiw: Macroeconomics [students are recommended to read the original English edition; they may also read the German translation]</p> <p>Olivier Blanchard and David H. Johnson, Macroeconomics Prentice Hall; [a German-language edition of the book by Olivier Blanchard and Gerhard Illing is available from Pearson Studium].</p> <p>Michael Burda and Charles Wyplosz: Macroeconomics. A European text.</p> <p>To illustrate the lecture, case studies in particular will be developed in which more current sources are used.</p>		
Intended learning outcomes		
<p>This expertise enables the students to penetrate economically-intuitively and analytically macroeconomic interactions and problems in the course of advancing globalization and to deal with these arguments. Students learn to interpret on a scientific basis the impact of macroeconomic developments in individual economic actors (businesses, households, the state).</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		

<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 60 minutes) Language of assessment: German and/or English
<b>Allocation of places</b>
--
<b>Additional information</b>
--
<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: winter semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Econometrics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
Macroeconomics 2		12-Mak2-G-212-m01
Module coordinator		Module offered by
holder of the Chair of Public Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>Description:</p> <p>The lecture provides an introduction to long run or dynamic issues of macroeconomic theory and policy.</p> <p>Contents:</p> <ol style="list-style-type: none"> <li>1. Phillips curve and dynamic model</li> <li>2. Growth theory and policy</li> <li>3. Microeconomic foundations of macroeconomics</li> <li>4. Macroeconomic policy</li> </ol> <p>Lecture notes to be provided by Chair.</p>		
<b>Intended learning outcomes</b>		
After completing the course "Makroökonomie 2" students are familiar with the most important concepts of growth theory, they know the microeconomic foundations of modern macroeconomic theory and understand the intertemporal budget constraint of the government. Therefore they are able to discuss the growth and distributional consequences of policy reforms by applying simple economic models.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: summer semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Econometrics (2022) exchange program Business Management and Economics (2022)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 28 / 333



Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
Microeconomics 1		12-Mik1-G-212-m01
Module coordinator		Module offered by
holder of the Chair for Economics, Contract Theory and Information Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The lecture covers the following topics</p> <p>Theory of the household:</p> <ol style="list-style-type: none"> <li>1. Utility maximisation under constraints</li> <li>2. Comparative statics</li> <li>3. Income and substitution effects</li> <li>4. Labour supply</li> <li>5. Intertemporal consumption / savings decisions</li> </ol> <p>Theory of the firm:</p> <ol style="list-style-type: none"> <li>6. Production functions (technology)</li> <li>7. Profit maximisation</li> <li>8. Long run versus short run cost minimisation</li> <li>9. Supply of goods</li> </ol>		
Intended learning outcomes		
Students are systematically trained in microeconomic methods relevant in household and firm theory. Accordingly, they will know how to solve optimization problems under constraints. These scientific methods will serve as useful in many fields of specialization in economics and business administration. In particular, students know analytically how to analyze the impact of changes in the economic environment, e.g., wages, interest rates, income on individual decision making.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		

Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title			Abbreviation
Economic Principles of Risk Management			12-Risk-152-mo1
Module coordinator		Module offered by	
holder of the Chair for Economics, Contract Theory and Information Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Rational decisions under uncertainty 1. Measures of risk aversion 2. Mean preserving spread 3. Axiomatic foundations of the expected utility hypothesis (Neumann/Morgenstern, Savage) 4. Insurance contracts 5. Optimal portfolios 6. Adverse selection 7. Moral Hazard 8. Experimental evidence and alternative approaches			
Intended learning outcomes			
After completing the course students are able to 1. explain the results of the economic theory of decisions under risk, 2. apply the involved methods to given simple examples on their own, 3. recognise, in which real life situations and how the results can be applied.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Master's degree (1 major) China Business and Economics (2016)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 32 / 333

Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

## **Compulsory Electives Econometrics**

(45 ECTS credits)

## **Subfield Mathematics**

(10 ECTS credits)

Module title		Abbreviation
Numerical Mathematics 1 for Econometrics		10-M-NUB1-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Solution of systems of linear equations and curve fitting problems, nonlinear equations and systems of equations, interpolation with polynomials, splines and trigonometric functions, numerical integration.		
<b>Intended learning outcomes</b>		
The student is acquainted with the fundamental concepts and methods in numerical mathematics, applies them to practical problems and knows about their typical fields of application.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (4) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Econometrics (2017) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		



Module title			Abbreviation
Stochastics 2 for Economathematics			10-M-STB2-152-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Elements of data analysis, statistics of data in normal and other distributions, elements of multivariate statistics.			
Intended learning outcomes			
The student is acquainted with fundamental concepts and methods in statistics, applies these methods to practical problems and knows about the typical fields of application.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
300 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			

Module title		Abbreviation
Advanced Analysis for Economathematics		10-M-VAB-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Continuation of analysis in several variables, integration theorems.		
<b>Intended learning outcomes</b>		
The student is acquainted with advanced topics in analysis. Taking the example of the Lebesgue integral, he or she is able to understand the construction of a complex mathematical concept.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (4) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)		

Module title			Abbreviation
Ordinary Differential Equations for Economathematics			10-M-DGB-152-mo1
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Existence and uniqueness theorem; continuous dependence of solutions on initial values; systems of linear differential equations; matrix exponential series; linear differential equations of higher order.			
Intended learning outcomes			
The student is acquainted with the fundamental concepts and methods of the theory of ordinary differential equations. He/she is able to apply these methods to practical problems.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
300 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			

Module title			Abbreviation
Introduction to Functional Analysis for Economathematics			10-M-FAB-152-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Banach spaces and Hilbert spaces, bounded operators, principles of functional analysis.			
Intended learning outcomes			
The student knows the fundamental concepts and methods of functional analysis as well as the pertinent proof methods, is able to apply methods from linear algebra and analysis to functional analysis, and realises the broad applicability of the theory to other branches of mathematics.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (4) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
300 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			

Module title		Abbreviation
Optimization for Machine Learning		10-M-OML-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Linear programming, quadratic programming, convex optimization, first order methods, application to machine learning problems such as support vector machines.		
Intended learning outcomes		
The student is acquainted with the relevant methods in optimization and is able to apply these methods to practical machine learning problems, both theoretically and numerically.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (4) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
300 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) exchange program Mathematics (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Mathematical Physics (2024) Master's degree (1 major) Physics International (2024) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 41 / 333

Bachelor's degree (1 major) Econometrics (2025)

Module title		Abbreviation
Applied Stochastics Lab		10-M-ASL-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
6	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Random number generators, Monte Carlo simulation, descriptive statistics, implementation of tests, estimators and confidence intervals, linear and logistic regression, analysis of (co-)variance, data applications		
<b>Intended learning outcomes</b>		
The student is acquainted with statistical software, e.g. R, able to apply suitable statistical methods to given data and problems and to adequately work out and present developed solutions.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + P (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
project work (30 to 60 hours) Language of assessment: German and/or English creditable for bonus		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
180 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024)		

Module title			Abbreviation
Machine Learning and Numerics Lab			10-M-MNL-222-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
6	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Numerical solution of linear and nonlinear Systems of equations, gradient methods, Newton methods, step size selection, numerical optimization, optimization for machine learning (e.g. ADAM)			
Intended learning outcomes			
The student is acquainted with mathematical software, e.g. MATLAB, Python or Julia, able to apply suitable numerical methods to machine learning problems and to adequately work out and present developed solutions.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + P (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
project work (30 to 60 hours) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
180 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			



## **Subfield Business Management and Economics**

(15 ECTS credits)

Module title			Abbreviation
Marketing			12-Mark-G-212-mo1
Module coordinator		Module offered by	
holder of the Chair of Business Administration and Marketing		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Description In this module, students will acquire the theoretical foundations of market-oriented management.			
Content: With the stakeholder approach as a starting point, the basic design of market-oriented management will be explained and exemplified in the 5 classical steps: situation analysis, objectives, strategies, tools and controlling. The course will focus not only on the behavioural approaches of consumer behaviour but also on industrial purchasing behaviour. A case study introducing students to the fundamental principles of market research based on a conjoint analysis will provide students with deeper insights into the topic.			
Outline of syllabus: 1. Marketing, entrepreneurship and business management 2. Explanations of consumer behaviour 3. Fundamentals of market research 4. Strategic marketing; marketing tools 5. Corporate social responsibility versus creating shared value			
Reading: Foscht, T. / Swoboda, B.: Käuferverhalten: Grundlagen -- Perspektiven -- Anwendungen, 4th revised and exp. ed., Wiesbaden 2011. Homburg, Ch.: Grundlagen des Marketingmanagements: Einführung in Strategie, Instrumente, Umsetzung und Unternehmensführung, 4th revised and exp. ed., Wiesbaden 2012. Homburg, Ch.: Grundlagen des Marketingmanagements: Einführung in Strategie, Instrumente, Umsetzung und Unternehmensführung, 3rd ed., Wiesbaden, 2012a. Kroeber-Riel, W. /Weinberg, P.: Konsumentenverhalten, 9th ed., Munich 2009. Meffert, H. / Burman, Ch / Kirchgeorg, M.: Marketing -- Grundlagen marktorientierter Unternehmensführung: Konzepte -- Instrumente -- Praxisbeispiele, 11th revised and exp. ed., Wiesbaden 2012. Meffert, H. / Burman, Ch / Becker, Ch.: Internationales Marketing-Management -- Ein markenorientierter Ansatz, 4th ed., Stuttgart 2010. Meyer, M.: Ökonomische Organisation der Industrie: Netzwerkarrangements zwischen Markt und Unternehmung, Wiesbaden 1995. Porter, M. E.: Wettbewerbsvorteile -- Spitzenleistungen erreichen und behaupten, 8th ed., Campus Frankfurt / New York 2014. (Original: Porter, M.: Competitive Advantage, New York 1985.) Simon, H. / Fassnacht, M.: Preismanagement, Strategie -- Analyse -- Entscheidung -- Umsetzung, 3rd ed., Wiesbaden 2009.			
Intended learning outcomes			
The students have a basic understanding of business management and are able to classify the knowledge systematically. In addition, they can use the acquired knowledge solve and identify the conventional problem fields of business management.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + T (2)			

<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 60 minutes) Language of assessment: German and/or English
<b>Allocation of places</b>
--
<b>Additional information</b>
--
<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: summer semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation
Entrepreneurship, Competition and Strategy			12-U&UF-F-152-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>Description:</p> <p>The module builds on the introductory course "Grundlagen marktorientierter Unternehmensführung" ("Fundamentals of Market-based Management"). It provides a systematic introduction to the approaches of corporate management (stakeholder and shareholder value approach) as well as an overview of market-oriented corporate governance. In addition, aspects of responsible leadership will be discussed.</p> <p>The theory of Chester Barnard with the idea of creating a complex economic incentive contribution balance in the company will help students develop an in-depth understanding of typical management tasks. In addition, the course will focus on the development of business plans for the successful establishment and the continued existence of companies.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"><li>1. Business and strategy in economic theory</li><li>2. Business plan as a strategy concept</li><li>3. Stakeholder management and responsible leadership</li><li>4. Stakeholder value, shareholder value and creating shared value</li></ol>			
Intended learning outcomes			
Students will gain profound knowledge of basics in business as well as basics in different approaches in corporate management. Furthermore the students will get an overview of the main tools to create a business plan.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015)			
Bachelor's degree (1 major) Economathematics (2015)			
Bachelor's degree (1 major) Business Information Systems (2015)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 48 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Master's degree (1 major) China Business and Economics (2016)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title			Abbreviation
Sales and Customer Relationship Management			12-SCRM-211-m01
Module coordinator		Module offered by	
holder of the Chair of Business Administration and Marketing		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>A key challenge for companies in a marketing context is to choose the right approaches on how to deliver their products and services to customers. In doing so, companies need to carefully consider their customers' needs and requirements to successfully manage company-customer relationships.</p> <p>This course focuses on classic and new approaches of sales and customer relationship management. In particular, it covers the set-up of sales systems in terms of offline channels (e.g., retail stores) and online channels (e.g., online shops or market places), their interplay (e.g., multi-channel management), or the management of the sales force.</p> <p>Moreover, it focuses on different types of customer-firm interactions, on approaches of analyzing customer satisfaction and loyalty, as well as on customer complaint management, cross-selling management or customer experience management.</p>			
Intended learning outcomes			
The major goal of this class is to learn about and understand how sales management and customer relationship management work and to be able to transfer respective concepts to real life / business practice.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) Written examination (approx. 60 to 120 minutes) or b) Term paper (to be prepared by one candidate or in groups of 3 candidates approx. 10 pages each person) or c) oral examination in groups (groups of 3, approx. 10 minutes each candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015)			

Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 50 / 333
---	--	---------------

Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Marketing		12-SMA-211-m01
Module coordinator		Module offered by
holder of the Chair of Business Administration and Marketing		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this course, students will acquire important knowledge and skills that will enable them to prepare a well-structured paper and to present the results of their work with the help of relevant topics in the fields of strategic marketing and strategic management.</p> <p>Reading: will vary according to topic</p>		
Intended learning outcomes		
<p>After completing the course "Marketing Strategie", students will be able to</p> <p>i. understand the fundamentals of scientific literature reviews; ii. integrate elaborated content in a scientific thesis; iii. create presentations independently.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>S (2) Module taught in: German and/or English</p>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>term paper (approx. 15 pages) and presentation (approx. 25 minutes); (weighted 2:1) Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Econometrics (2017) Bachelor's degree (1 major) Business Information Systems (2019)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 52 / 333



Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
International Marketing			12-INMA-211-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The course seeks to familiarize students with the tools and terminology to explore and understand marketing practices in an international environment. They will learn the scope and challenges of international marketing, the dynamic environment of international trade, culture, political, legal, and business systems of globalizing markets, opportunities and threats on global markets and develop decision-making skills for the successful formulation, implementation and control of international marketing strategies. In particular, the course highlights strategic and managerial issues related to international marketing.			
Intended learning outcomes			
Students are required to study and prepare marketing approaches to enter and operate in international markets. Students intensify their knowledge and develop theoretical and practical concepts through case studies.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) Written examination (approx. 60 minutes) or b) Term paper (15 to 20 pages) or c) Term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination (approx. 20 minutes) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 54 / 333	

Bachelor's degree (1 major) Econometrics (2022)  
exchange program Business Management and Economics (2022)  
Bachelor's degree (1 major) Business Information Systems (2023)  
Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Supply, Production and Logistics Management. Material Requirements Planning			12-BPL-F-212-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This module builds on the course "Beschaffung, Produktion und Logistik - Grundlagen" ("Procurement, Production and Logistics - Basics"). After a general introduction into the domain of Material Requirements Planning, the focus is set on forecasting models, on Bill of Materials explosion calculation methods and on economic Order Quantity (EOQ) models. Within the field of EOQ models both static and dynamic models are addressed, including questions of rebates, restrictions, and determining adequate cost parameters.			
Intended learning outcomes			
The students have a deep understanding regarding the addresses models and are able to compute mathematical solutions in the domains of forecasting models, on Bill of Materials explosion and on economic Order Quantity (EOQ).			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination (approx. 20 minutes)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 56 / 333

Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Humanitarian Supply Chain Management		12-HSCM-211-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Despite the solidarity-based nature of humanitarian aid, up to 70% of the activities of humanitarian aid organizations are related to both, the design and the coordination of logistical processes. Humanitarian assistance is delivered through humanitarian supply chains, systems concerned with planning, executing, and controlling the effective, cost-efficient flow and storage of materials, goods, and related information from the point of origin to the point of consumption in order to meet the needs of the beneficiaries. While aid organizations do not operate in a traditional business environment, the requirements for managing humanitarian supply chains effectively and efficiently are fundamentally comparable to those of commercial supply chains. Similarly, humanitarian organizations often employ business managers to manage their business processes. The management of the supply chain of a humanitarian organization, therefore, requires basic business knowledge that will be addressed in this course.		
<b>Intended learning outcomes</b>		
The course will provide you with a basic understanding of factors influencing humanitarian supply chains and fundamental insights in managing them efficiently and effectively. You will learn about the different roles of humanitarian organizations and the challenges they face. Furthermore, you will be introduced to general supply chain management concepts that can also be applied in the humanitarian context, and that can provide a significant positive impact on the organization of humanitarian operations.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 58 / 333

Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Business Information Systems (2024)  
 Bachelor's degree (1 major) Econometrics (2024)  
 Bachelor's degree (1 major) Business Management and Economics (2024)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2024)  
 Bachelor's degree (1 major) Econometrics (2025)

Module title		Abbreviation
<b>Seminar: Supply, Production and Logistics Management</b>		12-BPL-FS-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
The seminar is focusing on specific problems in the areas of procurement, production, logistics or business management. Students will independently work on the respective problem and write a seminar (term) paper. Usually, this will be largely literature based with students learning how to carry out structured literature analyses and prepare systematic evaluations. In individual cases, students may also conduct empirical research of their own or further develop formal models.		
<b>Intended learning outcomes</b>		
The students will be able to work on selected problems on their own and based on the literature and structure them in a (seminar) paper.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) term paper (approx. 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or b) term paper (approx. 20 to 25 pages) Language of assessment: German and/or English		
<b>Allocation of places</b>		
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 60 / 333



Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Modern Approaches in Logistics		12-AAL-221-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
In this module theoretical models and applied problems in the field of logistics are addressed.		
<b>Intended learning outcomes</b>		
The students are gaining knowledge regarding essentials problems in the field of logistics. They are able to structure applied problems, find solution procedures and processes and compute solutions to applied problems.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) Written examination (approx. 60 minutes) or b) Term paper (15 to 20 pages) or c) Term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination (approx. 20 minutes) or e) Portfolio (15 to 20 pages) Language of assessment: German and/or English Assessment offered: yearly, to be announced creditable for bonus		
<b>Allocation of places</b>		
30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
Module can be taught in form of E Learning course, seminar, block event etc.		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: no courses offered		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 62 / 333

Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title		Abbreviation
Foundations of transport logistics		12-GT-221-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
The module focuses on basic models in the field of transport logistics. The contents are trained via mathematical exercises.		
<b>Intended learning outcomes</b>		
The students gain knowledge regarding essential models in the field of transport logistics. They are able to compute solutions mathematically.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) Written examination (approx. 60 minutes) or b) Term paper (15 to 20 pages) or c) Term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination (approx. 20 minutes) or e) Portfolio (15 to 20 pages) Language of assessment: German and/or English Assessment offered: yearly, to be announced creditable for bonus		
<b>Allocation of places</b>		
30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
Module can be taught in form of E Learning course, seminar, block event etc.		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: no courses offered		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Business Information Systems (2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 64 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title		Abbreviation
Digital Science 1		12-DS1-222-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) Written examination (approx. 60 minutes) or</p> <p>b) Term paper (approx. 15 pages) or</p> <p>c) Term paper (10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 66 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Digital Science 2		12-DS2-222-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) Written examination (approx. 60 minutes) or</p> <p>b) Term paper (approx. 15 pages) or</p> <p>c) Term paper (10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 68 / 333



Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Digital Science 3		12-DS3-222-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) Term paper (approx. 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>b) Term paper (20 to 25 pages)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 70 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Digital Science 4		12-DS4-222-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) Term paper (approx. 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>b) Term paper (20 to 25 pages)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 72 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Strategic and Innovation Management		12-IM-212-m01
Module coordinator		Module offered by
holder of the Chair of Entrepreneurship and Strategy		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The course will provide students with an overview of essential topics of innovation management. Particular emphasis will be on the application of theoretical concepts to practical examples and cases. The course will develop the innovation process starting with the idea and ending with the market entry of an innovation. The course will consist of two core elements: 1. "Creating Value": how can companies create something new? and 2. "Profiting from Value": how can companies profit from innovations? The course will use practical examples from numerous industries such as world-class restaurants, music, consumer goods, electricity or the software industry.</p>		
Intended learning outcomes		
<p>At the end of the module students are able to understand:</p> <ul style="list-style-type: none"> <li>• The importance of innovations</li> <li>• The sources of innovations</li> <li>• The New Product Development process</li> <li>• The roles in the innovation process</li> <li>• The importance of intellectual property rights</li> <li>• How innovations diffuse in the market</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or  b) term paper (as individual or group work; approx. 10 pages each person) or  c) oral examination in groups of up to 3 candidates (approx. 10 minutes each candidate)  Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Master's degree (1 major) China Business and Economics (2021)  Bachelor's degree (1 major) Business Information Systems (2021)  Bachelor's degree (1 major) Econometrics (2021)  Bachelor's degree (1 major) Business Management and Economics (2021)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 74 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Master's degree (1 major) Media Entertainment (2022)  
 Master's degree (1 major) Psychology of digital media (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Entrepreneurship		12-EPS-212-m01
Module coordinator		Module offered by
holder of the Chair of Entrepreneurship and Strategy		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Description:</p> <p>The course introduces students to the basics of entrepreneurial self-employment. In addition to discussing theoretical concepts covering the definition, creation and performance of new ventures, the course will also discuss methods and instruments for a potential entrepreneurial career. Several content areas of start-up planning are being covered during the course of the lecture including team compilation, business model creation and financing.</p> <p>Contents of the course:</p> <ol style="list-style-type: none"> <li>1. Introduction to entrepreneurship</li> <li>2. Human resources in start-ups</li> <li>3. Opportunity analysis</li> <li>4. Business modelling</li> <li>5. Entrepreneurship in the digital industry</li> <li>6. Business planning</li> <li>7. Finance</li> <li>8. Marketing in start-ups</li> </ol>		
Intended learning outcomes		
<p>After completing the module "Entrepreneurship", the students should be able to</p> <ol style="list-style-type: none"> <li>(i) describe and problematize the concept of entrepreneurship and the entrepreneurial perspective;</li> <li>(ii) describe and analyze the entrepreneurial process, its drivers, characteristics and context;</li> <li>(iii) apply theories within the entrepreneurship field to real life situations;</li> <li>(iv) take initiatives and independently develop a business idea and use knowledge gained from earlier courses in business administration in order to develop this idea in a business plan sketch;</li> <li>(v) plan human resources and marketing in a start-up.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>V (2) + Ü (2)</p> <p>Module taught in: German and/or English</p>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (as individual or group work; approx. 10 pages each person) or</p> <p>c) oral examination in groups of up to 3 candidates (approx. 10 minutes each candidate)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		



<b>Teaching cycle</b>
Teaching cycle: winter semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022) Master's degree (1 major) Media Entertainment (2022) Master's degree (1 major) Psychology of digital media (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Research Seminar		12-RES-211-m01
Module coordinator		Module offered by
holder of the Chair of Entrepreneurship and Strategy		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Students develop seminar papers on varying topics in the domain of entrepreneurship, strategy, and innovation and present the key insights from their work.		
Intended learning outcomes		
<p>Educational aims</p> <ul style="list-style-type: none"> <li>• Raise students' awareness of research positioning and theoretical modelling</li> <li>• Familiarize students with systematic literature search</li> <li>• Enable students to develop a well-structured, academic manuscript</li> </ul> <p>Learning outcomes</p> <p>On successful completion of this module students will be able to:</p> <ul style="list-style-type: none"> <li>• Formulate an adequate research question</li> <li>• Effectively search the literature</li> <li>• Structure and write-down an academic manuscript</li> <li>• Present and explain their research outcomes in class</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Term paper (10 to 15 pages) and presentation (in groups of up to three candidates, approx. 10 minutes per candidate)		
Language of assessment: German and/or English		
Allocation of places		
<p>15 places.</p> <p>Should the number of applications exceed the number of available places, places will be allocated as follows:</p> <p>(1) Applicants who have already achieved a total of 90 ECTS credits or more will be given preferential consideration.</p> <p>(2) When places are allocated in accordance with (1) and the number of applications exceeds the number of available places, places will be allocated according to the average grade of assessments taken so far; among applicants with the same average grade, places will be allocated by lot.</p>		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		

Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Seminar: Business Simulation</b>		12-BUS-211-m01
Module coordinator		Module offered by
holder of the Chair of Entrepreneurship and Strategy		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This action-oriented module complements the lecture “Strategic and Innovation Management” (12-IM). In teams of up to four students, student compete in a business simulation that covers critical elements of managerial decision making. Participants act as a board of directors to develop the business by making decisions related to strategy, finance, market, operations, staffing, and innovation. This provides a unique opportunity to directly apply and critically reflect topics discussed in the classroom, while working in a team.</p>		
Intended learning outcomes		
<p><i>Educational aims</i></p> <ul style="list-style-type: none"> <li>• Raise students’ situational awareness in managerial decision making</li> <li>• Promote students’ ability to make informed managerial decisions in complex situation</li> <li>• Sensitize students for the need to anticipate competitive actions and reactions</li> </ul> <p><i>Learning outcomes</i></p> <p>On successful completion of this module students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand how management theories can be applied in ‘real-life’ decision making scenarios</li> <li>• Understand the interconnectivity of managerial decisions in different areas of a company, e.g., marketing, finance, and innovation</li> <li>• Make managerial group decisions based on anticipated competitor behavior</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Term paper (10 to 15 pages) and presentation (in groups of up to three candidates, approx. 10 minutes per candidate)		
Language of assessment: German and/or English		
Allocation of places		
<p>15 places. WB4</p> <p>Should the number of applications exceed the number of available places, places will be allocated as follows:</p> <p>(1) Applicants who have already achieved a total of 90 ECTS credits or more will be given preferential consideration.</p> <p>(2) When places are allocated in accordance with (1) and the number of applications exceeds the number of available places, places will be allocated according to the average grade of assessments taken so far; among applicants with the same average grade, places will be allocated by lot.</p>		
Additional information		
--		
Workload		
150 h		

<b>Teaching cycle</b>
Teaching cycle: each semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>

Module title		Abbreviation
<b>Seminar: Business Plan</b>		12-BPS-211-m01
Module coordinator		Module offered by
holder of the Chair of Entrepreneurship and Strategy		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Students work in teams of up to three students to develop a business model and a business plan for an own business idea or a notional one.		
Intended learning outcomes		
<p><i>Educational aims</i></p> <ul style="list-style-type: none"> <li>• Clarify the role of business models and business plans</li> <li>• Clarify theoretical concepts related to business models and business plans</li> <li>• Enable students to critically appraise alternative approaches to business modelling and business planning</li> <li>• Enable students to evaluate the boundaries and risks of business modelling and business planning</li> </ul> <p><i>Learning outcomes</i></p> <p>On successful completion of this module you will be able to:</p> <ul style="list-style-type: none"> <li>• Assess the role of business models and business plans for startups and established companies</li> <li>• Make judgements about the design of business models and business plans</li> <li>• Create and evaluate concepts related to business models and business plans</li> <li>• Systematically choose between different routes of action</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Term paper (10 to 15 pages) and presentation (in groups of up to three candidates, approx. 10 minutes per candidate) Language of assessment: German and/or English		
Allocation of places		
15 places. WB4 Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Applicants who have already achieved a total of 90 ECTS credits or more will be given preferential consideration. (2) When places are allocated in accordance with (1) and the number of applications exceeds the number of available places, places will be allocated according to the average grade of assessments taken so far; among applicants with the same average grade, places will be allocated by lot.		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 82 / 333

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Supply Chain Management			12-SCM-F-212-m01
Module coordinator		Module offered by	
holder of the Chair of Logistics and Quantitative Methods		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The seminar "Supply Chain Management" will introduce students to tactical and operational planning problems of supply chain management. It will discuss the wording of these as formal models and, with the help of a continuous case study, will acquaint students with the implementation of these models in SAP APO.			
Intended learning outcomes			
After completing this seminar students can (i) apply selected and applied quantitative models for procurement, production, sales and supply chain management; (ii) face the practical problems when using real data to feed models; (iii) understand the challenges to reach a coordinated decision in a company.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 84 / 333



Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Seminar: Logistics & Supply Chain Management			12-LSCM-212-m01
Module coordinator		Module offered by	
holder of the Chair of Logistics and Quantitative Methods		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
In this module, students will learn, on a case-by-case basis, how companies successfully implemented quantitative planning methods to optimise their processes in logistics and supply chain management.			
Intended learning outcomes			
After completing this module students can			
1. understand mathematical models to solve practical problems in logistics and supply chain management,			
2. evaluate and critique the results of such models, and			
3. understand, describe, and evaluate the limits of such models.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written elaboration (approx. 10 to 15 pages) and presentation (approx. 10 minutes), (weighted 2:1)			
Language of assessment: German and/or English			
Allocation of places			
20 places.			
Should the number of applications exceed the number of available places, places will be allocated as follows:			
(1) Applicants who have already achieved a total of 90 ECTS credits or more will be given preferential consideration.			
(2) When places are allocated in accordance with (1) and the number of applications exceeds the number of available places, places will be allocated according to the average grade of assessments taken so far; among applicants with the same average grade, places will be allocated by lot.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021)			
Bachelor's degree (1 major) Business Information Systems (2021)			
Bachelor's degree (1 major) Economathematics (2021)			
Bachelor's degree (1 major) Business Management and Economics (2021)			
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)			
Bachelor's degree (1 major) Economathematics (2022)			
exchange program Business Management and Economics (2022)			
Bachelor's degree (1 major) Business Information Systems (2023)			
Bachelor's degree (1 major) Economathematics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 86 / 333

Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Toyota Supply Chain Management			12-MDM-212-m01
Module coordinator		Module offered by	
holder of the Chair of Logistics and Quantitative Methods		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>Toyota is still considered to be a pioneer in the field of automobile production although it has recently had to cope with difficulties (e.g. recalls, production shortfalls caused by natural disasters) and had lost its dominant position in the automotive market to General Motors and Volkswagen—at least temporarily. The development of concepts, such as Lean Manufacturing, Total Quality Management, Kaizen, Kanban, etc., can be attributed completely or at least partially to Toyota. These concepts integrated in the so-called Toyota Production System (TPS) are now considered standard elements of modern production systems and are standard repertoire in business management. However, with a focus on the management of production systems, they only represent one of the cornerstones of the successful Toyota model. Toyota currently operates extremely efficient global supply chains with international production sites (in Japan, USA, France, Brazil, Argentina, Malaysia, Pakistan, etc.), globally distributed suppliers and a worldwide dealer network. Toyota implemented not only efficient production (with TPS), but also sustained efficient design and coordination of globally distributed value-added activities. To accomplish this, Toyota has consistently developed its management philosophy and the principles underlying TPS and integrated these in the "Toyota supply chain". While we were able to learn from Toyota in the past as to how production systems can be designed, today we can learn from Toyota as to how complex global supply chains in the automotive industry - but also in other industries - should be designed and coordinated. Notably its planning principles are - despite the greater complexity - easy to understand, simple to implement and are based on simple 'ground rules'. The aim of this seminar is to learn from the Toyota supply chain.</p>			
Intended learning outcomes			
<p>Drawing on current cutting-edge research, students are enabled to critically and independently analyze current research questions and to learn and apply research methods. The seminar style of the course teaches them to present their own seminar papers and research both in written and in oral form. Students are enabled to critically analyze and discuss the work of their peers.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>written elaboration (approx. 10 to 15 pages) and presentation (approx. 10 minutes), (weighted 2:1) Language of assessment: German and/or English</p>			
Allocation of places			
<p>20 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Applicants who have already achieved a total of 90 ECTS credits or more will be given preferential consideration. (2) When places are allocated in accordance with (1) and the number of applications exceeds the number of available places, places will be allocated according to the average grade of assessments taken so far; among applicants with the same average grade, places will be allocated by lot.</p>			
Additional information			
--			
Workload			
150 h			

<b>Teaching cycle</b>
Teaching cycle: after announcement
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022)

Module title		Abbreviation
Microeconomics 2		12-Mik2-G-212-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Cost minimisation</li> <li>2. Profit maximisation and the supply function</li> <li>3. Short-run market equilibrium</li> <li>4. Long-run market equilibrium</li> <li>5. Government interventions</li> <li>6. Monopoly</li> <li>7. Pricing strategies with market power</li> <li>8. Introduction to game theory</li> <li>9. Strategic interaction and oligopoly</li> </ol>		
<b>Intended learning outcomes</b>		
<p>The aim of the course is to understand how markets work. We will investigate the behavior of a company in different market structures; namely perfectly competitive markets, monopoly markets and all forms in between, the so-called oligopoly markets. Ultimately, we are interested in whether the market results from a social point of view is desirable. Using our models, we will also try to analyze the consequences of different government interventions. The knowledge that students gain in this course will be in their future course of studies of benefits to them. In almost all business and economics lectures markets play a role. It also discussed in detail how economic actors make their decisions. Students will thus learn the important building blocks of economic thought. This knowledge will also be useful in the workplace and even in their private lives.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>written examination (approx. 60 minutes) Language of assessment: German and/or English</p>		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: winter semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
<p>Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 90 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title		Abbreviation
Games and Strategies		12-S&W1-F-212-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>Static games with complete information <ul style="list-style-type: none"> <li>Concept of a game</li> <li>Solution concepts and the Nash equilibrium</li> <li>Continuous strategy sets</li> <li>Nash equilibrium in mixed strategies</li> </ul> </li> <li>Dynamic games with complete information <ul style="list-style-type: none"> <li>Subgame perfect Nash equilibrium</li> <li>Repeated games</li> </ul> </li> <li>Static games with incomplete information: Bayesian Nash equilibrium</li> <li>Dynamic games with incomplete information <ul style="list-style-type: none"> <li>Perfect Bayesian Nash equilibrium</li> <li>Signaling games</li> </ul> </li> </ol>		
Intended learning outcomes		
<p>Students which complete this course will be able to</p> <p>(i) explain different equilibrium concepts (Nash equilibrium, subgame perfect equilibrium, bayesian equilibrium, perfect bayesian equilibrium);</p> <p>(ii) explain for which kind of strategic situation each of these equilibrium concepts were developed;</p> <p>(iii) apply these concepts to simple realistic strategic situations;</p> <p>(iv) choose the appropriate equilibrium concept which fits best to a given strategic situation.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		



Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Competition Policy		12-S&W2-F-212-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Content:</p> <p>German and European Competition Policy illustrated by real world cases of the Competition Protection Office.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. History of economic thought on competition and mission statements</li> <li>2. Overview of German and European competition law</li> <li>3. Fundamentals of industrial economics</li> <li>4. Classic cartels</li> <li>5. Tacit collusion</li> <li>6. Horizontal mergers</li> <li>7. Joint ventures</li> <li>8. Abuse of dominant positions: price level</li> <li>9. Abuse of dominant positions: price discrimination</li> <li>10. Vertical restraints</li> <li>11. Vertical mergers</li> </ol> <p>Reading:</p> <p>Schulz: Wettbewerbspolitik, Tübingen.</p>		
Intended learning outcomes		
<p>After completing the course students are able to</p> <p>(i) recognize the potential of lessening competition due to certain practices by firms;</p> <p>(ii) argue by using results from industrial economics why certain practices hinder competition;</p> <p>(iii) understand decisions of the Bundeskartellamt and of the European Commission and evaluate such decisions from an economic point of view.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>V (3) + Ü (2)</p> <p>Module taught in: German and/or English</p>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 to 90 minutes) or</p> <p>b) term paper (approx. 10 pages) and presentation (approx. 15 minutes); (weighted 2:1)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		

<b>Teaching cycle</b>
Teaching cycle: winter semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Economics of Regulation		12-S&W <sub>3</sub> -F-212-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Repetition of micro skills <ul style="list-style-type: none"> <li>• Definitions and basic concepts</li> <li>• Market analysis</li> </ul> </li> <li>2. Introduction to regulation theory <ul style="list-style-type: none"> <li>• The regulatory process</li> <li>• The natural monopoly</li> <li>• Optimal pricing of natural monopoly</li> <li>• Privatisation</li> </ul> </li> <li>3. Practice of economic regulation <ul style="list-style-type: none"> <li>• Past and recent experience in Europe and around the world</li> <li>• Analysis of selected naturally monopolistic markets</li> </ul> </li> </ol> <p>This course will be taught in English.</p>		
Intended learning outcomes		
<p>The aim of this course is to provide the students with an understanding of the economic analysis that underpins competition policy and regulatory policy towards network utilities and to provide them with some institutional background.</p> <p>Upon successful completion of this module the students will</p> <ol style="list-style-type: none"> <li>(i) acquire an understanding of the underlying reasons why some markets cannot be made competitive;</li> <li>(ii) acquire a knowledge of the economic principles that lie behind the application of competition policy and utility regulation;</li> <li>(iii) develop an understanding of the ways in which economic analysis can positively inform competition policy and utility regulation, and the limitations of economic analysis in this context;</li> <li>(iv) learn from the practical experiences of market regulation and deregulation of the last 20-30 years.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 10 pages) and presentation (approx. 15 minutes), (weighted 2:1) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		

<b>Teaching cycle</b>
Teaching cycle: summer semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Seminar: Competition and Strategy</b>		12-S&W-FS-212-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This course covers selected topics from the field of industrial economics. Students will be expected to independently work on a topic, submit a written piece of work and present their findings orally.		
<b>Intended learning outcomes</b>		
Students are able to independently investigate and classify scientific publications on their relevance to a given theme. In addition, they are able to present the results orally and in writing by conventional scientific standards.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (approx. 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) Language of assessment: German and/or English		
<b>Allocation of places</b>		
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)		

Module title			Abbreviation
Industrial Organization			12-IIO-212-m01
Module coordinator		Module offered by	
holder of the Chair of Industrial Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>Description:</p> <p>The purpose of this course is to provide an introduction to the main concepts and analytical tools of the theory of industrial organisation. Industrial organisation studies examine how firms interact and compete with each other in the market. The focus is predominantly on markets characterised by imperfect competition (so-called oligopoly competition), i. e. markets where firms can exercise market power.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"><li>1. Games and strategy</li><li>2. Oligopoly</li><li>3. Product differentiation</li><li>4. Dynamic and repeated games</li><li>5. Collusion</li><li>6. Market structure, entry and exit</li><li>7. Mergers</li><li>8. Vertical relations</li><li>9. Strategic behaviour by incumbent firms</li></ol> <p>This course will be taught in English.</p>			
Intended learning outcomes			
<p>The purpose of this course is to provide an introduction to the main concepts and analytical tools of the theory of industrial organization. Industrial organization studies how firms interact and compete with each other in the market. The focus is predominantly on markets characterized by imperfect competition, i.e. markets where firms can exercise market power. Students who complete this course will be able to comprehend and use simple game theoretic models of oligopoly competition. By using these models, they will be able to understand and suggest managerial policies. They will be able to comment on governmental remedies in case of market failure within the context of the existing competition laws.</p> <p>This course will be taught in English.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 10 pages) and presentation (approx. 15 minutes); (weighted 2:1) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			

<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: winter semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)



Module title		Abbreviation
Integrated Business Processes		12-GP-G-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Information Systems		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This course is aimed at students of Wirtschaftsinformatik (Business Information Systems) and Wirtschaftswissenschaft (Business Management and Economics) interested in the topic. The course is divided up into two parts. In the theoretical part, students will acquire the necessary theoretical knowledge that will serve as a basis for the practical part. The practical exercise will present students with an opportunity to apply their newly acquired knowledge by working with an SAP S4/HANA on case studies on the model company Almika. In this context, the human resources, purchasing, sales, service, project management and finance departments will be dealt with.</p> <p>The course will introduce students to business processes of an ERP system (Enterprise Resource Planning) using the example of SAP S/4HANA. In addition to the basic principles, students will also become familiar with the processes and functionalities.</p>		
Intended learning outcomes		
<p>After completing the course, the students will be able to</p> <ol style="list-style-type: none"> <li>1. reflect technical principles and operational models of ERP systems,</li> <li>2. understand the functionality of ERP systems and</li> <li>3. perform and understand business processes within the ERP system SAP Business ByDesign.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 15 pages) or</p> <p>c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1)</p> <p>creditable for bonus</p>		
Allocation of places		
<p>15 places. (1) The number of places is not restricted for students of the Bachelor's degree subject Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits). (2) Additional places will be allocated to students of other subjects provided there is enough capacity. These additional places will be allocated by lot among all applicants irrespective of their subjects. (3) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (4) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 101 / 333

**Module appears in**

Bachelor's degree (1 major) Computer Science (2015)  
 Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Master's degree (1 major) Media Communication (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Master's degree (1 major) China Business and Economics (2016)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Master's degree (1 major) Media Communication (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Computer Science (2017)  
 Master's degree (1 major) Media Communication (2018)  
 Bachelor's degree (1 major) Computer Science (2019)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Master's degree (1 major) Media Communication (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Forward and Reverse Business Engineering		12-FRBE-F-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Information Systems		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>"Business Engineering" refers to the method and model-based design theory for companies in the information age. "Forward" refers to design methods (such as situation analysis, requirements analysis and business process modelling) that help implement a new solution. "Reverse" refers to approaches (such as the use and process analysis) that make it possible to improve or re-design existing structures and processes. Market requirements and technological innovation potential are typical reasons for the continuous transformation of a company. The resulting change needs to be implemented into the organisational structure, business processes and information systems.</p> <p>The course traces the implementation cycle of enterprise software from the point of view of a member of a project team. In addition to acquainting students with the theoretical basis of adaptation, the course will also discuss examples from practical projects.</p>		
Intended learning outcomes		
<p>The "Forward und Reverse Business Engineering" module aims to achieve the following learning outcomes:</p> <ol style="list-style-type: none"> <li>1. Students acquire profound expertise in the process of adapting business software libraries and learn how to apply this knowledge to practical scenarios.</li> <li>2. Mastery of forward engineering methods such as situation analysis, requirements analysis, process modeling, and business blueprinting, as well as reverse engineering methods like reverse business engineering and their practical implementation in corresponding tools.</li> <li>3. Students develop interdisciplinary methodological skills that enable them to independently and flexibly tackle complex challenges. This includes, in particular, the application of the aforementioned methods of forward and reverse engineering</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) creditable for bonus		
Allocation of places		
50 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group. (4) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (5) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
--		

<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: winter semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Computer Science (2015)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Master's degree (1 major) Media Communication (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Master's degree (1 major) China Business and Economics (2016)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Master's degree (1 major) Media Communication (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Computer Science (2017)</p> <p>Master's degree (1 major) Media Communication (2018)</p> <p>Bachelor's degree (1 major) Computer Science (2019)</p> <p>Master's degree (1 major) China Business and Economics (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Master's degree (1 major) Media Communication (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)</p> <p>exchange program Business Management and Economics (2022)</p> <p>Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>

Module title		Abbreviation
Seminar: Information Systems		12-Wiinf-FS-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Information Systems		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this course, students will acquire important knowledge and skills that will enable them to prepare a well-structured term paper and to present the results of their work with the help of relevant topics in the fields of information systems and enterprise systems.</p> <p>Reading: will vary according to topic</p>		
Intended learning outcomes		
<p>After completing the course "Wirtschaftsinformatik-Seminar", students will be able to</p> <ol style="list-style-type: none"> <li>1. understand the fundamentals of scientific literature reviews;</li> <li>2. integrate elaborated content in a scientific thesis;</li> <li>3. create presentations independently.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>term paper (approx. 20 pages) and presentation (approx. 20 minutes); (weighted 2:1)</p> <p>Language of assessment: German and/or English</p> <p>creditable for bonus</p>		
Allocation of places		
<p>15 places.</p> <p>Should the number of applications exceed the number of available places, places will be allocated as follows:</p> <p>(1) Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group. (4) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (5) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) China Business and Economics (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 105 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Web Programming		12-WebP-F-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Information Systems		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The "Web Programming" course combines the theoretical foundations of web programming from both backend and frontend architecture with the practical application of various techniques and methods. The course emphasizes a strong practical approach, with homework and exercises being consistently present. It is aimed primarily at beginners but also accommodates students with programming experience. Our goal is to encourage programming through the course, applicable to students with or without prior knowledge.</p> <p>Course Structure:</p> <ul style="list-style-type: none"> <li>Fundamental understanding of databases, data modeling, and backend development (ERM, SQL/NoSQL DB, Python)</li> <li>Understanding the basics of frontend development and the application of HTML, CSS, and JavaScript</li> <li>Distinguishing between programming languages and frameworks (SQL, Python, Flask, HTML, CSS, JavaScript, React) in frontend and backend</li> <li>Recognizing and understanding application architecture</li> <li>Visualizing data through practical application of the D3.js library</li> <li>Recognizing and understanding design patterns and current trends</li> <li>Integrating backend and frontend by implementing a Flask web application</li> <li>Strengthening modeling and programming skills through regular exercises</li> </ul>		
Intended learning outcomes		
<p>The "Web Programming" module aims to achieve the following learning outcomes:</p> <ol style="list-style-type: none"> <li><b>Fundamentals of Web Technologies:</b> Students acquire basic knowledge of HTML, CSS, and JavaScript to develop simple web applications. They also learn to distinguish between various programming languages and frameworks such as Python, Flask, and React, gaining insights into different aspects of web development and their applications.</li> <li><b>Integration of Frontend and Backend:</b> Through practical projects, students gain a deep understanding of the connection between frontend and backend. They analyze and implement data modeling, databases (SQL/NoSQL), and server-side programming, combining these with user interfaces.</li> <li><b>Development of User-Centered Web Applications:</b> Students use their knowledge of web technologies to create user-friendly and functional web applications. There is a strong focus on technical and visual implementation. Regular exercises support the deepening and application of the acquired knowledge.</li> <li><b>Evaluation of Web Trends:</b> Participants critically assess current and future trends in web development, particularly in the areas of usability and new web design techniques. They discuss their impact on practice, recognizing and understanding design patterns and current trends.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or  b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or  c) completion of programming exercises (approx. 20 hours) and written examination (approx. 60 minutes), weighted 1:1</p>		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 107 / 333



Language of assessment: German and/or English
<b>Allocation of places</b>
--
<b>Additional information</b>
--
<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: each semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>exchange program Business Management and Economics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>



Module title		Abbreviation
E-Business		12-Ebus-F-212-m01
Module coordinator		Module offered by
holder of the Chair of Information Systems Engineering		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
E-business is a comprehensive, digital processing of business transactions between private and public enterprises as well as institutions and their clients on global public and private networks such as the internet. Precisely because euphoria for e-business has waned considerably in recent years, a lot of emphasis is now being placed on introducing such solutions in a user-oriented way. This lecture will first discuss the supporting economic theories and will then describe and analyse individual solutions such as e-procurement, e-shop, e-marketplace and e-community in detail.		
Intended learning outcomes		
The module provides students with knowledge about: (i) E-Procurement (ii) E-Shop (iii) E-Marketplace (iv) E-Community		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 pages) and presentation (approx. 10 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 10 minutes per candidate) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 109 / 333

Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)  
 Master's degree (1 major) Media Entertainment (2022)  
 Master's degree (1 major) Psychology of digital media (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation
Advanced Web Engineering			12-AWE-152-m01
Module coordinator		Module offered by	
holder of the Chair of Information Systems Engineering		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The module provides an introduction to the development of web-based applications based on current development systems, software components and frameworks.			
Intended learning outcomes			
- Understand the technological foundations of web applications			
- Designing the architecture and data model of an application system			
- Implementing with the help of SW components and frameworks			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or			
b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or			
c) completion of programming exercises (approx. 20 hours) and written examination (approx. 60 minutes), weighted 1:1			
Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015)			
Bachelor's degree (1 major) Economathematics (2015)			
Bachelor's degree (1 major) Business Information Systems (2015)			
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)			
Bachelor's degree (1 major) Business Information Systems (2016)			
Bachelor's degree (1 major) Economathematics (2017)			
Bachelor's degree (1 major) Business Information Systems (2019)			
Bachelor's degree (1 major) Business Management and Economics (2019)			
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 111 / 333

Bachelor's degree (1 major) Business Information Systems (2020)  
Master's degree (1 major) China Business and Economics (2021)  
Bachelor's degree (1 major) Business Information Systems (2021)  
Bachelor's degree (1 major) Econometrics (2021)  
Bachelor's degree (1 major) Business Management and Economics (2021)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
Bachelor's degree (1 major) Econometrics (2022)  
exchange program Business Management and Economics (2022)

Module title		Abbreviation
E-Business Project		12-EBP-152-m01
Module coordinator		Module offered by
holder of the Chair of Information Systems Engineering		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
In this course, students will acquire the technical, organisational and social skills necessary for a real e-business. The principal distinguishing feature of this course is its high practical relevance. The project work - evolving from the conceptual design to status presentations and final report - will be completed in small groups.		
Intended learning outcomes		
<ul style="list-style-type: none"> <li>• Understand challenges of real e-business organisations</li> <li>• Apply the acquired knowledge to solve a specific, real problem</li> <li>• Present the developed results</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 20 pages) or c) term paper (approx. 10 to 20 pages) and presentation (approx. 15 minutes), weighted 2:1 or d) entirely or partly computerised written examination (approx. 60 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Master's degree (1 major) China Business and Economics (2016) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 113 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Business Intelligence			12-BIF-211-m01
Module coordinator		Module offered by	
holder of the Chair of Information Systems Engineering		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Technologies and methods of "Business Intelligence" are aimed at supporting managerial decision-making processes by analyzing and presenting large amounts of data. The module provides an overview of the corresponding analytical information systems, their technical architecture and areas of application. In the practical exercises, the concepts taught are practically demonstrated and applied by the example of a state-of-the-art BI software suite.			
Intended learning outcomes			
<ul style="list-style-type: none"><li>Understand the technological foundations of data warehouses and BI tools.</li><li>Analyse and design conceptual models for analytical information systems.</li><li>Apply real-world BI software products to analyse large structured data sets.</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 20 pages) or c) term paper (10 to 20 pages) and presentation (approx. 15 minutes); (weighted 2:1) or d) entirely or partly computerised written examination (approx. 60 minutes) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: winter semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 115 / 333

Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)



Module title		Abbreviation
Programming for Management Students		12-PFM-192-m01
Module coordinator		Module offered by
holder of the Chair of Business Analytics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In the context of digitization, dealing with program code is regularly of great importance for economists, e.g. in automated data analysis or computer-aided modeling of value creation processes. Likewise, in digital transformation projects, it is of great importance to understand how a programmer thinks and implements the tasks assigned to him. This facilitates communication as well as the actual development, adaptation and debugging of the project.</p> <ul style="list-style-type: none"> <li>• Introduction to the basics of algorithms</li> <li>• Programmatic constructs and structures</li> <li>• Data structures</li> <li>• Concepts of object-oriented programming</li> <li>• Practical examples and exercises</li> </ul>		
Intended learning outcomes		
<p>The lecture teaches the basics of the programmer. At the end of the course, the participants should be able to understand simple Python programs and are able to independently implement simple small programming projects in practice with Python.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) Written examination (approx. 60 minutes) or  b) Oral examination in groups of up to 3 candidates (approx. 10 minutes per candidate) or  c) Programming exercises (approx. 20 hours total) and written examination (approx. 60 minutes); (weighted 1:1) or  d) entirely or partly computerised written examination (approx. 60 minutes)  Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)  Bachelor's degree (1 major) Economathematics (2015)  Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p>		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 117 / 333

Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Data Management and Analysis			12-DM-F-202-m01
Module coordinator		Module offered by	
holder of the Chair of Business Analytics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The module teaches on the one hand basics and concepts of modeling data and querying and manipulating databases. Additionally, fundamentals of data analysis as well as data analysis processes are introduced.			
Focal points are:			
<ul style="list-style-type: none"><li>• Fundamentals and application of semantic data modelling</li><li>• Fundamentals and application of the relational data model</li><li>• Fundamentals and application of data query languages</li><li>• Hypothesis-driven and model-building data analysis</li><li>• Data analysis processes and their comparison</li><li>• Supervised and unsupervised learning processes</li></ul>			
Intended learning outcomes			
Upon completion of the module students are able <ul style="list-style-type: none"><li>• to design good conceptual and logical data models;</li><li>• to transform conceptual data models into physical data schemas;</li><li>• to formulate complex database queries;</li><li>• to design different applications with databases</li><li>• perform and interpret hypothesis testing on real data</li><li>• understand the basics of supervised and unsupervised machine learning</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) Written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 pages) and presentation (approx. 10 minutes); (weighted 2:1) or d) oral examination in groups (groups of up to 3; approx. 10 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
50 places. (1) No restrictions with regard to available places for Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits). (2) Additional places will be allocated to students of other subjects provided there is enough capacity. These additional places will be allocated by lot among all applicants irrespective of their subjects. (3) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (4) A waiting list will be maintained and places re-allocated by lot as they become available. (4) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			

<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: summer semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>exchange program Business Management and Economics (2022)</p>

Module title		Abbreviation
Planning and Decision Making in Business Information Systems		12-PEBI-211-m01
Module coordinator		Module offered by
holder of the Chair of Business Analytics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Quantitative methods form a central basis for business planning and decision-making. From the information systems perspective, these methods must be integrated into IT systems and processes. The lecture presents fundamental concepts and methods from the areas of decision theory and analysis, mathematical optimization and discrete Markov chains. The methods are applied in the exercise on the basis of examples and solved computer-aided.		
Intended learning outcomes		
<ul style="list-style-type: none"> <li>• Normative and empirical decision theory</li> <li>• Fundamentals of linear programming</li> <li>• Sensitivity analysis</li> <li>• Discrete Optimization</li> <li>• Discrete Markov chains</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) Written examination (approx. 60 minutes) or b) oral examination (20 to 30 minutes) or c) exercises (approx. 6 pages) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Econometrics (2017) Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 121 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
Bachelor's degree (1 major) Econometrics (2022)  
exchange program Business Management and Economics (2022)

Module title		Abbreviation
Primer in Data Science		12-PDS-211-m01
Module coordinator		Module offered by
holder of the Chair of Business Analytics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Data science is concerned with extracting knowledge and valuable insights from data assets. It is an emerging field that is currently in high demand in both academia and industry. This course provides a practical introduction to the full spectrum of data science techniques spanning data acquisition and processing, data visualization and presentation, creation and evaluation of machine learning models.</p> <p>The course focuses on the practical aspects of data science, with emphasis on the implementation and use of the above techniques. Students will complete programming homework assignments that emphasize practical understanding of the methods described in the course.</p>		
Intended learning outcomes		
<p>Topics covered include:</p> <ul style="list-style-type: none"> <li>• Data acquisition and processing</li> <li>• graph and network models</li> <li>• text analysis</li> <li>• working with geospatial data</li> <li>• Usage of machine learning models (supervised and unsupervised)</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or b) oral examination (approx. 20 to 30 minutes) or c) exercises (approx. 6 pages) Language of assessment: German and/or English creditable for bonus</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015)</p>		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 123 / 333

Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)



Module title			Abbreviation
Business Strategy for Information and Network Industries			12-BSINI-212-m01
Module coordinator		Module offered by	
holder of the Chair of Industrial Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Outline of syllabus: 1. Pricing of information goods <ul style="list-style-type: none"><li>market segmentation methods</li><li>digital rights management and piracy</li><li>alternative monetisation strategies</li></ul> 2. Network effects <ul style="list-style-type: none"><li>consumer demand in markets with network effects, rational expectations</li><li>monopoly pricing</li><li>competition in markets with network effects</li><li>compatibility and multi-homing: dynamic competition</li></ul> 3. Competition in markets with switching costs4. Two (multi)-sided markets and platforms <ul style="list-style-type: none"><li>monopoly pricing in platform markets</li><li>competition in platform markets: non-price strategies</li></ul>			
The course will be taught in English.			
Intended learning outcomes			
After successful completion of this class, the students should be familiar with issues arising in many of the increasingly important hi-tech industries. They will be able to comment on emerging selling mechanisms for books, music and video. They will be able to explain the underlying logic for observed pricing patterns for software products, social media sites and the services found in the so called sharing economy. They will not only be able to understand observed behavior in information goods markets, industries which exhibit network effects and platform markets but will be able argue for new strategies in light of the specific features a market/product may exhibit.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 10 pages) and presentation (approx. 15 minutes); (weighted 2:1) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 125 / 333

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Master's degree (1 major) China Business and Economics (2021)  
Bachelor's degree (1 major) Business Information Systems (2021)  
Bachelor's degree (1 major) Econometrics (2021)  
Bachelor's degree (1 major) Business Management and Economics (2021)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
Bachelor's degree (1 major) Econometrics (2022)  
exchange program Business Management and Economics (2022)  
Bachelor's degree (1 major) Business Information Systems (2023)  
Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Computational Economics		12-CE-212-m01
Module coordinator		Module offered by
holder of the Chair of Public Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module introduces students to the numerical implementation of economic models. It consists of three main parts:</p> <ol style="list-style-type: none"> <li>1. The programming language FORTRAN 90</li> <li>2. Numerical solution methods</li> <li>3. Economic applications: <ul style="list-style-type: none"> <li>- The static general equilibrium model</li> <li>- Topics in finance and risk management</li> <li>- Life cycle model</li> <li>- Overlapping generations model</li> </ul> </li> </ol>		
Intended learning outcomes		
<p>After finishing this module students are able to</p> <ol style="list-style-type: none"> <li>1. implement simple economic models on the computer using Fortran 90</li> <li>2. using MonteCarlo techniques to find optimal portfolio structures and option prices</li> <li>3. quantify the risks of portfolios of banks and insurance companies</li> <li>4. simulate simple reforms of the tax and transfer system</li> <li>5. interpret the simulation results economically.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>P (2) Module taught in: German and/or English</p>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>written examination (approx. 60 minutes) and exercises (approx. 10 pages), (weighted 1:1) Language of assessment: German and/or English</p>		
Allocation of places		
<p>20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) China Business and Economics (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 127 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Practice of Data Analysis			12-PD-152-m01
Module coordinator		Module offered by	
holder of the Chair of Econometrics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Daily work in all areas of business - companies, science, institutions and politics - is based on the acquisition, processing and analysis of various data. These must be collected or generated and then processed and analyzed. In addition, data-based processes and business models offer many opportunities and challenges. The course covers the above mentioned topics and includes a theoretical and a practical part. In the theoretical part, basic knowledge in dealing with data, empirical work and the statistical software R will be taught. In the practical part of the research seminar webinars & field trips are offered.			
Intended learning outcomes			
Students able to apply statistical methods to collect numerical data.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 10 pages) and presentation (approx. 20 minutes), weighted 2:1 Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Master's degree (1 major) China Business and Economics (2016) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Master's degree (1 major) China Business and Economics (2021)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 129 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Computerlab - Applied Econometrics		12-CQW-212-m01
Module coordinator		Module offered by
holder of the Chair of Econometrics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module builds on the lectures "Grundlagen der Statistik" ("Descriptive Statistics and Introduction to Probability") and "Grundlagen der QWF" ("Introduction to Statistical Inference and Regression Analysis"). It introduces students to the simulation of different distributions and the application of linear regression analysis. In the first part of the course, different distributions are introduced, simulated with Excel and their theoretical moments are estimated. In the second part, linear regression analysis is introduced, different specifications are estimated and interpreted and potential pitfalls are pointed out.</p>		
Intended learning outcomes		
<p>After finishing this course students acquired several skills. They</p> <ul style="list-style-type: none"> <li>(i) get an overview of several distributions;</li> <li>(ii) know how to simulate those distributions in MS Excel and are able to estimate and interpret the related theoretical moments;</li> <li>(iii) can perform smaller simulations in Excel;</li> <li>(iv) get to know a variety of different Excel commands which are important for statistical working;</li> <li>(v) are introduced to the linear regression analysis, can perform it in Excel and Gretl, and know how to interpret the results.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
P (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<ul style="list-style-type: none"> <li>a) written examination (approx. 60 minutes) or</li> <li>b) term paper (approx. 10 pages) and presentation (approx. 20 minutes), weighted 2:1</li> </ul>		
Allocation of places		
<p>20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Master's degree (1 major) China Business and Economics (2021)            Bachelor's degree (1 major) Business Information Systems (2021)            Bachelor's degree (1 major) Econometrics (2021)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 131 / 333

Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)



Module title			Abbreviation
Seminar: Econometrics			12-QWF-FS-212-m01
Module coordinator		Module offered by	
holder of the Chair of Econometrics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This module will take the form of a seminar. Participants will independently work on a subdomain of applied quantitative economics, either theoretically or applying the techniques they have acquired in an empirical study.			
Intended learning outcomes			
Students acquire the ability to work independently on a given topic in applied quantitative economics, write a summary, and present it to and discuss it with other seminar participants.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 15 pages) and presentation (approx. 25 minutes); (weighted 2:1)			
Allocation of places			
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)			

Module title		Abbreviation
Managerial Accounting		12-IntUR-G-212-mo1
Module coordinator		Module offered by
holder of the Chair of Business Management, Controlling and Accounting		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Content: This course offers an introduction to aims and methods of managerial accounting (cost accounting).</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Managerial accounting and financial accounting</li> <li>2. Managerial accounting: basic terms</li> <li>3. Different types of costs</li> <li>4. Cost centre accounting based on total costs</li> <li>5. Job costing based on total costs</li> <li>6. Cost centre accounting and job costing based on direct/variable costs</li> <li>7. Budgeting and cost-variance analysis</li> <li>8. Cost-volume-profit analysis</li> <li>9. Cost information and operating decisions</li> </ol> <p>Reading: Coenenberg/Fischer/Günther: Kostenrechnung und Kostenanalyse, Stuttgart. Friedl/Hofmann/Pedell: Kostenrechnung. Eine entscheidungsorientierte Einführung. (most recent editions)</p>		
Intended learning outcomes		
<p>After completing the course "Management Accounting and Control", the students will be able to</p> <ul style="list-style-type: none"> <li>(i) set out the responsibilities of the company's internal accounting and control;</li> <li>(ii) define the central concepts of internal enterprise computing restriction and control and assign case studies the terms;</li> <li>(iii) apply the basic methods of internal corporate accounting and control on a full and cost base to idealized case studies of medium difficulty that calculate relevant costs and benefits and take on this basis a reasoned decision.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>written examination (approx. 60 minutes) Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		

<b>Teaching cycle</b>
Teaching cycle: summer semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation
Financial Accounting			12-Wipr1-F-212-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Accounting		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>Financial reporting should generate information that is made accessible to various stakeholders. Companies based in Germany are generally required to prepare annual financial statements according to the accounting principles of the German Commercial Code (HGB). This module offers a systematic analysis and interpretation of the applicable accounting principles. In addition to the purpose and principles of accounting, more extensive recognition and valuation principles in the annual financial statement, as well as group accounting practices are covered.</p> <p>Outline</p> <ul style="list-style-type: none"><li>• Introduction to the basic functions of accounting</li><li>• Overview of the German system of Generally Accepted Accounting Principles (GAAP)</li><li>• Recognition principles</li><li>• Initial and subsequent measurement principles</li><li>• Necessity of consolidated financial statements</li><li>• Scope of consolidation</li><li>• Basics of consolidation</li></ul>			
Intended learning outcomes			
<p>Upon completion of this module, students will be able to:</p> <ul style="list-style-type: none"><li>• Classify and evaluate various accounting issues from a theoretical perspective;</li><li>• Evaluate alternative actions and develop appropriate accounting strategies;</li><li>• Understand the necessity of consolidated financial statements and perform basic consolidation measures.</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 10 pages)</p> <p>Language of assessment: German and/or English</p>			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 136 / 333

### Module appears in

Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
International Accounting			12-Wipr2-F-212-mo1
Module coordinator		Module offered by	
holder of the Chair of Business Management and Accounting		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>Outline of syllabus:</p> <ol style="list-style-type: none"><li>1. Fundamentals of group accounting</li><li>2. Legal obligations for group accounts</li><li>3. Consolidated companies</li><li>4. Capital consolidation</li><li>5. Debt consolidation</li><li>6. Consolidation of intercompany results</li><li>7. Consolidation of income and expenses</li><li>8. Equity method</li><li>9. Selected problems</li></ol> <p>Reading:</p> <p>Baetge/Kirsch/Thiele: Konzernbilanzen, Düsseldorf. (most recent edition)</p>			
Intended learning outcomes			
<p>After finishing this module "Konzernrechnungslegung nach HGB und IFRS", the students will be able</p> <p>(i) to present the purposes of group accounting;</p> <p>(ii) to identify and interpret central legal rules;</p> <p>(iii) to apply consolidation methods on problems of moderate difficulty (in terms of capital, debt, interim results, expenses and income) and preparing the necessary entries for the group accounts;</p> <p>(iv) to name central differences for group accounts according to the German Commercial Code (HGB) and IFRS and give reasons for the differences.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 10 pages)</p> <p>Language of assessment: German and/or English</p>			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: winter semester			

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Master's degree (1 major) China Business and Economics (2021)  
Bachelor's degree (1 major) Business Information Systems (2021)  
Bachelor's degree (1 major) Econometrics (2021)  
Bachelor's degree (1 major) Business Management and Economics (2021)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
Bachelor's degree (1 major) Econometrics (2022)  
exchange program Business Management and Economics (2022)

Module title			Abbreviation
Financial Statement Analysis and Valuation			12-Wipr3-F-212-mo1
Module coordinator		Module offered by	
holder of the Chair of Business Management and Accounting		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
SAP S/4HANA, as a leading enterprise resource planning (ERP) system, is transforming financial operations with its advanced capabilities in processing large volumes of data and integrating financial information across business units. This module provides a hands-on introduction to the accounting modules of SAP S/4HANA. Through practical sessions and case studies, students will learn the key functionalities of selected modules and work in groups to explore various case scenarios using the SAP S/4HANA environment.			
Intended learning outcomes			
Upon completion of this module, students will be able to: <ul style="list-style-type: none"><li>• Understand the basic structure of SAP S/4HANA and selected modules;</li><li>• Account for various transactions using SAP S/4HANA;</li><li>• Evaluate alternative actions and develop appropriate accounting strategies.</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 10 pages) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: winter semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 140 / 333



Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Seminar: Financial Accounting			12-Wipr-FS-212-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Accounting		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>In this module, students engage with the scientific literature in the fields of accounting and finance. The aim of the seminar is to write a systematic literature review on a previously chosen topic area. Students will have access to an online tool for literature analysis developed by the department for this purpose.</p> <p>Students should have an interest in a topic from the field of accounting or finance that belongs to one of the following areas:</p> <ul style="list-style-type: none"><li>• Financial Accounting</li><li>• Corporate Disclosure</li><li>• Sustainability Reporting</li><li>• Standard Setting</li><li>• Capital Markets</li><li>• Valuation</li><li>• Digital Transformation in Accounting</li><li>• Auditing</li><li>• Corporate Governance</li></ul>			
Intended learning outcomes			
<p>Upon completion of this module, students will be able to:</p> <ul style="list-style-type: none"><li>• Identify and motivate a relevant topic area in the field of Accounting or Finance;</li><li>• Find and analyze scientific literature on a specific topic area;</li><li>• Analyze and discuss selected studies.</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) Language of assessment: German and/or English			
Allocation of places			
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Master's degree (1 major) China Business and Economics (2021)  
Bachelor's degree (1 major) Business Information Systems (2021)  
Bachelor's degree (1 major) Econometrics (2021)  
Bachelor's degree (1 major) Business Management and Economics (2021)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
Bachelor's degree (1 major) Econometrics (2022)  
Bachelor's degree (1 major) Business Information Systems (2023)  
Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Decision Theory		12-I&F-F-192-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Corporate Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Based on the decision theory under certainty, this module covers normative decision theory under uncertainty in its manifestations of the expected utility theory and the <math>\mu - \#</math> theory.</p> <p>Syllabus:</p> <p>Part 1: Decisions under certainty</p> <ol style="list-style-type: none"> <li>1. Fisher mode</li> <li>2. Revealed preferences</li> <li>3. Preference relations</li> </ol> <p>Part 2: Decisions under uncertainty: Expected Utility Theory</p> <ol style="list-style-type: none"> <li>1. The basic model</li> <li>2. Risk preferences</li> <li>3. Intensity of risk aversion</li> <li>4. Stochastic dominance</li> <li>5. Prospect Theory</li> </ol> <p>Part 3: Decisions under uncertainty: <math>\mu - \#</math> principle</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Relation to expected utility theory</li> <li>3. Application in Portfolio Theory &amp; Tobin-Separation</li> <li>4. Properties</li> </ol>		
Intended learning outcomes		
The students acquire knowledge about how to describe appropriate decision situations and how to solve them based on the learned concepts.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Investment and Finance		12-I&F-FS-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Corporate Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This seminar deals with current topics of investments and finance. Students will be required to independently analyse a selected topic and to write a term paper. This term paper may be largely literature based or empirical or may be based on independent work with formal models. In addition, students will be required to deliver a talk on the topic.		
<b>Intended learning outcomes</b>		
After completing the seminar "Investments and Finance", the students acquired detailed knowledge of important fields of investments and finance. They are also able to process their research findings in a written assignment and to present their findings.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (approx. 15 pages) and oral examination (approx. 25 minutes); (weighted 3:2)		
<b>Allocation of places</b>		
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 146 / 333

Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Introduction to Risk Management		12-ERM-211-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Corporate Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module provides an overview of the form and approach of the systematic risk management process in a business context. This risk management process consists of the process steps of risk identification, risk assessment and aggregation, risk management and risk control.</p> <p>This course is based on this process structure and is structured accordingly:</p> <p>Legal and business motivation for risk management.  Risk identification  Risk assessment and aggregation  Risk control  Risk control and reporting  Risk management information systems (RMIS)  M1   Legal and business motivation for risk management</p> <p>In Germany, outside the banking sector, there have been legal regulations for setting up corporate risk management since the KonTraG came into force in 1998. In addition to the legal obligation to set up a risk management system, the systematic handling of risks is also of interest from a business management point of view, as the conscious acceptance of risks has a significant positive influence on the company's ability to plan and control.</p> <p>M2   Risk identification</p> <p>Risk identification involves systematically recording all of a company's major risks. The earlier risks are identified, the more comprehensively appropriate countermeasures can be taken.  Risk identification is a fundamental task of risk management, as it provides the information basis for all further process steps, because only identified risks can be assessed, aggregated and controlled. Various methods can be used to identify risks.</p> <p>M3   Risk assessment and aggregation</p> <p>Once risks have been identified, they must be assessed. Both qualitative and quantitative methods are available for this purpose. The objective of risk assessment is to describe the risk in terms of appropriate statistical distribution functions. Once the relevant risks have been described by distribution functions, the next task is to determine the company's overall risk position by means of a so-called risk aggregation.</p> <p>M4   Risk management</p> <p>This module deals with the options for risk control. Risk management is strongly linked to a company's strategy, as this is also where the company's attitude towards risk is anchored (risk appetite). In addition, the risk coverage potential (=available equity capital) is of decisive and existential importance.  Various strategies can be used to manage risks.</p> <p>M5   Risk control and reporting</p> <p>With the help of early warning indicators (so-called key risk indicators, KRI), (negative) changes in the scope or probability of risk occurrence can be monitored and identified in good time. However, risk control does not only</p>		
Bachelor's with 1 major Econometrics (2022)		page 148 / 333



monitor KRI, it is also used to control measures implemented as part of risk management and to evaluate them for efficiency and success.

As part of risk reporting, all findings from the individual risk management process phases are transferred to a risk report. The addressees of the risk report are risk officers, department heads, the Board of Management, the Supervisory Board or external parties such as auditors, shareholders or rating agencies. The scope and level of detail of the risk report depend on the recipient of the report.

#### M6 | Risk management information systems (RMIS)

A prerequisite for the company-wide and sustainable establishment of a risk management system is the software support provided by risk management information systems. Although known risks can be recorded and processed using standard tools such as Excel spreadsheets, they quickly reach their limits. As soon as additional users are to be integrated, an integrated software approach is required, as risk management information systems entail.

#### Intended learning outcomes

Students are taught the fundamentals of risk management. The students are able to identify, record and evaluate risks in a structured manner and furthermore express the scope of risk on a mathematical basis. The students are able to derive suitable risk measures and know how risks can be monitored.

#### Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (2)

#### Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes)

#### Allocation of places

--

#### Additional information

--

#### Workload

150 h

#### Teaching cycle

Teaching cycle: each semester

#### Referred to in LPO I (examination regulations for teaching-degree programmes)

--

#### Module appears in

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Economathematics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Economathematics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Economathematics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Economathematics (2022)

exchange program Business Management and Economics (2022)  
Bachelor's degree (1 major) Business Information Systems (2023)  
Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Business Valuation between Financial Mathematics and Data on Capital Market			12-UBW-F-152-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Corporate Finance		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Content: This course deals with the "objectified corporate valuation" of public companies, the components of the discount rate and the mathematical structure of the DCF methods.			
Outline of syllabus: 1. Introduction 2. Uncertainty as the central problem in the valuation of a company 3. Estimation of surpluses: accuracy and consistency 4. Risk free rate: capitalised value under certainty applying different interest rate structures 5. The risk premium: identification of the relevant risk and its equivalence for valuation object and alternative investment 6. Different discounted cash flow valuation methods: formal foundations and economic principles			
Intended learning outcomes			
After completion of the module "Business valuation between Financial Mathematics and capital market data" students can (i) understand the modern process of objectified business valuation theory; (ii) examine submitted reviews according to consistent application of these methods.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 151 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Master's degree (1 major) China Business and Economics (2016)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Accounting		12-ExtUR-G-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This course offers an introduction to the fundamentals of financial accounting, including the technique of double-entry book-keeping as well as the fundamentals of recognition, valuation and presentation of assets, liabilities and equity according to German commercial law.		
<b>Intended learning outcomes</b>		
Students acquire a basic understanding of the fundamentals of financial accounting. They are able to arrange, reproduce and apply this knowledge, i.e. they are able to solve simple accounting problems.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: winter semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 153 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation
Business Taxation 1: An Introduction to Tax Law & Tax Planning			12-St1-F-152-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This module will introduce students to the field of business taxation. It will provide an overview of German tax law and will analyse tax effects on economic decisions in standard models for investment and financing decisions.			
Intended learning outcomes			
Students get an overview of the German tax law and they acquire the ability to recognize and understand the effect of taxation in fundamental economic decisions. Therefore, the module is recommended also for students who don't want to specialize in finance and accounting but rather in management studies.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes) creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Master's degree (1 major) China Business and Economics (2016) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019) Bachelor's degree (1 major) Business Information Systems (2020)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 155 / 333

Master's degree (1 major) China Business and Economics (2021)  
Bachelor's degree (1 major) Business Information Systems (2021)  
Bachelor's degree (1 major) Econometrics (2021)  
Bachelor's degree (1 major) Business Management and Economics (2021)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
Bachelor's degree (1 major) Econometrics (2022)  
exchange program Business Management and Economics (2022)



Module title		Abbreviation
<b>Business Taxation 2: The Taxation of Income in Germany</b>		12-St2-F-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this module, students will acquire an in-depth knowledge of the system of income taxation in Germany which consists of personal income tax, corporate income tax and trade tax, a special income tax on business income.</p> <p><b>1 INCOME TAX (EStG)</b></p> <p>1.1 Income concepts and legal definitions of income 1.2 Determining income in accordance with the EStG</p> <p><b>2 CORPORATE INCOME TAX (KStG)</b></p> <p>2.1 Basic principles 2.2 Determination of income 2.3 Loss offset rules 2.4 Special issues with equity capital for tax purposes 2.5 Treatment of shareholdings</p> <p><b>3 TRADE TAX (GewStG)</b></p> <p>3.1 Basic principles 3.2 Loss offset rules 3.3 Group taxation in the trade tax</p> <p><b>4 CASE STUDY PROFIT CALCULATION UNDER COMMERCIAL AND TAX LAW</b></p>		
Intended learning outcomes		
Students acquire in-depth knowledge of the system of income taxation in Germany. They are able to solve practical problems of medium to high complexity in this field by means of the tax code, other legal texts and secondary literature.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		

### Teaching cycle

Teaching cycle: winter semester

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

### Module appears in

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Master's degree (1 major) China Business and Economics (2016)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Business Taxation 3: Introduction to VAT</b>		12-St3-F-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Introduction to German value added tax.		
<b>Intended learning outcomes</b>		
Students acquire a thorough knowledge of German VAT law. They are able to solve VAT problems of low to medium complexity by using the tax code itself as well as related literature.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 10 to 15 minutes, groups of 2: approx. 20 minutes, groups of 3: approx. 30 minutes) creditable for bonus		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: summer semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Master's degree (1 major) China Business and Economics (2016) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019) Bachelor's degree (1 major) Business Information Systems (2020) Master's degree (1 major) China Business and Economics (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 159 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Selected Topics in Business Taxation			12-StAP-V-212-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This module deals with selected problems and issues of business taxation.			
Intended learning outcomes			
The students will be able to edit and solve selected problems and issues of business.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or c) oral examination in groups of up to 3 candidates (approx. 10 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)			

Module title			Abbreviation
Seminar: Business Taxation			12-StAP-S-212-m01
Module coordinator		Module offered by	
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This module deals with selected problems and issues of business taxation.			
Intended learning outcomes			
The students will be able to edit and solve selected problems and issues of business taxation.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or c) oral examination in groups of up to 3 candidates (approx. 10 minutes per candidate) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 162 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Managerial Accounting: cost-based decision-making and control</b>		12-KR-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management, Controlling and Accounting		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
First, this module will discuss basic principles of accounting such as full and direct costing as well as cost and performance accounting in the context of decision-making. The course will then focus on decision-making processes (short-term production planning, pricing decisions) and internal control calculations (the role of controls, deviation analyses).		
<b>Intended learning outcomes</b>		
This module provides competences in order to apply systems of full and direct costing, cost and performance accounting with regard to decision-making and internal control processes. After completing the course unit, students will be able to understand and assess the theoretical principles and interrelationships in decision-making and control as well as be able to apply them to examples from corporate practice. The goal is to promote analytical thinking and problem-solving abilities by analyses of complex problem structures.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: winter semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Master's degree (1 major) China Business and Economics (2016) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Master's degree (1 major) China Business and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 164 / 333



Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Sales Accounting & Management			12-VeCo-212-mo1
Module coordinator		Module offered by	
holder of the Chair of Business Management, Controlling and Accounting		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The focus of the lecture is the support of sales management by controlling. The course covers the positioning of sales and sales management with a special emphasis on B2B sales of IT companies and the position of sales controlling as a subset of overall controlling in different business organisations. The course discusses basic requirements of an ideal support of sales by controlling as well as possible elements with which this support function can be realised, such as management information systems, target management and customer relationship management.			
Intended learning outcomes			
Knowledge about the practice of working in sales management and the associated sales is acquired. By displaying theoretical tools to support sales management by the controlling and the balance with the reality in companies, participants further acquire skills to evaluate the possible use of sales management tools in practice.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes)			
Allocation of places			
40 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 166 / 333

Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Seminar: Managerial Accounting</b>		12-AAC-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management, Controlling and Accounting		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
In this course, students will acquire important knowledge and skills that will enable them to prepare a well-structured paper and to present the results of their work with the help of relevant topics in the field of the focuses of module "Entscheidungs- und Kontrollrechnung" ("Management Accounting: Decision Making and Control").		
<b>Intended learning outcomes</b>		
After completing the controlling bachelor seminar, students will be able to (i) understand and apply the fundamentals of scientific literature reviews; (ii) use elaborated content to write scientific papers; (iii) create presentations and lectures independently.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (approx. 12 pages) and presentation (approx. 20 minutes), (weighted 2:1)		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)		

Module title		Abbreviation
<b>Monetary Policy and Financial Markets</b>		12-EuGP-F-212-m01
Module coordinator		Module offered by
holder of the Senior Professorship for Economics, Money and International Economic Relations		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The course discusses the following questions:</p> <ol style="list-style-type: none"> <li>1. Why is price stability the main objective of the ECB?</li> <li>2. How can the ECB control interest rates and the creation of credit? Why did the financial crisis happen?</li> <li>3. How does interest rate policy influence macroeconomic objectives (price stability and full employment)?</li> <li>4. Why is it important for monetary policy to be independent?</li> <li>5. How does the ECB know, how to set interest rates? (strategies of monetary policy)</li> <li>6. Why did central banks engage in unconventional monetary policy during the last years?</li> </ol>		
Intended learning outcomes		
By completing this course, students receive a profound understanding of theory and practice of monetary policy. Next to a profound knowledge of monetary policy in general, students are able to form a critical opinion about the conduct of monetary policy by the European Central Bank and in part about the policy of other central banks.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 169 / 333

Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
International Money & Finance		12-IFM-212-m01
Module coordinator		Module offered by
holder of the Senior Professorship for Economics, Money and International Economic Relations		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The module introduces students to exchange rate theory, the determinants of international financial flows and monetary open economy models for the analysis of monetary and fiscal policy. The module is divided into three parts. The first one covers exchange rates and the second one the balance of payments, international financial flows and financial market globalization. Based on these two, the third one focusses on economic policy applications including the exchange rate regime choice, exchange rate crises and optimum currency area theory.		
Intended learning outcomes		
Students will acquire a basic understanding of international finance and learn analyzing practical examples with monetary models. Students gain expertise on institutional aspects and theoretical models. Having completed the module, students will be able to understand current developments in international finance and apply models and theories to analyze and evaluate these.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: after announcement		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 171 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)



Module title		Abbreviation
Applied Business Cycle Analysis and Forecasting		12-AKP-211-m01
Module coordinator		Module offered by
holder of the Chair of Monetary Economics and International Financial Markets		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module is an introduction to economic forecasting and business cycle analysis. The course is divided into three sections. In the first section, statistical and methodological basics on quantitative macroeconomic analysis and forecasting are discussed. The second section covers various aspects and issues related to economic forecasting. In the last sections, recent developments, topics, and research insights are presented.		
Intended learning outcomes		
Students will acquire a basic understanding of the theory and practice of applied business cycle analysis and forecasting. Further, students will learn how to analyze and answer real-world economic problems using their economic toolkit. Students gain expertise on applying their knowledge gained in basic economics courses on policy-relevant issues. Having completed the module, students will be able to understand current macroeconomic and economic policy developments and to use models and theories to analyze and evaluate these.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) Written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination (approx. 20 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: after announcement		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 173 / 333

Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Seminar: Economic Policy			12-VWL1-FS-212-m01
Module coordinator		Module offered by	
holder of the Chair of Monetary Economics and International Financial Markets		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Acquiring an in-depth understanding of specific problems of macroeconomics.			
Intended learning outcomes			
After the seminar, students can (i) consolidate acquired knowledge and if necessary apply additional techniques of scientific work; (ii) create, present and defend a scientific paper; (iii) deal with the working papers of other participants; (iv) prepare beter for the processing of the bachelor thesis.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 15 pages) and presentation (approx. 25 minutes); (weighted 2:1) Language of assessment: German and/or English			
Allocation of places			
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 175 / 333

Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Seminar: Public Finance			12-Fiwi-FS-212-m01
Module coordinator		Module offered by	
holder of the Chair of Public Finance		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
In this course, students will acquire an in-depth understanding of specific problems discussed in "Makroökonomik II" ("Macroeconomics II") and "Mikroökonomik III" ("Microeconomics III"). The course will use scientific economic journal articles in German and English language.			
Intended learning outcomes			
After completing this module, students (i) consolidate what they have learned and if necessary apply additional techniques of scientific work; (ii) create, present and defend a research paper; (iii) deal with the working papers of other participants; (iv) are better prepared for the processing of the bachelor thesis.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 15 pages) and presentation (approx. 25 minutes); (weighted 2:1)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)			

Module title		Abbreviation
Insurance Markets		12-VM-152-m01
Module coordinator		Module offered by
holder of the Chair for Economics, Contract Theory and Information Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Asymmetric information makes insurance markets different from common goods markets. Research questions and methods thus have to take these special features into account. Typical subjects covered in the course:</p> <ol style="list-style-type: none"> <li>1. Demand for insurance</li> <li>2. Supply of insurance</li> <li>3. Adverse selection in insurance markets</li> <li>4. Moral hazard in insurance markets</li> <li>5. Empirical assessment of information problems</li> <li>6. Informal insurance schemes</li> <li>7. Insurance and bounded rationality</li> </ol>		
Intended learning outcomes		
<p>After completing the course students are able to</p> <ol style="list-style-type: none"> <li>1. explain the essential results of the economic analysis of insurance markets,</li> <li>2. apply the involved methods to given simple examples on their own,</li> <li>3. recognise, in which real life situations and how the results can be applied,</li> <li>4. analyse the impact of certain insurance contracts on market outcomes.</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)          Bachelor's degree (1 major) Econometrics (2015)          Bachelor's degree (1 major) Business Information Systems (2015)          Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)          Master's degree (1 major) China Business and Economics (2016)          Bachelor's degree (1 major) Business Information Systems (2016)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 178 / 333

Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title		Abbreviation
Business Cycle Analysis		12-Konj1-F-212-m01
Module coordinator		Module offered by
head of the Work Group of Empirical Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The course will introduce students to the theory of business cycle dynamics. Capitalist based economies are subject to pronounced cycles of economic booms and busts. In this course, we will find out why! Kicking off the lecture, we will look at some stylised empirical facts of business cycles. Afterwards, we will give a structural interpretation, focusing in particular on housing and asset markets and their role for the business cycle. We will also take a closer look at investment, one of the main cycle-makers. Afterwards, we will ask the question of how monetary and fiscal policy can safeguard the business cycle. Special attention will be given to the euro area. We will also invite an expert to give a practical introduction to business cycle indicators.</p>		
Intended learning outcomes		
<p>The course offers an introduction into a vast array of analytical tools. Students</p> <ul style="list-style-type: none"> <li>(i) are exposed to 1st and 2nd order difference equations and learn how to solve them;</li> <li>(ii) learn how business cycle indicator are constructed;</li> <li>(iii) are supplied with up to date knowledge on the interaction of business cycles, asset markets and economic policy which enables them to critically access contemporaneous policy.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<ul style="list-style-type: none"> <li>a) written examination (approx. 60 minutes) or</li> <li>b) term paper (as individual or group work; approx. 10 pages each person) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 10 minutes each candidate)</li> </ul>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Master's degree (1 major) China Business and Economics (2021)            Bachelor's degree (1 major) Business Information Systems (2021)            Bachelor's degree (1 major) Econometrics (2021)            Bachelor's degree (1 major) Business Management and Economics (2021)            Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)            Bachelor's degree (1 major) Econometrics (2022)            exchange program Business Management and Economics (2022)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 180 / 333



Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Seminar: Business cycles, corporate finance and asset markets</b>		12-KUV-211-m01
Module coordinator		Module offered by
head of the Work Group of Empirical Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>The modul is located in the nexus of business cycles, corporate finance and asset markets. Being located at the intersection between economics and finance the modul adresses the interaction between business cycles, corporate finance and asset markets. Concretely students can work on subjects like „what is the impact of interest rate changes by the central bank on the housing market“, „how do asset markets and household consumption interact“ and „what is the interrelationship between financing conditions and the business cycle“. From a methodological point of view the course targets to built on existing methodological toolkits acquired during the bachelor studies. Students are guided to deepen their understanding on those toolkits to analyze data and to generate results.</p>		
<b>Intended learning outcomes</b>		
<p>The modul equips students with the necessary tools to analyze data to generate results on topics of interest. Besides students need to present their findings and communicate their results to other students.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (approx. 15 pages) and presentation (approx. 25 minutes); (weighted 2:1)		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)          Bachelor's degree (1 major) Economathematics (2015)          Bachelor's degree (1 major) Business Information Systems (2015)          Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)          Bachelor's degree (1 major) Business Information Systems (2016)          Bachelor's degree (1 major) Economathematics (2017)          Bachelor's degree (1 major) Business Information Systems (2019)          Bachelor's degree (1 major) Business Management and Economics (2019)          Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)          Bachelor's degree (1 major) Business Information Systems (2020)</p>		
Bachelor's with 1 major Economathematics (2022)		page 182 / 333

Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
European Macroeconomics		12-EM-211-m01
Module coordinator		Module offered by
holder of the Senior Professorship for Economics, Money and International Economic Relations		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This course focuses on the macroeconomics of the euro area. It is based on a theoretical part which provides a critical presentation of the two core macroeconomic paradigms: the (neo)classical approach and the Keynesian approach. This allows a comparative analysis of policy implications for important macroeconomic topics (unemployment, inflation, government debt, financial system). The policy-oriented part discusses the monetary policy of the ECB and the challenges for fiscal policy in the euro area, which are due to the lack of fiscal policy integration. The course will also present other euro area specific topics (e.g. Optimum currency area, euro crises, Next Generation EU).</p>		
Intended learning outcomes		
<p>After completing this course, students will have gained a profound understanding of (applied) macroeconomic policies in general and specifically in the EMU. The students will have a deeper understanding of the two core macroeconomic models and their application for economic policy by using empirical data. Thus, they will enhance their general macroeconomic understanding by applying it to real world problems. In addition, students will develop a sound knowledge of the institutions of common fiscal and monetary policy in Europe.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) Written examination (approx. 60 minutes) or b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or c) oral examination (approx. 20 minutes) Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 184 / 333

Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Human Resource Management			12-P&O-F-212-m01
Module coordinator		Module offered by	
holder of the Chair for Human Resource Management and Organisation		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The lecture Personnel Management covers basic methodological, empirical, and institutional concepts of the subject. More specifically, on the basis of the principal-agent model answers are given on how the basic dilemma of the relationship between employer and employee can be solved. Mainly financial incentives on the individual and team level are presented and discussed. In addition, possibilities to reduce information asymmetries are presented.			
Intended learning outcomes			
Students should be able to understand, discuss and apply basic theories, econometric techniques as well as empirical findings in personnel management.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Master's degree (1 major) Media Entertainment (2022) Master's degree (1 major) Psychology of digital media (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 186 / 333

Module title			Abbreviation
Seminar: Human Resource Management & Organizational Theory			12-P&O-FS-212-m01
Module coordinator		Module offered by	
holder of the Chair for Human Resource Management and Organisation		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Students will write a seminar paper on, deliver a talk on and discuss current issues in the field of human re- sources management and organisation in class.			
Intended learning outcomes			
The students learn to handle, formulate in own words, present, and discuss current research literature.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 15 pages) and presentation (approx. 20 minutes), (weighted 1:1) Language of assessment: German and/or English			
Allocation of places			
15 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)			

Module title		Abbreviation
International Economics		12-IntÖk-152-m01
Module coordinator		Module offered by
holder of the Chair of International Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p><u>Content</u></p> <p>The course starts with an introduction into facts, trends and issues pertaining to the real side of globalization. The main part of the course deals with explanations of international trade (comparative advantage, product variety) and for international factor movements (if time permits). Current issues and controversies (e.g. globalization and labor; globalization and the environment; migration within the European Union) are analyzed on this background.</p> <p><u>Outline</u></p> <p>I International Economics – Trends and current developments  II Internationale Trade  1 Ricardian Theory: Labor productivity and comparative advantage  2 Heckscher-Ohlin-factor proportion theory and the general neoclassical model  3 New Trade Theory: Product differentiation, scale economies, firm heterogeneity  III International Factor Movements [time permitting]</p> <p><u>Literature</u></p> <p>This course does not strictly follow a single textbook. The best general reference is:  Krugman, P.R., M. Obstfeld, M.J. Melitz (2018), International Economics. Theory and policy (older versions will also do).</p> <p>The course develops case studies that use additional references.</p>		
Intended learning outcomes		
The students acquire the ability to critically reflect and understand trends and developments concerning the real side of the world economy: trade flows and international factor movements. They are enabled to understand and defend the causes and consequences of globalization both analytically as well as in an intuitive manner. They acquire the scientific knowledge to evaluate controversies associated with the ongoing deepening of the international division of labor.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		



<b>Teaching cycle</b>
Teaching cycle: summer semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Master's degree (1 major) China Business and Economics (2016)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Master's degree (1 major) China Business and Economics (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>exchange program Business Management and Economics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>

Module title			Abbreviation
Seminar: International Economics			12-IntÖk-FS-152-m01
Module coordinator		Module offered by	
holder of the Chair of International Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<u>Content</u>  Current topics in international economics and economic geography [e.g. Urbanization and Inequality; Tasks, Trade, and Cities; Outsourcing, Offshoring and Multinational Firms; Competition of Locations, Jurisdictions and Systems; Globalization and the Environment; Trade, Multinational Firms and Labor Markets; Triumph of the City]			
<u>Literature</u> Peer-reviewed articles and/or monographs.			
Intended learning outcomes			
Drawing on current cutting-edge research, students are enabled to analyze current research questions and to learn and apply research methods. The seminar style of the course teaches them to present their own seminar papers and research both in written and in oral form. Students are enabled to critically analyze and discuss the work of their peers.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 15 pages) and presentation (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English			
Allocation of places			
10 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Master's degree (1 major) China Business and Economics (2016)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 190 / 333

Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Applied Regional and Urban Economics		12-ARS-152-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
I A brief revision of econometrics: OLS and fixed effects regression II Geographical agglomeration of economic activity III Firm heterogeneity and the exporter wage premium IV A brief revision of econometrics: Instrumental variables regression V German local labour markets and "the Rise of the East"		
<b>Intended learning outcomes</b>		
<p>This course focuses on the empirical analysis of current topics in international and regional economics. After reviewing some theoretical background and empirical methods, students learn to comprehend empirical studies, recognize possible pitfalls and conduct their own analyses using statistical software packages and authentic datasets. A strong focus is put on the identification of causal effects. Students should already have basic knowledge in econometric analysis and international trade theory.</p> <p>The lecture starts with a revision of basic empirical methods. The first application is to analyse if and why (and to what magnitude) firms benefit from being located in agglomerations such as the Silicon Valley. Next, we analyse the role of firms in international trade. What distinguishes exporters from non-exporters and are employees of exporters better off? Returning to a regional perspective, we then discuss several recent research papers on the adjustment of local labor markets to increasing trade with China and Eastern Europe.</p> <p>In a complementary lab tutorial (Übung) students learn to conduct empirical analyses by themselves. In hands-on exercises, they first practice how to obtain and prepare datasets and how to use summary statistics to find general patterns in the data. We then apply our theoretical knowledge from the lecture to devise empirical strategies and to interpret our results.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 10 pages) including empirical analysis prepared by candidates Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: summer semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Master's degree (1 major) China Business and Economics (2016)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Master's degree (1 major) China Business and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Public Policy		12-WiPo-G-212-m01
Module coordinator		Module offered by
holder of the Chair of Labour Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>This course provides an introduction into public policy. Public policy studies the role of the government in the economy. It basically answers four questions:</p> <ul style="list-style-type: none"> <li>• When should the government intervene?</li> <li>• How might the government intervene?</li> <li>• What is the effect of those interventions?</li> <li>• Why do governments choose to intervene in the way that they do?</li> </ul> <p>The lecture will cover the following topics:</p> <ol style="list-style-type: none"> <li>1. Introduction into public economics/finance</li> <li>2. Theoretical toolkit</li> <li>3. Empirical toolkit</li> <li>4. Public goods</li> <li>5. Cost Benefit Analysis</li> </ol>		
<b>Intended learning outcomes</b>		
<p>The aim of the course is to provide students with an understanding of the public policy making process of the government and to endow them with the necessary skills to judge about and/or design public policies. Students will learn the core theoretical models of public economics as well as modern empirical methods of public finance. The focus will not lie on the theoretical details, but rather on the beauty of the different methods to provide answers to public policy questions.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + T (2)		
Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) portfolio (approx. 20 pages) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: winter semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) China Business and Economics (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 194 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title		Abbreviation
Labour Economics		12-A&S-F-212-m01
Module coordinator		Module offered by
holder of the Junior Professorship of Microeconomics, esp. Economics of Digitization		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Description: This course offers an introduction to labour economics and social policy.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Worlds of welfare capitalism</li> <li>2. Labour economics</li> <li>3. Social policy</li> </ol> <p>Basic reading:</p> <p>Sapir, A. (2005): Globalisation and the Reform of the European Social Models, Brussels.  Franz, W. (2009): Arbeitsmarktökonomik, 7th edition.  Wagner, T./Jahn, E.J. (2004): Neue Arbeitsmarkttheorien, 2nd edition.  Ehrenberg, R.G./Smith, R.S. (1996): Modern Labor Economics, 6th edition.  Breyer, F./Buchholz, W. (2009): Ökonomie des Sozialstaats, 2nd edition.  Lampert, H./Althammer, J. (2004): Lehrbuch der Sozialpolitik, 7th edition.</p>		
Intended learning outcomes		
<p>The students analyze the function of the labor market and get an impression of relevant aspects in social policy.  The students are able to illustrate the underlying theoretical models, can interpret them economically and apply to the current situation.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>V (2) + Ü (2)  Module taught in: German and/or English</p>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or  b) portfolio (approx. 20 pages)  Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		



### Module appears in

Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Labour Economics		12-LES-211-m01
Module coordinator		Module offered by
holder of the Chair of Labour Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This course provides an introduction into modern labor economics. The lecture will cover the following three core topics:</p> <p>I. Structure of the labor market</p> <ol style="list-style-type: none"> <li>1. Labor supply</li> <li>2. Labor demand</li> <li>3. Labor market equilibrium</li> </ol> <p>The objective of this part is to provide an understanding of the determinants of labor supply and labor demand and how they match and finally reach an equilibrium. This also implies studying the design and effects of policy interventions in order to combat inefficiencies.</p> <p>II. Wage formation</p> <ol style="list-style-type: none"> <li>4. Human capital formation</li> <li>5. Compensating wage differentials</li> <li>6. Discrimination</li> <li>7. Wage structure and inequality</li> </ol> <p>The objective of the second part to investigate the different determinants of wages and to understand the reasons (justified or unjustified) why some people earn more than others.</p> <p>III. Unemployment</p> <p>The third and last part of the lecture deals with one of the biggest challenges to policy makers: unemployment.</p>		
Intended learning outcomes		
<p>Participants will be familiarized with the core theoretical models of modern labor economics and the basic methods of modern empirical labor economics. As such the course will be divided into two parts: the lecture where the theory is taught as well as the exercise class which are „hands on“ sessions in order to be able to conduct an economic analysis both theoretically as well as empirically.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>S (2)</p> <p>Module taught in: German and/or English</p>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>Term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 3:2</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 198 / 333

<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: after announcement
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>exchange program Business Management and Economics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>

Module title		Abbreviation
Economics of Information		12-IÖ-152-m01
Module coordinator		Module offered by
holder of the Chair for Economics, Contract Theory and Information Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>During the 1960/70s, microeconomic theory came to acknowledge that many (if not most) economic transactions are characterized by asymmetric distribution of information – i.e., at least one of the parties participating in a transaction usually is privy to information that the remaining parties do not have access to. This asymmetric distribution of information subsequently was recognized to be a major impediment for transactions to be economically efficient. Contract theory addresses the question how the inefficiencies arising from asymmetric distribution of information can best be mitigated by appropriate design of the contractual (or, more generally, institutional) framework that governs the transaction under consideration. This lecture covers the baseline models of “moral hazard” (i.e., situations where one party has private knowledge after a contract has been signed) and “adverse selection” (i.e., situations where one party has private knowledge before a contract is signed). As applications we will address questions discussed in organizational, personnel or industrial economics, such as incentive design within organizations or the design of labor law regulations and competition laws.</p> <p>Even though we will work with precise mathematical formalizations of the ideas that we want to think and talk about, this course requires little more than a solid understanding of basic differential calculus. More important than having a solid mathematical background is having a strong interest in formal economic analysis and fun with logical thinking and puzzle solving.</p> <p>The exposition is primarily based on the following textbook:</p> <ul style="list-style-type: none"> <li>• Laffont und Martimort (2002): "The Theory of Incentives"</li> </ul>		
Intended learning outcomes		
<p>After completing the course students will be able to</p> <ul style="list-style-type: none"> <li>• explain essential findings of contract theory,</li> <li>• apply the involved methods to given stylized examples on their own,</li> <li>• interpret the properties of real-life contracts as the outcome of the interaction between two or more contracting parties in the presence of asymmetric information,</li> <li>• evaluate government interventions with regard to their effect on the efficiency properties of the interaction between the contracting parties.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		

<b>Teaching cycle</b>
Teaching cycle: winter semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Master's degree (1 major) China Business and Economics (2016)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Master's degree (1 major) China Business and Economics (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Master's degree (1 major) China Business and Economics (2021)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>exchange program Business Management and Economics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>

Module title			Abbreviation
Seminar: Decision Making and Incentive Design			12-IAO-212-m01
Module coordinator		Module offered by	
holder of the Chair for Economics, Contract Theory and Information Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>This seminar covers the following special topics in organisational economics:</p> <ul style="list-style-type: none"><li>• Hidden costs of control - theory and evidence</li><li>• Reciprocity and incentives - experimental evidence</li><li>• Task meaning, respect, and performance effects - experimental evidence</li><li>• Leadership - theory and evidence</li></ul>			
Intended learning outcomes			
Drawing on current cutting-edge research, students are enabled to critically and independently analyze current research questions and to learn and apply research methods. The seminar style of the course teaches them to present their own seminar papers and research both in written and in oral form. Students are enabled to critically analyze and discuss the work of their peers.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
Term paper (approx. 10 pages) and presentation (approx. 20 minutes); (weighted 2:1) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 202 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Introduction to Business Journalism			12-EWJ-192-m01
Module coordinator		Module offered by	
holder of the Professorship of Economic Journalism		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The course provides a practical introduction to the functions and goals of business journalism and gives an initial overview of the subject area of journalism. The focus is on the following questions: What is communication? What are the special features of business journalism? How does one communicate complex economic-political contexts? What needs to be taken into account when providing information and conducting research? How are sources handled in journalism? How are journalistic products such as a report or news item or a report written? How does storytelling work? What is the most efficient way to disseminate journalistic products? What comprises the field of journalistic ethics?			
Intended learning outcomes			
Through practical exercises, students learn about different forms of presentation and gain insight into research techniques. After completing the "Introduction to Business Journalism" module, students are able to comprehend and evaluate the work of journalists and likewise write journalistic products independently.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
Portfolio (approx. 20 pages) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 204 / 333



Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Crossmedia Storytelling in Business Communication		12-CWK-192-m01
Module coordinator		Module offered by
holder of the Professorship of Economic Journalism		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Online and cross-media journalism takes into account the current media convergence. This seminar focuses on the individual elements and phases of production for the website, Facebook, Instagram, Twitter, and Tiktok against the background of current trends and developments. In addition, the seminar covers current trends in journalism. In addition to content-related topics, the focus is also on new methods (e.g. of storytelling), as well as technical developments.		
<b>Intended learning outcomes</b>		
After successful completion, students will be able to name the individual phases of online and cross-media journalism and carry them out on sample projects, explain and go through the individual production stages, use methods and tools for the individual steps.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Portfolio (approx. 20 pages) Language of assessment: German and/or English		
<b>Allocation of places</b>		
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 206 / 333

Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Business Journalism and Business Communication		12-WUW-211-m01
Module coordinator		Module offered by
holder of the Professorship of Economic Journalism		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This seminar is offered as a preparatory seminar for the bachelor thesis. Basic scientific knowledge is taught. The focus is on the goal of independently preparing a well-founded scientific thesis. For this purpose, the individual steps from the generation of a research question to the actual survey are explained. In addition, an overview of scientific writing is provided.		
Intended learning outcomes		
<p>Upon completion of the seminar, students will be able to independently prepare a scientific paper.</p> <ul style="list-style-type: none"> <li>• Consolidation of the learned and, if necessary, application of further techniques of scientific work</li> <li>• Preparation, presentation, and defense of a scientific paper</li> <li>• Examination of the working papers of other seminar participants</li> <li>• Preparation for the Bachelor and Master Thesis</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (10 to 15 pages) and presentation (approx. 15 minutes); (weighted 1:1) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)          Bachelor's degree (1 major) Econometrics (2015)          Bachelor's degree (1 major) Business Information Systems (2015)          Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)          Bachelor's degree (1 major) Business Information Systems (2016)          Bachelor's degree (1 major) Econometrics (2017)          Bachelor's degree (1 major) Business Information Systems (2019)          Bachelor's degree (1 major) Business Management and Economics (2019)          Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)          Bachelor's degree (1 major) Business Information Systems (2020)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 208 / 333

Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Managerial Practice Lectures		12-VGP-192-m01
Module coordinator		Module offered by
holder of the Professorship of Economic Journalism		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this lecture, we invite board members of publicly listed companies, SMEs and Startups to discuss contemporary challenges of corporate management.</p> <p>Students gain sustainable insights into current management practices, challenges of corporate management in various industries, and discuss pressing managerial issues with C-level executives. In individual and group assignments, students are required to connect management theories with the managerial challenges of the speakers.</p> <p>Managers of the different companies are required to address the following questions that will foster a detailed discussion at the end of each lecture:</p> <ul style="list-style-type: none"> <li>- What are the current challenges facing your company?</li> <li>- Which strategies do you employ to respond to these challenges?</li> <li>- How have leadership concepts and approaches changed in your company?</li> </ul>		
Intended learning outcomes		
<p>After participating in this module, students should be able to combine theoretical approaches with current challenges in management. The students obtain a realistic insight into a cross-section of the German economy. Through discussions reports and group presentations students' social skills are trained in addition to professional skills.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>Portfolio (approx. 20 pages)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 210 / 333

Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Economist Practice Lectures		12-VWP-211-m01
Module coordinator		Module offered by
holder of the Senior Professorship for Economics, Money and International Economic Relations		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>The content of the seminar is the active participation in as well as the follow-up of the lectures of economists from different national and international fields of activity, which are organized for the event.</p> <p>The invitation of speakers from practice strengthens the practical orientation of the scientifically founded and at the same time internationally oriented education at the faculty of economics of the University of Würzburg.</p> <p>In this way, students will gain lasting insights into the fields of activity of economists, gain an insight into practical activities, discuss these with high-ranking economists and combine them with theoretical economic knowledge gained during their studies.</p>		
<b>Intended learning outcomes</b>		
<p>By participating in the seminar, Master's students of the faculty of economics and business administration should get to know the different fields of activity of economists and the questions that determine the daily work of the speakers in the course of the lectures.</p> <p>In addition, the participants of the seminar will have the opportunity to apply the knowledge of economics they have acquired during their studies. For this purpose, in addition to a discussion with the speakers following the respective lecture, a debating workshop is offered to the participants of the seminar, in which the students are to learn economic argumentation and debate management. The learned contents and competencies will be tested at the end of the semester.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) oral examination (approx. 30 minutes) or  b) term paper (approx. 10 pages) and presentation (approx. 15 minutes); (weighted 2:1) or  c) written examination (approx. 60 minutes)  Language of assessment: German and/or English</p>		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 212 / 333



Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Master's degree (1 major) China Business and Economics (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Challenges of China's Economic Rise			12-CCER-212-m01
Module coordinator		Module offered by	
holder of the Chair of China Business and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>This course will be taught in English. Over the last 30 years, China has experienced an unprecedented economic growth period. This economic success is awesome and challenging at the same time. Within this seminar we take a look at a selection of challenges resulting from China's economic rise. We look into challenges arising within China, but also into selected international ones. We approach the challenges by first looking at how they have been discussed in Western media. Starting from there we look 'behind the curtain' to analyse the topics and debates more in-depth in the context of China's economic rise and relevant economic theories. To attend this class you do not need ex ante knowledge about China. You should, however, be willing to read texts, also academic texts, in English language. Apart from reading, participants of the seminar are expected to prepare inputs for the seminar and to participate in class discussion. The seminar ends with a written examination.</p>			
Intended learning outcomes			
<p>Students of the seminar gain knowledge about China and its global relevance. In addition they learn how the experiences of an emerging markets at times defy mainstream economic theory.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or b) term paper (approx. 15 to 20 pages) and presentation (approx. 10 to 15 minutes), (weighted 2:1)</p>			
Allocation of places			
<p>20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.</p>			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
<p>Master's degree (1 major) China Business and Economics (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022)</p>			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 214 / 333

exchange program Business Management and Economics (2022)  
Bachelor's degree (1 major) Business Information Systems (2023)  
Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Business Management and Economics (2023)  
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Selected Topics of Business Management and Economics 1		12-APW1-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>c) oral examination (approx. 20 minutes)</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Economathematics (2021)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)</p> <p>Bachelor's degree (1 major) Economathematics (2022)</p> <p>Bachelor's degree (1 major) Economathematics (2023)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)</p>		

Module title			Abbreviation
Selected Topics of Business Management and Economics 2			12-APW2-212-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"><li>• courses taken at other German or non-German universities</li><li>• additional courses offered on a short-term basis</li><li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li></ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>			
Intended learning outcomes			
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or c) oral examination (approx. 20 minutes)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)			

Module title			Abbreviation
Social Commerce			12-SC-232-m01
Module coordinator		Module offered by	
holder of the Chair of Business Administration and Marketing		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>The transition from Web 1.0 to Web 2.0 was a milestone for the Internet - from static to interactive, social media and strong e-commerce emerged. These areas merged into social commerce. The course covers the origins and basics of social media &amp; e-commerce, defines social commerce, examines its business application, takes a look at future technologies (Web 3.0) and considers sustainability. This gives you a wide range of perspectives for understanding and shaping social commerce.</p> <p>Course structure:</p> <ol style="list-style-type: none"><li>1. The path to social commerce</li><li>2. Basics of social commerce</li><li>3. Social commerce</li><li>4. Social commerce management - integration into everyday business life</li><li>5. Social commerce in the future - influence of new technologies</li><li>6. Social commerce - acting responsibly</li></ol>			
Intended learning outcomes			
<ul style="list-style-type: none"><li>• Understanding the basics of social commerce (also from the areas of marketing &amp; e-commerce)</li><li>• Application of the course content to develop a social commerce strategy</li><li>• Self-competence through independent processing of the course content</li><li>• Social competence (in particular communication and cooperation) by working together on parts of the portfolio exam</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or</p> <p>b) portfolio (50 to 75 hours)</p> <p>Language of assessment: German and/or English</p> <p>creditable for bonus</p>			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 218 / 333

**Module appears in**

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Customer Analytics		12-CA-232-m01
Module coordinator		Module offered by
holder of the Junior Professorship of Marketing Analytics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Customer analytics involves collecting, managing, and analyzing customer data to gain insights and improve business decisions. Thanks to the explosive growth of media, channels, digital devices, and software applications, a wealth of customer data is now readily available and economically viable to collect. Customer analytics uses customer data along with economic theory, statistics, and econometric modeling to understand customer needs, preferences, and behavior. The goal of customer analytics is to provide companies with valuable information about their customers so they can make better decisions. This information can help them tailor their products, optimize marketing efforts, improve customer satisfaction, and ultimately increase revenue and profitability.</p> <p>This course provides a comprehensive understanding of fundamental principles, methods, and tools used in customer analytics. The first part of the course focuses on the importance of customer value and its impact on business success. Emphasis is placed on the key methods and analytical tools for assessing and effectively managing customer heterogeneity in data-driven marketing. The remainder of the course focuses on modeling the impact of marketing efforts on customer response, perceptions, and preferences, as well as the use of marketing attribution techniques. To provide a practical and engaging learning experience, the course includes hands-on applications of the material covered using real-world data and relevant software tools.</p>		
Intended learning outcomes		
<ul style="list-style-type: none"> <li>• Understand the importance of customer value and its impact on business success.</li> <li>• Learn key methods and analytical tools to effectively address customer heterogeneity in marketing strategies.</li> <li>• Develop practical data analysis skills for data-driven marketing decisions.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 220 / 333



### Module appears in

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Business Information Systems (2024)  
 Bachelor's degree (1 major) Econometrics (2024)  
 Bachelor's degree (1 major) Business Management and Economics (2024)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2024)  
 Bachelor's degree (1 major) Digital Business & Data Science (2024)  
 Bachelor's degree (1 major) Econometrics (2025)

Module title			Abbreviation
Data-Driven Supply Chain Management			12-DDSCM-232-m01
Module coordinator		Module offered by	
holder of the Chair of Logistics and Quantitative Methods		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This course aims to familiarize students with the pioneering methods of "Data-Driven Supply Chain Management (DSCM)". DSCM comprises novel methods that use machine learning to derive tactical and operational planning decisions in supply chain management from a variety of real data. These methods are not only the focus of a now very large field of research, but are also increasingly finding their way into commercial software systems to support supply chain management (e.g. SAP, Blue Yonder, etc.).			
Intended learning outcomes			
<ul style="list-style-type: none"><li>• Students understand the importance of data-driven decisions in SCM and the potential of machine learning.</li><li>• After the course, participants will know key DSCM procedures and their applicability to planning problems.</li><li>• Students learn to analyze corporate data and use machine learning to achieve better SCM planning results.</li><li>• Through case studies, participants recognize the transferability of insights to other SCM areas and potential implementation problems.</li><li>• Participants can describe real data descriptively using Python and implement DSCM procedures with machine learning after the course.</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) e) portfolio (50 to 75 hours) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			

JMU Würzburg's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 222 / 333
---	--	----------------

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Digitalization in Supply Chain Management		12-DSCM-232-m01
Module coordinator		Module offered by
holder of the Chair of Logistics and Quantitative Methods		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
In this seminar, selected developments in digital supply chain management are analyzed and discussed from a business perspective. It focuses on the economic evaluation of new approaches and their effects rather than on the development and application of new processes (the latter is the subject of the complementary seminar "Supply Chain Analytics").		
Intended learning outcomes		
<ul style="list-style-type: none"> <li>Participants will develop the ability to analyze and evaluate digital developments in supply chain management from a business perspective.</li> <li>Students will learn to critically discuss the economic impact of new approaches in supply chain management.</li> <li>They will gain an understanding of how digital innovations can influence the performance and efficiency of supply chains.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 224 / 333

Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Supply Chain Analytics		12-SCA-232-m01
Module coordinator		Module offered by
holder of the Chair of Logistics and Quantitative Methods		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This seminar offers a deep dive into the critical domain of supply chain management, emphasizing the role of data analysis and decision-making tools. The course revolves around essential topics such as forecasting, optimization, inventory management, and logistics. Leveraging real-world scenarios and practical applications, students will gain a comprehensive understanding of supply chain dynamics and the vital role of analytics in supply chain management.		
Intended learning outcomes		
Students will tackle real-world supply chain problems that involve interpreting complex data sets. They will be equipped with problem-solving skills that allow them to develop and implement robust solutions for various supply chain challenges. With a focus on practical problem-solving activities, this course will enable students to:		
1. Understand the key concepts and techniques of supply chain analytics.		
2. Implement forecasting and optimization models to make supply chain decisions.		
3. Evaluate and improve supply chain performance using relevant data.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1)		
Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015)		
Bachelor's degree (1 major) Economathematics (2015)		
Bachelor's degree (1 major) Business Information Systems (2015)		
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)		
Bachelor's degree (1 major) Business Information Systems (2016)		
Bachelor's degree (1 major) Economathematics (2017)		
Bachelor's degree (1 major) Business Information Systems (2019)		
Bachelor's degree (1 major) Business Management and Economics (2019)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 226 / 333

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Decision-Making in Organizations and Teams		12-DMOT-232-m01
Module coordinator		Module offered by
holder of the Junior Professorship of Applied Microeconomics, esp. Human-Machine Interaction		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Many economic activities result from individual decisions. Understanding these is necessary in order to grasp economic phenomena and effectively influence organizational outcomes. This course, therefore, provides an overview of economic decision-making in teams and organizations. It uses tools from microeconomic theory as well as empirical results from field studies and laboratory experiments. Topics covered in the course include, for example, team production, intrinsic motivation, monetary incentives and fairness, and the allocation of decision rights.</p> <p>We will discuss (in detail) various empirical and theoretical works on economic decision-making in teams and organizations. The relevant research articles will be made available to students.</p> <p>Some contents of the lecture can also be reviewed and studied using the following textbook: Gibbons, Robert, and John Roberts, eds. The Handbook of Organizational Economics. Princeton University Press, 2013.</p>		
Intended learning outcomes		
<p>With this course,</p> <ul style="list-style-type: none"> <li>• students will be able to understand and reflect on modern microeconomic concepts and current organizational economics.</li> <li>• students will learn to master and apply quantitative microeconomic methods.</li> <li>• students will be enabled to classify and relate specialized knowledge from theoretical microeconomics, experimental and empirical microeconomics, business administration, and psychology.</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or b) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 228 / 333



**Module appears in**

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Management & Digital Transformation		12-MDT-232-m01
Module coordinator		Module offered by
holder of the Junior Professorship of Applied Microeconomics, esp. Human-Machine Interaction		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The lecture Management and Digital Transformation offers a comprehensive introduction to the role of management in the context of the digital transformation of companies. Basic management concepts are taught from a (micro-)economic perspective and linked to the challenges, opportunities, and strategies of digital transformation. The lecture focuses on the organizational architecture and the distribution of decision-making competencies, on the use of machine learning for management decisions and the associated risks, as well as on strategic aspects, in particular the right decisions in the context of changing market conditions.		
Intended learning outcomes		
Students learn how the digital transformation affects organizations and their architecture. Problem-oriented thinking in strategic decision-making is encouraged to evaluate when and to what extent the application of new technologies can deliver value. They will become familiar with how incentives shape economic outcomes for individuals and firms. Furthermore, they will be able to apply basic concepts of game theory to strategic management decisions.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 230 / 333

Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)  
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation
Seminar: Information Systems and Engineering			12-Wise-FS-232-m01
Module coordinator		Module offered by	
holder of the Chair of Information Systems Engineering		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Drawing on current cutting-edge research, students are enabled to critically and independently analyze current research questions and to learn and apply research methods. The seminar style of the course teaches them to present their own seminar papers and research both in written and in oral form. Students are enabled to critically analyze and discuss the work of their peers.			
Intended learning outcomes			
<ul style="list-style-type: none"><li>• Academic literature research</li><li>• Integration of compiled results into scientific term papers</li><li>• Preparation of presentations and talks</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 20 pages) and presentation (approx. 20 minutes); (weighted 2:1) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019) Bachelor's degree (1 major) Business Information Systems (2020)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 232 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Seminar: Information Systems and Business Analytics		12-Wiba-FS-232-m01
Module coordinator		Module offered by
holder of the Chair of Business Analytics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this course, students will acquire important knowledge and skills that will enable them to prepare a well-structured term paper and to present the results of their work with the help of relevant topics in the field of business management decision models and methods and their application in the development of decision-support systems as well as analytical information systems and quantitative methods of data analysis.</p> <p>Students work on current topics using methods from machine learning, mathematical optimization and simulation.</p>		
Intended learning outcomes		
<p>The module provides students with knowledge of:</p> <ul style="list-style-type: none"> <li>• Scientific literature</li> <li>• Implementation of methods in code</li> <li>• Integration of developed results in scientific papers</li> <li>• Creating presentations and lectures</li> </ul>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (approx. 20 pages) and presentation (approx. 20 minutes); (weighted 2:1)		
Language of assessment: German and/or English		
creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p>		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 234 / 333

Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Seminar: Information Systems and Enterprise Artificial Intelligence			12-Wiki-FS-232-m01
Module coordinator		Module offered by	
holder of the Chair of Business Informatics and AI for Enterprise		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The seminar addresses advanced questions from research and teaching of the Chair for Enterprise AI. This includes both methodological questions from the fields of AI & Data Science and domain-specific questions from the areas of energy, mobility, and smart cities. An overview of the topics can be obtained by visiting the chair's website.			
Intended learning outcomes			
With the assistance of the chair, students learn to tackle a question according to scientific standards and to communicate the results in presentations and a written seminar paper.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
term paper (approx. 20 pages) and presentation (approx. 20 minutes); (weighted 2:1) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: each semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019) Bachelor's degree (1 major) Business Information Systems (2020)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 236 / 333	



Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Simulation for Decision Making			12-SDM-232-m01
Module coordinator		Module offered by	
holder of the Chair of Business Informatics and AI for Enterprise		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Many entrepreneurial and organizational questions ("When will a bank's liquidity be exhausted?", "How many employees are needed at minimum to keep customer waiting times tolerable?", "How many charging stations for electric vehicles are needed in a city?") involve complex interactions that managers cannot easily understand. Simulations replicate underlying systems and processes digitally, allowing modifications to be made to perform "What if..." analyses. This leads to a better understanding and ultimately more informed decisions.			
Intended learning outcomes			
The course teaches how to conduct simulation studies: from programming the simulation model, to aligning it with the real system, to conducting experiments and making decisions. Learning is "hands-on," with simulation models being programmed and studies conducted based on real-world examples. Prior knowledge in programming is helpful but not required.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) e) portfolio (50 to 75 hours) Language of assessment: German and/or English creditable for bonus			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 238 / 333	

Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Geospatial Data Analytics & Smart Cities		12-GDA-232-m01
Module coordinator		Module offered by
holder of the Chair of Business Informatics and AI for Enterprise		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The course teaches how to use spatial data (e.g., from Google Maps) to gain business-relevant insights and make decisions. Students learn to answer entrepreneurial and organizational questions based on data, primarily from urban areas - such as: In which neighborhood should I open my restaurant? What price can I achieve for a property in a specific location? How is mobility demand (for carsharing, e-scooters, etc.) distributed in a city, and how should the business area for such offerings be designed accordingly?		
Intended learning outcomes		
In this course, students will become proficient in geospatial data science. Students learn essential tools for data manipulation, spatial data handling, and more advanced spatial data analytics techniques like clustering as well as spatial machine learning. Students will gain the skills to extract meaningful insights from real-world geographical data and use them to solve business problems. The course covers both theoretical concepts as well as the necessary application-oriented tools (using Python and Jupyter notebooks) to become a skilled geospatial analyst ready to make data-driven decisions.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) e) portfolio (50 to 75 hours) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: after announcement		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 240 / 333

Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Data-Driven Decisions in Practice			12-DDD-232-m01
Module coordinator		Module offered by	
holder of the Chair of Business Informatics and AI for Enterprise		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>In the course of digital transformation, the amount of data sources on business and social processes is steadily increasing. Decision-makers face the question of how to use this data to develop more attractive products, improve processes, or increase customer satisfaction. The course "Data Driven Decisions (D3) in Practice" addresses how important business decisions can be better made using "big" data. The focus of the course is on implementing a structured process that includes the steps of problem definition and structuring, data collection and preprocessing, modeling and analysis, as well as decision-making.</p> <p>The course is collaboratively conducted by the Data Driven Decisions (D3) Group, consisting of the Chairs for Enterprise AI, Information Systems and Business Analytics, Information Systems and Systems Development, as well as the Chair for Logistics and Quantitative Methods</p>			
Intended learning outcomes			
<p>This course is strongly application- and practice-oriented. Using several case studies from various industries and business sectors (e.g., logistics, marketing, etc.), real entrepreneurial problems are examined, demonstrating how companies can make better decisions with the help of extensive data. Participants learn to apply fundamental methods from the fields of optimization and data science and to build data analysis pipelines. A basic understanding or a strong willingness to familiarize oneself with the basics of programming, data science, and optimization is expected.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) e) portfolio (50 to 75 hours) Language of assessment: German and/or English creditable for bonus</p>			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: summer semester			

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Data Science and Applied Econometrics in Business and Economics			12-DAS-232-m01
Module coordinator		Module offered by	
holder of the Chair of Data Science in Business and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This course offers an introduction to the fundamentals of causal inference and to widely used research designs in the social sciences. Students that attend this course should have some basic knowledge in statistics and econometrics. The course covers the following empirical methods: Repetition of statistical foundations, Simple Linear Regression (OLS + Assumptions), Multiple Regression (Multicollinearity, OVB, Categorical Variables, Interaction Terms), and many methods and designs related to causal inference (experiments, DiD, IV). The course covers applications in: Competition among firms, productivity, banking crisis, trade, growth, Taxes & investments ... and many more			
Intended learning outcomes			
After the course, students should be able to understand the basic concepts and methods of causal inference; should be able to read and interpret research and judge its credibility.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written examination (approx. 60 minutes) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: winter semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 244 / 333	



Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
<b>Seminar: Empirical and Experimental Psychology and Economics</b>		12-EV-232-m01
Module coordinator		Module offered by
holder of the Chair of Data Science in Business and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>In order to understand why some people are more successful in life than others, it is essential to understand why they behave the way they do in certain situations. Economic decisions are based on economic preferences: Would I rather have fun today or make provisions for later? Am I prepared to take risks or do I prefer to play it safe? Am I prepared to share with others or is my own advantage more important to me?</p> <p>A keen interest in empirical studies and a good knowledge of the contents of the statistics and econometrics lectures are therefore of great importance for successful participation in this seminar. Students are also expected to familiarize themselves in advance with the contents of the key qualification "Scientific Work".</p>		
<b>Intended learning outcomes</b>		
Students are introduced to the latest research questions and methods using exciting literature; they learn to analyze these topics critically and independently using seminar-based methods and to present them both orally and in writing and to critically examine the work results of other seminar participants.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Econometrics (2017) Bachelor's degree (1 major) Business Information Systems (2019)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 246 / 333

Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title			Abbreviation
Behavioral and Experimental Economics			12-BEE-232-m01
Module coordinator		Module offered by	
holder of the Junior Professorship of Microeconomics, esp. Economics of Digitization		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>Experimental methods have been increasingly employed in economics to collect decision data using randomization or in highly controlled environments. This course offers an introduction to the methodology of experimental economics and digital economic experiments.</p> <p>The methodology part explains why experiments are a good tool to generate scientific knowledge. Widely used techniques in experimental studies are explained and how economic experiments differ from experiments in other social sciences. This part also deals with data analysis and methods of reasoning, i.e., how inferences can be drawn from the evidence that is generated by experiments.</p>			
Intended learning outcomes			
<p>In this module,</p> <ul style="list-style-type: none"><li>• students are introduced to the methodology of economic experiments.</li><li>• students learn how to develop a research question and design an economic experiment to answer it.</li><li>• students are familiarized with the analysis of experimental data and learn how to draw causal conclusions from it.</li></ul>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2) Module taught in: German and/or English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English</p>			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 248 / 333

Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

Module title		Abbreviation
Globalization and the Environment		12-GAE-232-m01
Module coordinator		Module offered by
holder of the Junior Professorship of Quantitative International and Environmental Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Is international trade bad for the environment? Increasingly, the public debate on globalization raises concerns that global economic integration is linked to the relocation of pollution to developing countries, that it undermines the effectiveness of climate policy initiatives, or that it contributes to deforestation in the Global South, to name just a few examples. In this course, we will consider how globalization and the environment interact. The analysis will be rooted in trade theory, but complemented by empirical evidence, as well as illustrative case-studies of specific trade and environmental policies, e.g. on the environmental effects of the North American Free Trade Agreement and on the EU's upcoming Carbon Border Adjustment Mechanism. Students will become equipped with an analytical toolkit to assess questions in the globalization and environment nexus in a systematic fashion.		
<b>Intended learning outcomes</b>		
<ul style="list-style-type: none"> <li>• knowledge of key concepts in the trade &amp; environment nexus</li> <li>• ability to translate economic concepts into formal models</li> <li>• comparative statics analysis</li> <li>• descriptive analysis of key variables on the trade &amp; environment relationship using statistical software</li> </ul>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: German and/or English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (15 to 20 pages) or c) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or d) portfolio (50 to 75 hours) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: winter semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 250 / 333

Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)  
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)

## **Subfield Computer Science**

( ECTS credits)



Module title		Abbreviation
Software Technology		10-I-ST-152-m01
Module coordinator		Module offered by
Dean of Studies Informatik (Computer Science)		Institute of Computer Science
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Object-oriented software development with UML, development of graphical user interfaces, foundations of databases and object-relational mapping, foundations of web programming (HTML, XML), software development processes, unified process, agile software development, project management, quality assurance.		
<b>Intended learning outcomes</b>		
The students possess a fundamental theoretical and practical knowledge on the design and development of software systems.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (4) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
Teaching cycle: only in summer semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 49 I Nr. 1 b) § 69 I Nr. 1 b)		
<b>Module appears in</b>		
Bachelor's degree (1 major) Computer Science (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Human-Computer Systems (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Aerospace Computer Science (2015) First state examination for the teaching degree Realschule Computer Science (2015) First state examination for the teaching degree Gymnasium Computer Science (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Aerospace Computer Science (2017)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 253 / 333

Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Computer Science (2017)  
 Bachelor's degree (1 major) Computer Science (2019)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Module studies (Bachelor) Orientierungsstudien (2020)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Aerospace Computer Science (2020)  
 Bachelor's degree (1 major) Computer Science und Sustainability (2021)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Information Systems (2024)  
 Bachelor's degree (1 major) Econometrics (2024)  
 Bachelor's degree (1 major) Digital Business & Data Science (2024)

## Compulsory Electives Analysis

(5 ECTS credits)

Module title		Abbreviation
<b>Analysis 1 for Econometrics</b>		10-M-ANB1-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Real numbers and completeness; basic topological notions; convergence and divergence of sequences and series; power series and Taylor series; basics in differential calculus in one variable; basics of integral calculus in one variable (Riemann integral and improper integral).		
Intended learning outcomes		
The student knows and masters the essential methods and notions of analysis. He/She is acquainted with the central proof methods in analysis and can employ them to solve easy problems. He/she is able to perform easy mathematical arguments independently and to express mathematical arguments precisely and clearly in written form.		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		

Module title		Abbreviation
<b>Analysis 2 for Econometrics</b>		10-M-ANB2-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Further topological considerations, basics in differential calculus in several variables, inverse function theorem, implicit function theorem.		
Intended learning outcomes		
The student knows and masters the essential methods and notions of analysis. He/She is acquainted with the central proof methods in analysis and can employ them to solve easy problems. He/she is able to perform easy mathematical arguments independently and to express mathematical arguments precisely and clearly in written form.		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		

## **Compulsory Electives Linear Algebra**

(5 ECTS credits)

Module title		Abbreviation
Linear Algebra 1 for Econometrics		10-M-LNB1-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Basic notions and structures; vector spaces, linear maps, systems of linear equations; theory of matrices and determinants.		
<b>Intended learning outcomes</b>		
The student knows and masters the basic notions and essential methods of linear algebra. He/She is acquainted with the central proof methods in linear algebra and can apply them to solve easy problems. He/She is able to perform simple mathematical arguments independently, and can present them adequately in written form.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		

Module title		Abbreviation
Linear Algebra 2 for Econometrics		10-M-LNB2-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Eigenvalue theory, bilinear forms, Euclidean and unitary vector spaces, diagonalisation and Jordan normal form.		
<b>Intended learning outcomes</b>		
The student knows and masters the basic notions and essential methods of linear algebra. He/She is acquainted with the central proof methods in linear algebra and can apply them to solve easy problems. He/She is able to perform simple mathematical arguments independently, and can present them adequately in written form.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		



## Key Skills Area

(20 ECTS credits)

## General Key Skills

(5 ECTS credits)

In addition to the modules listed below, students may also take modules offered by JMU as part of the pool of general transferable skills (ASQ).

## General Key Skills (subject-specific)

( ECTS credits)

Module title			Abbreviation
Exercise tutor or proof-reading in Mathematics			10-M-TuKo-152-mo1
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	(not) successfully completed	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Tutoring or grading homework for one of the basic courses in the Bachelor's or teaching degree programmes under supervision of the respective lecturer or exercise supervisor.			
Intended learning outcomes			
The student is able to support the acquisition of mathematical skills and knowledge. He/She helps to identify mistakes in mathematical proof exercises and to find possible solutions.			
Courses (type, number of weekly contact hours, language — if other than German)			
T (o)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
Assessment of tutoring activities or correcting work by supervising lecturers or exercise supervisors (1 to 2 teaching units or approx. 5 pieces of correcting work)			
Allocation of places			
--			
Additional information			
Please direct application to teaching coordinator Mathematics, he/she will select participants.			
Workload			
150 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
§ 22 II Nr. 3 f)			
Module appears in			
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) First state examination for the teaching degree Gymnasium Mathematics (2019) Bachelor's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022) exchange program Mathematics (2023) First state examination for the teaching degree Gymnasium Mathematics (2023) Bachelor's degree (1 major) Mathematics (2023)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 264 / 333

Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Mathematical Physics (2024)  
Bachelor's degree (1 major) Econometrics (2024)  
Bachelor's degree (1 major) Econometrics (2025)

Module title			Abbreviation
E-Learning and Blended Learning Mathematics 1			10-M-VHB1-152-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
2	(not) successfully completed	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Becoming familiar with and reflecting techniques in e-learning and blended learning in mathematics.			
Intended learning outcomes			
The student is able to employ basic methods of e-learning and blended learning in mathematics-			
Courses (type, number of weekly contact hours, language — if other than German)			
Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester			
Allocation of places			
--			
Additional information			
--			
Workload			
60 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022) exchange program Mathematics (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Mathematical Physics (2024) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 266 / 333

Module title			Abbreviation
E-Learning and Blended Learning Mathematics 2			10-M-VHB2-152-m01
Module coordinator		Module offered by	
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
2	(not) successfully completed	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Becoming familiar with and reflecting techniques in e-learning and blended learning in mathematics.			
Intended learning outcomes			
The student is able to employ advanced methods of e-learning and blended learning in mathematics-			
Courses (type, number of weekly contact hours, language — if other than German)			
Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester			
Allocation of places			
--			
Additional information			
--			
Workload			
60 h			
Teaching cycle			
--			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022) exchange program Mathematics (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Mathematical Physics (2024) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 267 / 333

## Subject-specific Key Skills

(15 ECTS credits)



## Subject-specific Key Skills, Compulsory Courses

(12 ECTS credits)

Module title		Abbreviation
Basic Notions and Methods of Mathematical Reasoning		10-M-GBM-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
2	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Introduction to the basic notions and proof techniques in mathematics: approach to sets, formal logic and maps.		
<b>Intended learning outcomes</b>		
The student gets acquainted with the basic working techniques which are prerequisites for the further courses in the Bachelor's degree study programme.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (1) + Ü (1)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
project (10 to 15 pages) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
Additional information on module duration: block taught prior to the beginning of the lecture period.		
<b>Workload</b>		
60 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 22 II Nr. 1 h) § 22 II Nr. 2 f)		
<b>Module appears in</b>		
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Realschule Mathematics (2015) First state examination for the teaching degree Mittelschule Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015)) Bachelor's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 270 / 333

exchange program Mathematics (2023)  
Bachelor's degree (1 major) Mathematics (2023)  
Bachelor's degree (1 major) Econometrics (2023)  
Bachelor's degree (1 major) Mathematical Physics (2024)  
Bachelor's degree (1 major) Econometrics (2024)  
Bachelor's degree (1 major) Econometrics (2025)

Module title		Abbreviation
Reasoning and Writing in Mathematics		10-M-ASM-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
2	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Introduction to fundamental methods of thinking and proving, basic techniques in mathematics as well as mathematical writing; insight into examples of abstracts concepts in mathematics; approach to axiomatic and deduction.		
<b>Intended learning outcomes</b>		
The student is acquainted with the basic proof methods and techniques in mathematics. He/She is able to perform easy mathematical arguments independently and present them adequately and reasonably in written and oral form.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (1) + Ü (1)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
project (10 to 20 pages) Language of assessment: German and/or English		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
60 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022) exchange program Mathematics (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Economathematics (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 272 / 333

Bachelor's degree (1 major) Mathematical Physics (2024)  
Bachelor's degree (1 major) Econometrics (2024)  
Bachelor's degree (1 major) Econometrics (2025)

Module title		Abbreviation
External Internship Business Mathematics		10-M-EPW-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
8	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The module consists of a placement of approximately six weeks at a company or another organisation related to business mathematics and the subsequent presentation of the placement report.		
Intended learning outcomes		
The student has practical experience in the relevant fields and is able to apply the skills obtained in his/her studies.		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
report on practical course (10 to 20 pages) and oral presentation thereof (approx. 20 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
240 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Econometrics (2017) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		

## **Subject-specific Key Skills, Compulsory Electives**

(3 ECTS credits)

Module title		Abbreviation
Computational Mathematics		10-M-COM-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
4	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Introduction to modern mathematical software for symbolic computation (e. g. Mathematica or Maple) and numerical computation (e. g. Matlab) to supplement the basic modules in analysis and linear algebra (10-M-ANA-G and 10-M-LNA-G). Computer-based solution of problems in linear algebra, geometry, analysis, in particular differential and integral calculus; visualisation of functions.		
<b>Intended learning outcomes</b>		
The student learns the use of advanced modern mathematical software packages, and is able to assess their fields of application to solve mathematical problems.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (1) + Ü (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
project in the form of programming exercises (approx. 20 to 25 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
120 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 22 II Nr. 3 f)		
<b>Module appears in</b>		
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Physics (2015) Bachelor's degree (1 major) Nanostructure Technology (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Functional Materials (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) First state examination for the teaching degree Gymnasium Mathematics (2019) Bachelor's degree (1 major) Physics (2020)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 276 / 333



Bachelor's degree (1 major) Nanostructure Technology (2020)  
 Bachelor's degree (1 major) Mathematical Physics (2020)  
 Bachelor's degree (1 major) Functional Materials (2021)  
 Bachelor's degree (1 major) Quantum Technology (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Mathematical Data Science (2022)  
 exchange program Mathematics (2023)  
 First state examination for the teaching degree Gymnasium Mathematics (2023)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Mathematical Physics (2024)  
 Bachelor's degree (1 major) Econometrics (2024)  
 Bachelor's degree (1 major) Functional Materials (2025)  
 Bachelor's degree (1 major) Econometrics (2025)

Module title		Abbreviation
Programming course for students of Mathematics and other subjects		10-M-PRG-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
Basics of a modern programming language (e. g. C).		
<b>Intended learning outcomes</b>		
The student is able to work independently on small programming exercises and standard programming problems in mathematics.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
P (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
project in the form of programming exercises (approx. 20 to 25 hours) Language of assessment: German and/or English Assessment offered: Once a year, summer semester		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
90 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 22 II Nr. 3 f)		
<b>Module appears in</b>		
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Physics (2015) Bachelor's degree (1 major) Nanostructure Technology (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Functional Materials (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) Bachelor's degree (1 major) Mathematical Physics (2016) Bachelor's degree (1 major) Economathematics (2017) First state examination for the teaching degree Gymnasium Mathematics (2019) Bachelor's degree (1 major) Physics (2020) Bachelor's degree (1 major) Nanostructure Technology (2020) Bachelor's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Functional Materials (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 278 / 333

Bachelor's degree (1 major) Quantum Technology (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Mathematical Data Science (2022)  
 exchange program Mathematics (2023)  
 First state examination for the teaching degree Gymnasium Mathematics (2023)  
 Bachelor's degree (1 major) Mathematics (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Mathematical Physics (2024)  
 Bachelor's degree (1 major) Econometrics (2024)  
 Bachelor's degree (1 major) Functional Materials (2025)  
 Bachelor's degree (1 major) Econometrics (2025)

Module title		Abbreviation
Elementary Quantitative Risk Assessment		10-M-VHB-EQRA-222-m01
Module coordinator		Module offered by
--		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
--		
Intended learning outcomes		
--		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 minutes); web-based Language of assessment: English		
Allocation of places		
--		
Additional information		
--		
Workload		
90 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Econometrics (2022) exchange program Mathematics (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Econometrics (2024) Bachelor's degree (1 major) Econometrics (2025)		

Module title		Abbreviation
Student Teaching Assistant 1		12-Tut1-152-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This module includes tutoring activities in a tutorial offered by a Chair at the Faculty of Business Management and Economics.		
<b>Intended learning outcomes</b>		
Students have the ability to guide a group, to present content understandable and to develop training materials.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ä (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written elaboration (approx. 15 to 25 pages) and presentation (approx. 90 minutes), weighted 1:1		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)		

Module title		Abbreviation
Student Teaching Assistant 2		12-Tut2-152-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This module includes tutoring activities in a tutorial offered by a Chair at the Faculty of Business Management and Economics.		
<b>Intended learning outcomes</b>		
Students have the ability to guide a group, to present content understandable and to develop training materials.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ä (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written elaboration (approx. 15 to 25 pages) and presentation (approx. 90 minutes), weighted 1:1		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)		

Module title		Abbreviation
Introduction to Scientific Work		12-WA-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The following topics will be covered:</p> <ul style="list-style-type: none"> <li>• Introduction to the subject: explanation of terms, purpose and benefits of academic writing and research</li> <li>• Stages of academic writing and research:</li> <li>• Stage 1 : orientation and planning</li> <li>• Stage 2 : collecting and evaluating material</li> <li>• Stage 3 : writing a draft</li> <li>• Stage 4 : revision and submission</li> <li>• Time management</li> <li>• Presentation</li> </ul>		
Intended learning outcomes		
Students acquire knowledge of scientific methods. Many chairs and departments of the faculty recommend to participate or expect successful participation ahead of the application process for the bachelor thesis.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Written elaboration (approx. 5 pages) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
90 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)		

Module title		Abbreviation
<b>Seminar: Cross-Cultural Management 1 - Introduction to Cross-Cultural Management</b>		12-EinCCM-152-mo1
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Description:</p> <p>This course provides students with the necessary background knowledge and an overall understanding of culture and prepares them for the course "Wenn Kulturen aufeinander treffen - Führen zwischen den Kulturen" ("When Cultures Collide -- Leading Across Cultures"). The series of courses is taught on the basis of the context of daily international business and is filled with many international business scenarios, simulations and case studies.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Culture and its origins - the roots and routes of culture</li> <li>2. How culture is influenced by climate and religion</li> <li>3. Cultural black holes</li> <li>4. Culture and globalisation</li> <li>5. Life after September 11th</li> <li>6. The categorisation of cultures</li> </ol>		
Intended learning outcomes		
Students have gained a deeper understanding and background of what culture is and where culture comes from. They have learned about their culture in order to gain insight into their own individual cultural make-up.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or</p> <p>c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or</p> <p>d) term paper (approx. 20 pages)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
35 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		



**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
Cross-Cultural Management 2 - Leading Across Cultures		12-VerCCM-152-mo1
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Description:</p> <p>This is the intermediate module of the Cross-Cultural Management series. On the surface, communication appears to be a relatively simple operation requiring two basic components -- a speaker and a listener. This module focuses mainly on the world of business and tackles head on the issues and problems of international exchanges. The series is taught on the basis of the context of daily international business and is filled with many international business scenarios, simulations and case studies. Reading includes the texts "Wenn Kulturen aufeinander treffen - Führung zwischen Kulturen" ("When Cultures Collide -- Leading Across Cultures") and "Cross-Cultural Communication - Ein visueller Ansatz" ("Cross-Cultural Communication -- A visual Approach"). "For a German and a Finn, the truth is the truth. In Japan and Britain, it is all right if it doesn't rock the boat. In China, there is no absolute truth. In Italy, it is negotiable." The course will look at the link between values and communication and at how cultural messages unconsciously filter through into the language we use to influence others and how our words may have a different impact than intended which often times can lead to misunderstanding and a loss of trust and business.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Brief review of the origins of culture</li> <li>2. Status, leadership &amp; organisation</li> <li>3. Team building &amp; horizons</li> <li>4. Motivating people &amp; trust</li> <li>5. Business meetings</li> <li>6. Introduction to 80 cultures in 8 regions of the world</li> </ol>		
Intended learning outcomes		
Students have continued to deepen their understanding of culture including their own personal cultural background. Students have gained a heightened awareness of the importance of cross-cultural competence and the dangers of relying on culturally bound intuitions.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or</p> <p>c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or</p> <p>d) term paper (approx. 20 pages)</p> <p>Language of assessment: German and/or English</p>		
Allocation of places		
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		

<b>Additional information</b>
--
<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: each semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>exchange program Business Management and Economics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>

Module title		Abbreviation
China: Business location and trading partner		12-IBL-SG-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This module will discuss reasons as well as implications of the globalisation of our society, both from the point of view of private persons and from the point of view of companies. Current examples from the media will be used to illustrate the impact of globalisation on everyday life.		
<b>Intended learning outcomes</b>		
The students will know how globalization influences both, the private life of people as well as the conditions under which companies can perform their businesses. Accordingly, they will be able to discuss the issue of globalization based on advanced knowledge.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or d) term paper (approx. 20 pages)		
<b>Allocation of places</b>		
30 (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 288 / 333

Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
India: Business location and trading partner		12-WSI-212-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module introduces students to the economic development as well as economic policy in India. In addition, the course will discuss the general conditions for business investments and activities in India. To illustrate the topic and provide students with more in-depth insights, the course will also address current economic issues and their backgrounds.		
Intended learning outcomes		
The students will be able to discuss and evaluate the economic structures of India. They will have the abilities to analyze the development of the South-Asian economy by applying adequate methods and theories. Furthermore, students will gain a good understanding of the Indian culture and its influence on business relationships.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or d) term paper (approx. 20 pages)		
Allocation of places		
30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Econometrics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Econometrics (2022) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Econometrics (2023) Bachelor's degree (1 major) Business Management and Economics (2023)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 290 / 333

Module title		Abbreviation
Intercultural Business Competence		12-IKG-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This lecture discusses challenges of globalisation from an economic point of view. Based on a basic overview of leadership in a global world, the topic of multiculturalism in a business context is discussed in detail. Simulations, case studies and exercises are used to illustrate relevant issues.		
Intended learning outcomes		
Students have gained a comprehensive understanding of relevant topics regarding globalization in the business context. In addition, students have learned how to interact with colleagues and business partners in a cross-cultural environment.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or d) term paper (approx. 20 pages)		
Allocation of places		
30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: after announcement		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 291 / 333

Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)



Module title		Abbreviation
Intercultural Management 1		12-IM1-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module offers an introduction to intercultural management. It will sensitise students to the international world of business, in which an awareness of cultural differences is essential, and will thus prepare them for entering an international labour market. Having discussed globalisation as a context of justification and having put intercultural management in the context of international management, the course will introduce students to different concepts of culture and will investigate how international operations affect corporate culture. In addition, the course will discuss special forms of international cooperation, such as sending employees abroad. The course will not only equip students with the theoretical basics of intercultural management but will also provide them with an opportunity to apply the theories in practice, working on case studies and team exercises.</p> <p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>1. Multiculturalism: a phenomenon in a global(ised) economy</li> <li>2. The phenomenon of culture</li> <li>3. Cultural dimensions</li> <li>4. Corporate culture</li> <li>5. Typical application situations</li> </ol>		
Intended learning outcomes		
<p>Students are able to evaluate key concepts, theories and models in intercultural management and have developed an in-depth understanding of their own cultural backgrounds as well as the cultural backgrounds of others. They understand how culture influences perception, both on an individual and on a collective level, and thus also impacts processes of perception in the world of work. The course places particular emphasis on enhancing the students' intercultural skills.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or  b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or  c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or  d) term paper (approx. 20 pages)</p>		
Allocation of places		
<p>30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
--		
Workload		
150 h		

<b>Teaching cycle</b>
Teaching cycle: after announcement
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>

Module title		Abbreviation
Intercultural Management 2		12-IM2-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
This module will provide students with more in-depth insights into selected topics in intercultural management from an economic point of view. Students will prepare a term paper, exploring a topic in more detail.		
<b>Intended learning outcomes</b>		
The students have gained a deeper understanding of specific issues of intercultural management and will be able to communicate this verbally and in writing.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or b) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or c) term paper (approx. 20 pages)		
<b>Allocation of places</b>		
10 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: after announcement		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 295 / 333

Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title			Abbreviation
Global Systems and Intercultural Competences - Economic Aspects of Globalization. An Introduction			12-EinGS-152-mo1
Module coordinator		Module offered by	
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
This module introduces students to the topic of "Global Systems" from an economic point of view. In addition to imparting factual knowledge about global connections, the course also focuses on issues of intercultural management.			
Intended learning outcomes			
Students have acquired a basic understanding of the underlying processes of globalization and are able to recognize the resulting requirements for individuals and companies. In particular, the students are sensitized of the importance and the influence of cultural differences in the business world.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or d) term paper (approx. 20 pages)			
Allocation of places			
10 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 297 / 333

Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title			Abbreviation
Global Systems and Intercultural Competences - Economic Aspects of Globalization - Advanced Level			12-VerGS-152-mo1
Module coordinator		Module offered by	
holder of the Chair of Business Management and Industrial Management		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Building on introductory courses, this module will provide students with more in-depth insights into the topic of #Global Systems# from an economic point of view. Students will prepare a term paper exploring a topic in more depth and will present the contents during the seminar.			
Intended learning outcomes			
The students have gained a deeper understanding of specific issues of globalization and will be able to communicate this verbally and in writing.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or b) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or c) term paper (approx. 20 pages)			
Allocation of places			
10 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 299 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)



Module title		Abbreviation
Economic and Business Ethics		12-WUE-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The aim of the seminar is to provide students with an overview of business ethics. First, basic philosophical terms are clarified and important philosophical theories such as utilitarianism or discourse ethics are introduced. The course discusses how business ethics can be justified and what purpose it can serve. The seminar focuses on the question of what ethical challenges companies face and to what extent companies are moral agents and should include ethical considerations in their actions. Afterwards, the seminar discusses the relationship between the free market and morality and the role of the state for the frame order.		
Intended learning outcomes		
After finishing this course, the student should be able by using common scientific methods to write a seminar paper dealing with a selected ethical problem in business. They should be able to present a complex problem in an clear and understandable way and they should discuss the own position with convincing arguments with other participants in the class.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) presentation (approx. 20 minutes) and written elaboration (approx. 15 to 20 pages), weighted 1:2		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 301 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
Securities Management		12-WPM-192-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Corporate Finance		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Within the framework of this module, students are familiarized with the management of an investment portfolio. Each participant has to manage a special area, for which he/she presents the most important market events in a condensed form in each session and observes the securities account positions belonging to his/her special area. A securities account provided by Castell-Bank Würzburg is managed. Each participant has to prepare his own investment proposals and take part in the general discussion. Based on group discussions, investment decisions are made to buy and sell securities within the securities account. These investment decisions are based on risk considerations as well as tax aspects, which will be introduced to the participants during the course. Furthermore, in addition to macroeconomic topics closely related to securities investment, the course also focuses on the development of the real estate sector.</p>		
Intended learning outcomes		
<p>Upon completion of the securities seminar, students will be able to</p> <p>(i) independently assess securities of different asset classes with regard to their risk/reward profile, both on an individual security level and in a portfolio context</p> <p>(ii) and present and discuss their assessments in a target group-oriented manner.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (4)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Presentation (approx. 60 minutes)		
Allocation of places		
<p>20 places.</p> <p>(1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects.</p> <p>(2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure.</p> <p>(3) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 303 / 333

Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
<b>DATEV - Introduction to DATEV-Software for Tax Accounting</b>		12-DAT-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Taxation		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
The module will introduce students to processes regarding accounting, taxation, financial statements and the audit of these using the DATEV software. DATEV is one of the standard systems used by tax consultants and accountants. Students will not only become familiar with the basics, they will also acquire insights into the processes and functionalities. In the theoretical part, students will acquire the necessary skills that will serve as a basis for the practical part. This practical part will present students with an opportunity to apply their newly acquired knowledge by working with a DATEV system on case studies on the model company Müller & Thurgau GmbH.		
<b>Intended learning outcomes</b>		
Students acquire practical knowledge in using the DATEV software package for daily book-keeping and for producing annual reports.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
<b>Allocation of places</b>		
10 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: each semester		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 305 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
SAP ERP Human Capital Management		12-SAP-152-m01
Module coordinator		Module offered by
holder of the Chair for Human Resource Management and Organisation		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This course will familiarise students not only with basic concepts but also with the processes and functions of SAP Enterprise Resource Planning Human Capital Management. In the theoretical part of the course, students will first acquire the knowledge and skills that will serve as a basis for the practical part. This practical part will then present students with an opportunity to apply what they have learned by working with an ERP system on case studies on the model company LIVE AG.		
Intended learning outcomes		
Goal of this course is to give students insights in the practical application and the possibilities and limits of SAP Enterprise Resource Planning Human Capital Management covering several human capital and organisation topics.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 minutes)		
Allocation of places		
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: each semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 307 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)



Module title		Abbreviation
Managerial Problem Solving		12-MPS-152-m01
Module coordinator		Module offered by
holder of the Chair of Business Analytics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The course provides an introduction to data-based methods for modeling and solving quantitative business problems. In particular, Microsoft Excel is used to manage, visualize, and analyze data. In addition, mathematical optimization problems are solved using Excel Solver and the fundamentals of programming with VBA are discussed.		
Intended learning outcomes		
<ol style="list-style-type: none"> <li>1. Prepare, visualize and analyze data sets using Excel</li> <li>2. Select and forecast different time series problems</li> <li>3. Understand simple, multiple and dummy regressions</li> <li>4. Implement and solve linear optimization problems using the Excel Solver</li> <li>5. Fundamentals of Excel VBA programming</li> </ol>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 minutes) or b) portfolio: completion of exercises (approx. 12 exercise sheets, approx. 3 pages each) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
40 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Econometrics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Econometrics (2017) Bachelor's degree (1 major) Business Information Systems (2019)		
Bachelor's with 1 major Econometrics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 309 / 333

Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 exchange program Business Management and Economics (2022)

Module title			Abbreviation
Basics of Supply Networks			12-GSN-152-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
3	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
1. Introduction 2. Development of supply networks 3. Structural and methodical deficits of classic order processing 4. Collaborative networks 5. Supply network models 6. Five steps towards a collaborative network 7. Demands on SNM solutions 8. Architecture of SNM solutions 9. Integration of SNM, ERP and CRM			
Intended learning outcomes			
This course provides the bases in the area Supply of Networks (SN) for students of the economic informatics and the economics.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or c) presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or d) term paper (approx. 20 pages) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
90 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 311 / 333

Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title			Abbreviation
Management of Supply Networks			12-MSN-192-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
3	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
1. Execution of SCM projects 2. Critical factors for success in SCM projects 3. Effects of SCM on business processes 4. Supply chain performance management/measurement 5. Supply chain risk management 6. New demands on firms and networks			
Intended learning outcomes			
This course advances students of the economic informatics and economics which already orders of grounding in the area Supply of Networks (cf. moreover the basis course "bases of the Supply Network"), to the management of Supply Networks and the duties linked with it and effects.			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) Written examination (approx. 60 minutes) or b) Term paper (approx. 15 pages) and presentation (approx. 15 minutes), weighted 2:1 or c) Presentation (approx. 45 minutes) and term paper (approx. 10 pages), weighted 1:1 or d) Term paper (approx. 20 pages) Language of assessment: German and/or English			
Allocation of places			
--			
Additional information			
--			
Workload			
60 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) Bachelor's degree (1 major) Economathematics (2022)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 313 / 333	

Module title		Abbreviation
Professional Apply		12-PWS-152-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
2	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this course, students will learn how to be professional when applying and interviewing for jobs.</p> <p>Part 1: Application documents  Topic 1: Cover letter  Topic 2: Curriculum vitae  Topic 3: Certificates and other documents</p> <p>Part 2: Job interview  Topic 1: Preparation  Topic 2: Typical structure  Topic 3: Appearance and behaviour</p>		
Intended learning outcomes		
Students are able to write a professional motivational letter, as well as an ideal CV, related on their professional field. They are also familiar with the typical process of a job interview and have skills to appear properly.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written elaboration (approx. 5 to 10 pages) and presentation (approx. 15 minutes), weighted 1:1		
Allocation of places		
--		
Additional information		
--		
Workload		
60 h		
Teaching cycle		
Teaching cycle: after announcement		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019)		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 314 / 333

Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title			Abbreviation
Professional Presentation			12-PPR-152-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
2	(not) successfully completed	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
In this course, students will acquire professional presentation skills. Topic 1: structuring a presentation Topic 2: visual representation (PPP) Topic 3: professional appearance Topic 4: moderating discussions			
Intended learning outcomes			
Students are able to structure presentations useful and to illustrate them visually. Furthermore, they have the necessary rules for professional demeanor and appearance. They are able to moderate (critical) discussions professionally.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
presentation (approx. 15 to 30 minutes)			
Allocation of places			
--			
Additional information			
--			
Workload			
60 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 316 / 333	



Bachelor's degree (1 major) Econometrics (2022)

Module title			Abbreviation
Management Case Studies			12-P&Ocase-F-152-mo1
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The module will focus on equipping students with the skills necessary for solving a variety of case studies. These case studies will focus on the practical application of theoretical knowledge for the solution of practical problems and will provide students with an opportunity to apply the management tools they were taught. A particular emphasis will be on equipping students with skills in the areas of strategic thinking and the operational implementation of strategies. Participants will be issued a certificate of attendance.			
Intended learning outcomes			
Students are able to solve case studies according to international standards.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
written elaboration (approx. 5 to 10 pages) and presentation (approx. 20 to 30 minutes), weighted 1:1 Language of assessment: German and/or English			
Allocation of places			
16 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (1 major) Business Management and Economics (2019) Bachelor's degree (1 major) Business Information Systems (2020) Bachelor's degree (1 major) Business Information Systems (2021)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 318 / 333

Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title		Abbreviation
Managing interactive - Business Simulation Game		12-MIU-152-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
<b>Contents</b>		
<p>Consolidation of business knowledge in virtually all functional areas (procurement/logistics, human resources, investment, finance, business planning, accounting etc.).</p> <p>The module should make participants aware of the fact that business decisions require joined-up thinking between the different functional areas. The companies that participants are confronted with are fictitious but very close to reality. Participants will learn to understand the complexity of these companies as well as the business solutions and techniques applied by them. For a simulated period of time, participants will be required to make autonomous decisions (in groups).</p>		
<b>Intended learning outcomes</b>		
Students learn to apply the necessary data for corporate management methods and tools in concrete, simulated business situations.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 15 pages) or</p> <p>c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) or</p> <p>d) presentation (approx. 20 to 30 minutes) or</p> <p>e) project (approx. 20 hours)</p> <p>Language of assessment: German and/or English</p>		
<b>Allocation of places</b>		
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
Teaching cycle: after announcement		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p>		
Bachelor's with 1 major Economathematics (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	page 320 / 333

Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

Module title			Abbreviation
Project Management			12-PM-F-152-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>This module will acquaint students with basic concepts and methods of project management and project planning with a special focus on IT projects.</p> <p>The following contents will be covered:</p> <ul style="list-style-type: none"><li>• Organisational forms in projects</li><li>• Project management tasks</li><li>• Project team and project responsibilities</li><li>• Project planning (structure, schedule, capacity, time and cost planning)</li><li>• Project phases (project initiation, project planning, project execution, project close, project control)</li><li>• Project management tools</li><li>• Critical path methods (CPM, MPM, PERT)</li><li>• Risk analysis</li><li>• Project management software</li></ul>			
Intended learning outcomes			
<p>The students recognize the economic potential of a consistent project planning and the influence on compliance of project objectives such as deadlines and costs. The students are familiar with methods and tools of project planning and may use them in work.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
V (2) + Ü (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (approx. 15 pages) or</p> <p>c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) or</p> <p>d) project (approx. 20 hours)</p> <p>Language of assessment: German and/or English</p> <p>creditable for bonus</p>			
Allocation of places			
<p>35 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.</p>			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: no courses offered			

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

--

**Module appears in**

Bachelor's degree (1 major) Business Management and Economics (2015)  
 Bachelor's degree (1 major) Econometrics (2015)  
 Bachelor's degree (1 major) Business Information Systems (2015)  
 Bachelor's degree (1 major) Business Information Systems (2016)  
 Bachelor's degree (1 major) Econometrics (2017)  
 Bachelor's degree (1 major) Business Information Systems (2019)  
 Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)

Module title			Abbreviation
Career planning and professional skills for students of Business and Economics			12-CC-KPBK-222-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
<p>The module was designed in cooperation with the university's Career Centre specifically for students on Bachelor degree programs in the field of business and economics and is taught by lecturers from the Career Centre. In addition to teaching subject-related key skills, it offers support with career orientation and starting a career in the field of business and economics.</p> <p>As part of the module, students exchange ideas with people from different cultures on interesting topics in order to promote intercultural skills, get to know professional fields for graduates in business and economics and receive information on the various fields of activity. With the help of a strengths/weaknesses analysis, the participants' personal key competencies are analysed and potential for improvement is identified. Guidelines for the design of the CV and cover letter as well as an unsolicited application are covered and the preparation of professional application documents is learnt. Participants practise their presentation skills and how to deal with real job interviews using their individual strengths.</p>			
Intended learning outcomes			
<p>After completing the module, students will be familiar with career prospects, be able to create appealing application documents and be confident in job interviews. They are also prepared for intercultural encounters and have a feel for the different behaviours and approaches of people from different cultures. Students will have mastered the preparation of a comprehensive application portfolio and the special features of unsolicited applications. They are also familiar with argumentative principles for dealing with job interviews.</p> <p>Students can deal well with the general and specific requirements for graduates in the field of business and economics when finding and starting a career.</p>			
Courses (type, number of weekly contact hours, language — if other than German)			
S (4)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
<p>a) Written examination (approx. 60 minutes) or</p> <p>b) Term paper (approx. 15 pages) or</p> <p>c) Term paper (10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) or</p> <p>d) oral examination (approx. 20 minutes) or</p> <p>e) Portfolio (50 to 75 hours)</p>			
Allocation of places			
<p>15 places, WB5</p> <p>Should the number of applications exceed the number of available places, places will be allocated as follows:</p> <p>(1) Places will be allocated according to the number of subject semesters independent of subject. Among applicants with the same number of subject semesters, places will be allocated by lot.</p> <p>(2) A waiting list will be maintained and places re-allocated as they become available.</p>			
Additional information			
--			



<b>Workload</b>
150 h
<b>Teaching cycle</b>
Teaching cycle: each semester
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
--
<b>Module appears in</b>
<p>Bachelor's degree (1 major) Business Management and Economics (2015)</p> <p>Bachelor's degree (1 major) Econometrics (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2015)</p> <p>Bachelor's degree (1 major) Business Information Systems (2016)</p> <p>Bachelor's degree (1 major) Econometrics (2017)</p> <p>Bachelor's degree (1 major) Business Information Systems (2019)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2019)</p> <p>Bachelor's degree (1 major) Business Information Systems (2020)</p> <p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>

Module title		Abbreviation
General Management 1		12-GM1-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>c) oral examination (approx. 20 minutes)</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Economathematics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Economathematics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Economathematics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>		

Module title		Abbreviation
General Management 2		12-GM2-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>c) oral examination (approx. 20 minutes)</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Economathematics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Economathematics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Economathematics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>		

Module title		Abbreviation
General Management 3		12-GM3-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
3	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>c) oral examination (approx. 20 minutes)</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
90 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Econometrics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Econometrics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>		

Module title		Abbreviation
General Management 4		12-GM4-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module serves the purpose of transferring credits from</p> <ul style="list-style-type: none"> <li>• courses taken at other German or non-German universities</li> <li>• additional courses offered on a short-term basis</li> <li>• courses offered by new Chairs that are yet to be included in the FSB (subject-specific provisions)</li> </ul> <p>The holders of the respective Chairs will ensure that the courses are eligible for credit transfer.</p>		
Intended learning outcomes		
As a result of accrediting multiple kinds of modules, a description of acquired skills cannot be given.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (approx. 60 minutes) or</p> <p>b) term paper (10 to 15 pages) and presentation (approx. 20 minutes); (weighted 2:1) or</p> <p>c) oral examination (approx. 20 minutes)</p>		
Allocation of places		
--		
Additional information		
--		
Workload		
90 h		
Teaching cycle		
Teaching cycle: no courses offered		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
<p>Bachelor's degree (1 major) Business Information Systems (2021)</p> <p>Bachelor's degree (1 major) Economathematics (2021)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2021)</p> <p>Bachelor's degree (1 major) Economathematics (2022)</p> <p>Bachelor's degree (1 major) Business Information Systems (2023)</p> <p>Bachelor's degree (1 major) Economathematics (2023)</p> <p>Bachelor's degree (1 major) Business Management and Economics (2023)</p>		

Module title			Abbreviation
Training of Intercultural Competences			12-IK-232-m01
Module coordinator		Module offered by	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
The module "Intercultural Skills Training" offers a holistic view of the skills required for successful interaction and cooperation in intercultural contexts. Content typically includes cultural diversity awareness, intercultural communication, conflict resolution in intercultural situations, cultural value systems and their impact on behavior and decision making, and strategies to promote intercultural teamwork and leadership. In addition, case studies, role plays and practical exercises are often used to actively involve participants in the learning process and strengthen their skills in dealing with cultural diversity.			
Intended learning outcomes			
The module aims to develop participants' understanding, empathy and flexibility to operate effectively in global work environments and multicultural societies. After the course, participants will have the skills and understanding to navigate successfully in an increasingly interconnected and diverse world and to build and maintain positive relationships in intercultural contexts.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (2)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)			
a) term paper (5 to 10 pages) and presentation (15 to 30 minutes) or b) term paper (10 to 15 pages) or c) written examination (approx. 60 minutes) or d) portfolio (approx. 30 hours) or e) oral examination in groups of up to 3 candidates (approx. 30 minutes per candidate)			
Allocation of places			
--			
Additional information			
--			
Workload			
150 h			
Teaching cycle			
Teaching cycle: after announcement			
Referred to in LPO I (examination regulations for teaching-degree programmes)			
--			
Module appears in			
Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Business Information Systems (2015) Bachelor's degree (1 major) Business Information Systems (2016) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Business Information Systems (2019)			
Bachelor's with 1 major Economathematics (2022)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Wirtschaftsmathematik - 2022	
		page 330 / 333	

Bachelor's degree (1 major) Business Management and Economics (2019)  
 Bachelor's degree (1 major) Business Information Systems (2020)  
 Bachelor's degree (1 major) Business Information Systems (2021)  
 Bachelor's degree (1 major) Econometrics (2021)  
 Bachelor's degree (1 major) Business Management and Economics (2021)  
 Bachelor's degree (1 major) Econometrics (2022)  
 Bachelor's degree (1 major) Business Information Systems (2023)  
 Bachelor's degree (1 major) Econometrics (2023)  
 Bachelor's degree (1 major) Business Management and Economics (2023)

## Thesis Area

(10 ECTS credits)

Students may write their theses in Mathematik (Mathematics), Wirtschaftsmathematik (Mathematics for Economics) or Informatik (Computer Science) or may write an interdisciplinary thesis within these three subjects.



Module title		Abbreviation
Thesis Economathematics		10-M-BAW-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	The supervisor may make the successful completion of certain modules that are relevant for the respective topic a prerequisite for the assignment of the topic.
<b>Contents</b>		
Independently researching and writing on a (potentially interdisciplinary) topic in mathematics, economics or computer science selected in consultation with the supervisor.		
<b>Intended learning outcomes</b>		
The student is able to work independently on a given, possibly interdisciplinary topic in mathematics, economics or computer science and apply the skills and methods obtained during the study programme. He/She can write down the result of his/her work in a suitable form.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
No courses assigned to module		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Bachelor's thesis (approx. 275 to 330 hours)		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
Time to complete: 10 weeks.		
<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Bachelor's degree (1 major) Economathematics (2015) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Economathematics (2025)		