

Summer Semester 2019

English-taught courses

at the

Otto von Guericke University Magdeburg, Germany



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General Information

Explanations: Level: B = Bachelor; M = Master.

Hours: 1 SWS = 45 minutes;

L = Lecture, T = Tutorial, U=Exercise, S = Seminar, P=Training

BS=Compact Course, HS=Advanced Seminar, PS=Undergraduate Seminar,

ECTS:

ECTS = all-European credit transfer system (not relevant for non-European students).

If there is more than one number for ECTS, you can choose between different options to conclude the seminar (for example exam or oral presentation).

Some course descriptions include no credit (ECTS) information. Please consult the lecturer for this information. The lecturers' contacts can be found in LSF, under the relevant course details: <https://lsf.ovgu.de/qislsf/rds?state=user&type=0>

- This is a list of the courses offered in the summer semester 2019. It's an orientation for the courses offered in summer semester 2020, because most courses are offered annually, but there is no guarantee that the courses will be offered again.
- No responsibility is taken for the correctness of the course information. Courses are subject to changes and other courses might be added.
- The courses you wish to take at OVGU should correspond to your study program at your home institution. All courses you wish to take at OVGU must be agreed upon in your Learning Agreement with your home coordinator and with the OVGU departmental coordinator.
- Access to specific courses hereunder cannot be guaranteed in advance. We reserve the right to check the applicant's academic qualification for any such course.

1 Faculty of Humanities, Social Sciences and Education (FHW)

Course Name	Level	Hours/ week	ECTS
Applied Conflict Management and Mediation	M	BS	10
Avantgarde Drama: Samuel Beckett & Harold Pinter	B/M	2U	2/4/6
Comparing and connecting Humanitarian Action and Development Assistance	M	2S	4/6
Dystopian Film and Fiction	B/M	2S	4/6
Einführung in die Außen- und Sicherheitspolitik (Introduction to foreign and security Policy)	B	2L	4/6
EU Foreign Policy Instruments: EU Democracy Promotion in Non-EU-Countries	B	2S	4/6
EU-Governance: Are Civil Society Organizations Democratizing the EU?	M	2S	4/6
EU Governance System	B	2L	4
EU Policy Cycle	M	2S	10
European Integration: The Europeanization of Social Movements	B	2S	4/6
Filmclass: Four Women in Cinema Today	B/M	2S	2/4/6
Globalization and Transnational Social Movements	M	2S	4/6
Historical roots of English	B/M	2L	4/6
History and Theory of Literature and Culture I: 16th to 18th Century	B/M	2L	2/4/6
Imaginary Countries	B/M	2S	4/6
Im/politeness in cultural contexts	M	2HS	4/6/10
International Conflict Management	M	BS	4
Language in contemporary public space	B/M	2PS	4/6
Language Practice A	B	2U	2
Language Practice B	B	2S	2
Mapping Britain	B/M	2S	4/6
Masters Language Practice	M	2U	4
Menschenrechte, Sicherheit und Entwicklung: Kritische	M	2S	4/6

Perspektiven auf den Nexus (Human rights, security and development: critical perspectives on the nexus)			
Methods of Peace and Conflict Studies	M	2S	10
Names as potential sources of conflict	M	2HS	4/6
Narratives of the First World War in Britain's Collective Memory	B	2S	4/6
Natural Resource Conflicts: Minerals, Shale Gas and Coal	M	2S	4/5/6
Online-Kommunikation und Soziale Medien (Online Communication and Social Media)	B	2PS	4
Philosophy of Computation and Neurocognition	B/M	2L	
Pop-Culture and World Politics, Peace and Conflict	M	2S	4/6/10
Postcolonial Approaches to South-East Asia	M	2S	4/6
Problems of Identity: Personal, Regional. National and Other Identities	B/M	2HS	4/6
Qualitative Methods in Peace and Conflict Studies: An Overview	M	2S + 2T	10
Southern Writers: Eudora Welty & Carson McCullers	B/M	2S	2/4/6
The importance of Habit in Making Predictions in the Sciences and in Everyday Life (Locke, Hume, Aristotl)	B/M	2S	4/6
The Language of Advertising	B	2PS	4/6
The Phylogeny of the Self: Workshop with Rupert Glasgow	B	BS	2/4
Transitional Justice	M	BS	4/6
William Faulkner: The sound and the Fury	B/M	2U	2

2 Faculty of Economics and Management (FWW)

Course Name	Code	Level	Hours/week	ECTS
Advanced Business Analytics / Intelligent Data Analysis	22032/ 50014	B/M	2L+2U+2T	5
Advanced Computational Transportation	22033	B/M	2L+2U	5
Bargaining, Arbitration, Mediation	20812	B/M	2L+2U	5
Behavioral Business Economics	21004	B/M	BS	10
Business Decision Analysis	41057	B	3L/U+T	5
Business Forecasting	22035	B/M	2L+2U	5
Business Planning	20624	B/M	2L+1U	5
Collective Decision-Making in Organizations	20623	M	2L+1U	5
Company Valuation	22373	B/M	2L+2U	5
Computational Finance and Financial Management	22047	B/M	2S	10
Consumer Behavior	20322	B/M	2L+1U	5
Current Trends in Marketing Research	21013	B/M	4S	10
Doing Business in Eastern Europe: The case of Ukraine	21158	B	2L+1U	5
Economic Policy	41071	B/M	2L+1U	5
Economics of International Business	21682	B/M	2L+1U	5
Empirical Corporate Finance	22045	B/M	2S	10
Empirical Finance	50008	B/M	2L+2U	5
Evidence-Based Policy Analysis	50004	B/M	2L+2U	5
Financial Engineering	50760	B/M	2L+2U	5
Financial Institutions	50009	B/M	2L+2U	5
Firms, Workers, and Wages	22386	B/M	2S	10
Household Finance	21454	B/M	2S	10
International Business Plan	22203	B	2S	10
International Corporate Development and Leadership	22383	B/M	4S	5/10
International Technology, Innovation, and	22390	B/M	2L+2U	5

Marketing Management				
Introduction to Econometrics	41092	B	2L+2U	5
Introduction to International Economics	41038	B/M	2L+2U	5
Law and Finance	21697	M	2S	10
Management Accounting	41066	B	2L+2U	5
Marketing Methods & Analysis	50566	B/M	2L+2U	5
Microeconomics	41062	B	4L+2U	10
Model Building with Excel and SPSS	22387	B	2L	5
Multicultural and Interactive Marketing Communication	22034	B/M	2L+1U	5
Open Economy Macroeconomics	50007	B/M	2L+1U	5
Population and Family Economics	22036	B/M	2L+1U	5
Principles of International Management	11040/41040	B	2L+1U	5
Secrets of Innovation in Multinational Companies	22038	B/M	2S	10
Spare Parts Planning	22378	B/M	3S	10
Stochastic Models in Production and Logistics	50001	M	2U	
Supply Chain Management	20179	B/M	2L+2U	5
The Economics of Banking and Financial Systems	21451	B	2L+2U	5

3 Faculty of Process and Systems Engineering (FVST)

Course Name	Level	Hours/ week	ECTS
Air Pollution Control	M	3L + 1U	4
Chemistry	M	3L	5
Control of toxic trace elements	M	3L/U	
Explosion-protected equipment	M	2L	
Fire Safety in Industrial Facilities	M	2L + 3U	4
Introduction in "Mehrphasenströmungen"	M	2L/U	4
Legal Issues in Plant Operation and Process Safety	M	2L	3
Methods of Risk Analysis	M	2L + 1U	4
Modern organic synthesis	M	2L	3

4 Faculty of Computer Sciences (FIN)

Course Name	Level	Hours/ week	ECTS
Advanced Database Models	M	2L + 2U	6
Advanced Topics in Databases	M	2L + 2U	6
Advanced Topics in Knowledge Management and Discovery KMD	M	2S	6
Advanced Topics in Machine Learning	M	2L + 2U	6
Computational Intelligence in Games	B/M	2L + 2U	5
Computer-Supported Diagnosis of Cardiovascular Diseases	B	2S	3
Computer Vision and Deep Learning	M	4L/U	6
Data and Knowledge Engineering	M	2S	6
Data Mining II - Advanced Topics in Data Mining	M	2L + 2U	6
Data Mining I - Introduction to Data Mining	B/M	2L + 2U	6
Datenbanken 1 (Database Concepts)	B/M	2L + 2U	
Evolutionary Multi-Objective Optimization	M	2L + 2U	6
Flow Visualization	M	2L	6
Fuzzy Systems	M	4L + 4U	6
Introduction to Computer Vision	B/M	2L + 2U	5
Introduction to Software-Engineering for Engineers	M	2L+2S+2U	5
Learning Generative Models		2L + 2U	6
Management of Global Large IT-Systems in International Companies	M	4 L/U	6
Medical Visualization	M	2L	6
Mesh Processing	B	4 L/U	5
Principles and Practices of Scientific Work	M	2L + 2T	
Recent Topics in Business Informatics	M	2S	6
Computational Intelligence in Swarm Robotics	M	2S	6
Human-Computer Interfaces in Medicine	B/M	BS	3
Visual Analytics	M	2L + 2U	6
Student Conference	M	4L	6

5 Faculty of Electrical Engineering and Information Technology (FEIT)

Course Name	Level	Hours/ week	ECTS
Anatomy for Engineering students	B/M	3L/U	
Applied Neuroscience - from study design in motor research to brain-computer-interfaces		S	
Computer Tomographie - Theorie und Anwendung (Computer tomography – theory and usage)	M	2L + 1U	
Digital Information Processing Lab	M	2P	5
Distributed Control Systems	M	2L + 1U	
Einführung in die Medizinische Bildgebung (Physikalische Grundlagen) (Introduction to medical imaging – physical principles)	B/M	2L + 1U	
FPGA and Microcontroller Programming (Part 1/2)	M	2P	
Image Guided Surgeries	M	4L/U	5
Introduction into nuclear medicine	M	2L + 1U	
Introduction to Programming Techniques in Engineering	M	4L	5
Introductory event 'Medical Systems Engineering'	M	S	
Lab course CT	M	P	
Medical Measurement Technology	M	2L + 2S	
Power Systems Control and Optimization	M	3L/U	
Process Control	M	2L + 1U	
Project "Electrical Actuators"	M	P	
Project "Electric Power Networks/ Renewable Energy Sources"	M	P	
Project "Power Electronics"	M	P	
Radiological Diagnostics	B/M	1L	
Renewable Energy Sources	M	2L + 1U	
Scientific Working	M	S	
Simulation in Medicine and Medical Engineering	M	S	
Solution Design in Medical Engineering		2S	5

6 Faculty of Natural Sciences (FNW)

Course Name	Level	Hours/ week	ECTS
Molecular & Cellular Neurobiology	M	P + 2L +2S	
Development & Plasticity	M	2L + 2S/U	3
Systems Neurophysiology	M	3L	4
Systems Neurophysiology (Auditory systemic electrophysiology)	M	P	2
Systems Neurophysiology (Electrophysiology Methods)	M	P	2
Learning & Memory	B/M	3L	4
Theoretical Neuroscience II	M	3L + 2S/U	3 / 4
Advanced Statistics for Neuroscience	M	L + U	3
Mikrofluidik: Theorie und Anwendungen, Teilmodul (Microfluidics: theory and usage – part module)	B/M	2L	4

7 Faculty of Mathematics (FMA)

Course Name	Level	Hours/ week	ECTS
Biological Statistics	M	2L + 2U	
Introduction to Probability and Statistics	B	2L + 2U	5
Mathematical Methods II	B	2L + 3U	
Model Reduction for Dynamical Systems	M	4 L/U	6
Seminar Geometric formulations of inviscid fluids and their discretization	M	2S	5

8 Faculty of Mechanical Engineering (FMB)

Course Name	Level	Hours/ week	ECTS
CAX Basics	M	2L + 2U	5
Engineering Design II	M	4L + 4U	
Factory Automation	M	3L/U	
Mechanics of Materials	M	2L + 2U	5