

Summer Semester 2016

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/Exercise, S = Seminar.

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

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 preliminary list, based on course offerings of the previous year/on the actual information. 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 per week	ECTS
Does Psychology Reduce to Neuroscience?	B/M	2S	
E. A. Poe & Nathaniel Hawthorne	B	2S	4
English in Postcolonial and Trans-Cultural Contexts	M	2S	4/6
General Language Practice	B	2T	4
Historical Roots of English	B	2L	4
Identity and Scepticism in European Thought	M	2S	4/6
Im/potiteness in cultural contexts	M	2S	4/6
Intercultural Communication	B	2S	4/6
Introduction to Cultural Studies	B	2T	4
Introduction to Linguistics 2: Morphology	B	2T	4
Introduction to Literary Studies 2: Introducing to Oscar Wilde	B	2T	4
Landscape and Myth	B	2S	4/6
Language in Politics: Great Britain and her Relation to the European Union	B	2S	4/6
Language in the USA	B	2S	4/6
Names as potential sources of conflict	M	2S	4/6
Orange is the New Black	M	2T	4
Psycholinguistics	B	2S	4/6
The Idea of the Garden in English Literature	B	2S	4/6
The Idea of Toleration	B	2S	6/4
The Language of War and Terrorism	M	2S	4/6
Vague language and misunderstandings	B	2s	4/6
European Union Institutions, Politics and Policies	B	2S	6
Introduction to	M	2S	6

Conflict Management			
Islam in Global Politics	M	2S	6
Mediation in Practice	M	2S	10
Human Rights and Conflict	M	2S	6
Multi-Level Governance	M	2S	6

2 Faculty of Economics and Management (FWW)

Academic Skills	B	2S	4
Advanced Business Economics	M	2S	6
Bargaining, Arbitration, Mediation	M	2L + 2T	6
Behavioral Business Economics	M	2S	6
Business Planning	M	2L + 1T	6
Corporate Finance	M	2L + 1T	6
Current Issues on Applied International Economics	M	3S	6
Current Trends in Marketing Research	M	2S + 2T	6
Economic Policy	B	2L + 2T	6
Evidence-based Business Strategy	M	2S + 1T	6
Executive Compensation	M	2S	6
Household Finance	M	2S	6
Innovation Finance	M	2S	6
Institutional Economics for Managers: Theory and Applications	M	2L + 2T	6
International Marketing	B	2L + 1T	6
International Trade	M	3L	6
Introduction to Applied Econometrics II	B	2L + 2T	6
Introduction to International	B	2L + 1T	5

Management			
Macroeconomics	B	4L + 2T	9
Management Accounting	B	2L + 2T	5
Marketing Management	B	2L + 2T	2/6
Marketing Methods & Analysis	M	2L + 2T	6
Microeconomic Tools for Labor Market Research and Policy Evaluation	M	2S	6
Microeconomics	B/M	4L + 2T	10
Personnel Economics	M	4 L/T	6
Population and Family Economics	M	3 L + 1T	6
Production Management and Operations Research	B	2L + 2T	6
Service Operations Management	M	2L + 2T	6
Sustainable Enterprise Development	B	2L + 2T	6
Sustainable International Business	B	2S + 1T	6
Tax Accounting Research - Conforming & Non-Conforming Tax Planning	M	2S + 2T	6
The Econometrics of Financial Intermediation	B/M	2L + 1T/2L	6/6
Theory of Corporate Finance	M	2L	6
Topics in Empirical Finance	M	2L + 1T	6

3 Faculty of Process and Systems Engineering (FVST)

Biofuels: Sustainable Production and Utilisation	M	2L + 1T	
Cell Culture Engineering	M	2L + 1T + 1 Praktikum	
Chemical Reaction Engineering	B/M	2L + 2T	
Chemistry	M	3L	
Computational Fluid Dynamics (CFD) (Englisch) [Registration per e-mail]	M	1L + 2T	
Control of toxic trace elements	M	2L + 1T	
Electrochemical Process Engineering	M	2L + 1T	
Environmental Politics, Strategies and Economy		L	
Experimental fire and explosion protection		2 Praktikum	
Experimental Virology	M	1T + Praktikum (5h every week)	
Fluid Dynamics	M	2L + 2T	
Industrial Energy Management	M	2L + 1T	
Literaturseminar Bioprocess Engineering	B	2S	
Mechanical Process Engineering	M	2L + 2T	
Micro Process Engineering	B/M	2L + 1T	
Modern organic	M	2L	

synthesis			
Nanoparticle Technology	B/M	2L + 2T	
Product quality in the chemical industry	M	2L + 1T	
Shut Down Management		L	
Statistical Software Solution for Quality Evaluation & Processes		L	
Transport phenomena in granular, particulate and porous media	M	2L + 1T	
Technology and Innovation Management in the Biotech Industry	M	2S	
Advanced Heat and Mass Transfer	M	2L + 2T	

Advanced Database Models	M	2L + 2T	
Advanced Topics in Databases	M	2L + 2T	
Advanced Topics in Knowledge Management and Discovery KMD	M	2S	6
Advanced Topics in Machine Learning	M	2L + 2T	
Computational Creativity	M	4S	6
Computational Intelligence in Games	B/M	2L + 2T	5/6
Computer-Assisted Surgery	B/M	4L + S in June	5/6
Data and Knowledge Engineering	B/M	2S	3
Data and Knowledge Engineering (Projektpraktikum)	M	2T (Projekt)	3
Datenbanken 1 (Database Concepts)	B/M	2L + 2T	5
DigiEng Project on Variability Management for Robotics	M	4 T(Forschungsprojekt)	12
Flow Visualization	M	2L + 2T	6
Intelligent Data Analysis	M	2L + 2T	6
Introduction to Software-Engineering for Engineers	M	2L + 4T	5
Management of Global Large IT-Systems in	M	2L + 2T	6

International Companies			
Medical Visualization	M	2L + 2T	6
Mesh Processing	B/M	2T + 2L	5
Modellierung mit UML, mit Semantik	M	2L + 2 T	6
Multimedia Retrieval	M	2L + 2T	6
Scientific Project: Databases for Multi-Dimensional Data, Genomics, and modern Hardware	M	4T (Forschungsprojekt)	6
Human-Computer Interfaces in Medicine	B/M	2S	3
Startup Engineering III	M	4T (Forschungsprojekt)	6
Student Conference	M	2L	6
Teamprojekt der AG KMD	M	2T (Forschungsprojekt)	6
Topics in Algorithmics	M	2L + 2T	6

5 Faculty of Electrical Engineering and Information Technology (FEIT)

Advanced Power Electronics	M	1L + 2T (1 Projekt)	5
Anatomy for Engineering students	B/M	2L + 1T	
Digital Information Processing Lab	M	2T	5
Distributed Control Systems	M	2T	
Einführung in die Medizinische Bildgebung (Physikalische Grundlagen)	B/M	2L + 1T	
FPGA and Microcontroller Programming (Part 1/2)	M	2T (Praktikum)	
Introduction into nuclear medicine	M	2L + 2T	
Medizinische Bildgebung - Computer Tomographie - Theorie und Anwendung	M	2L + 1T	
Modern Concepts of EMC and EMC Measurements	M	2L + 1T	
Nontechnical Project "Electrical Actuators"	M	3T (Forschungsprojekt)	5
Nontechnical Project "Electric Power Networks/ Renewable Energy Sources"	M	3T (Forschungsprojekt)	5
Nontechnical Project "Power Electronics"	M	3T (Forschungsprojekt)	5
Power Systems Control	M	3L/T	

and Optimization			
Process Control	M	2L + 1T	
Radiological Diagnostics	B/M	1L	
Renewable Energy Sources	M	2L + 1T	
Scientific Working / Journal Club	M	S	
Simulation in Medicine and Medical Engineering	M	S	

Cellular Neurophysiology	M	2L + 2T + 1S	6
Basic Molecular & Cell Biology	M	3L + 1T + 1S	5
Integrative & Comparative Neuroanatomy	M	3L + 1T + 2S	6
Neuroethology	B/M	2L +	3
Theoretical Neuroscience I	M	3L + 2S	5
Introduction to Matlab	B/M	2T	3/2
Journal Club	M	2S	3
Genetic Models	M	1L + 2T	4
Neuroendocrinology / -inflammation and CNS Infections	M	2L + 2T	4
Neural Signalling	M	2L + 2T	4
Quantitative Signal Transduction	M	2L + 2T	4
Cognitive Neurobiology	M	2L + 1T	4
Behavioural Pharmacology	M	2L + 1T	4
Macroimaging	M	2L + 2,5T	4
Microimaging	M	2L + 2T	4
Spiking Networks	M	2L + 1T	4
Clinical Neuroscience	M	3L	4
Cognitive Neuroimaging	M	2L	
Introduction to Nervous Systems	B	2L	4
Labrotation I	M	4T	
Labrotation III	M	3T	
Wahrnehmungspsychologie	B	1S	2

7 Faculty of Mathematics (FMA)

Mathematical Foundations	B/M	2L + 2T	5
Mathematical Methods I	B	2L + 3T	
Mathematics for Business	M	2L + 2T	
Methods for Economists	M	2L + 2T	6
Statistical Estimation and Testing	B/M	4L + 2T	
Stochastic Processes	M	2L + 1T	