

English taught courses, winter term 2013/14

Bachelor level

Faculty:		Architecture			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Architecture (B.Sc.)	Archives of Migration	Seminar	2	3	English

Faculty:		Arts and Humanities			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
English Studies (B.A.)	(Haupt)Seminar Cultural Studies/Landeskunde (A): Republic of Ireland and Northern Ireland	Seminar (HS)	2	6	English
English Studies (B.A.)	(Haupt)Seminar Cultural Studies/Landeskunde (C): An English-speaking World	Seminar (HS)	2	6	English
English Studies (B.A.)	Advanced Course A	Practical course (Ü)	2	According to study regulations	English
English Studies (B.A.)	Basic Course A (Übung)	Practical course (Ü)	2	According to study regulations	English
English Studies (B.A.)	Basic Course A (vorlesungsartige Veranstaltung)	Practical course (Ü)		According to study regulations	English
English Studies (B.A.)	Contrastive Linguistics	Lecture (V)	2		English
English Studies (B.A.)	Corpus-based translation studies	Introductory seminar (PS)	2	8	English
English Studies (B.A.)	Introduction to Cultural Studies	Lecture (V)	2	2	English
English Studies (B.A.)	Introduction to English Linguistics I	Lecture (V)	2	According to study regulations	English
English Studies (B.A.)	Introductory Course Lecture	Lecture (V)	2	According to study regulations	English
English Studies (B.A.)	Lecture Course: American Literature and Culture: A Survey	Lecture (V)	2	According to study regulations	English
English Studies (B.A.)	Linguistic Methods, Group 2	Practical course (Ü)	2	According to study regulations	English
English Studies (B.A.)	Literary Theory: A Survey for Advanced Students	Lecture (V)	2	2	English
English Studies (B.A.)	Proseminar (A): History and Identity in Contemporary Canadian Fiction (group 1)	Introductory seminar (PS)	2	According to study regulations	English

English Studies (B.A.)	Proseminar (B): History and Identity in Contemporary Canadian Fiction (group 2)	Introductory seminar (PS)	2	According to study regulations	English
English Studies (B.A.)	Proseminar (C): Introduction to Pragmatics	Introductory seminar (PS)	2	8	English
English Studies (B.A.)	Proseminar (C): The British Novel after 1980	Introductory seminar (PS)	2	According to study regulations	English
English Studies (B.A.)	Proseminar (D): A History of the American Short Story - Periods, Genres, Themes and Form	Introductory seminar (PS)	2	According to study regulations	English
English Studies (B.A.)	Regional Flavors of the USA	Seminar (HS)	2	6	English
Language Center	Academic Skills 1.b	Language course (SK)	2	According to study regulations	English
Language Center	Advanced Academic English 3/ CAE Preparation Course	Language course (SK)	2	According to study regulations	English
Language Center	Business & Industry	Language course (SK)			English
Language Center	Conference English for Doctoral Candidates (Advanced)	Language course (SK)	2		English
Language Center	Conference English for Doctoral Candidates (Intermediate)	Language course (SK)	2		English
Language Center	English Communication for Postdoctoral Researchers	Language course (SK)			English
Language Center	Focus on Business 1.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 3+4 Intensive Refresher Course a	Language course (SK)	4	According to study regulations	English
Language Center	MK 5 Academic Skills 1.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 5 Academic Skills 1.c	Language course (SK)	2	According to study regulations	English
Language Center	MK 5 Academic Skills 1.d	Language course (SK)	2	According to study regulations	English
Language Center	MK 5 Focus on Business 1.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 5 Focus on Business 1.c	Language course (SK)	2	According to study regulations	English
Language Center	MK 5 Focus on Business 1.d	Language course (SK)	2	According to study regulations	English

Language Center	MK 5 Technical English 1.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 5 Technical English 1.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 5+6 Academic Skills 1+2.a	Language course (SK)	4	According to study regulations	English
Language Center	MK 5+6 Academic Skills 1+2.b	Language course (SK)	4	According to study regulations	English
Language Center	MK 6 Academic Skills 2.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 6 Academic Skills 2.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 6 Focus on Business 2.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 6 Focus on Business 2.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 6 Technical English 2	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Academic Skills 3.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Academic Skills 3.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Academic Skills 3.c	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Academic Skills 3.d	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Academic Skills 3.e	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Focus on Business 3.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Focus on Business 3.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Focus on Business 3.c	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Focus on Business 3.d	Language course (SK)	2	According to study regulations	English

Language Center	MK 7 Technical English 3.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Technical English 3.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Technical English 3.c	Language course (SK)	2	According to study regulations	English
Language Center	MK 7 Technical English 3.d	Language course (SK)	2	According to study regulations	English
Language Center	MK 7+8 Academic Skills 3+4.a	Language course (SK)	4	According to study regulations	English
Language Center	MK 7+8 Academic Skills 3+4.b	Language course (SK)	4	According to study regulations	English
Language Center	MK 8 Academic Skills 4.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 8 Academic Skills 4.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 8 Focus on Business 4.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 8 Focus on Business 4.b	Language course (SK)	2	According to study regulations	English
Language Center	MK 8 Technical English 4.a	Language course (SK)	2	According to study regulations	English
Language Center	MK 8 Technical English 4.b	Language course (SK)	2	According to study regulations	English
Language Center	OK Academic Communication 1.a (Writing Skills)	Language course (SK)	2	According to study regulations	English
Language Center	OK Academic Communication 1.b (Writing Skills)	Language course (SK)	2	According to study regulations	English
Language Center	OK Academic Communication 1.c (Writing Skills)	Language course (SK)	2	According to study regulations	English
Language Center	OK Academic Communication 2.a (Oral Skills)	Language course (SK)	2	According to study regulations	English
Language Center	OK Academic Communication 2.b (Oral Skills)	Language course (SK)	2	According to study regulations	English
Language Center	OK Business Matters 1.a	Language course (SK)	2	According to study regulations	English

Language Center	OK Business Matters 1.b	Language course (SK)	2	According to study regulations	English
Language Center	OK Business Matters 2	Language course (SK)	2	According to study regulations	English
Language Center	OK English Communication for Engineers 1.a	Language course (SK)	2	According to study regulations	English
Language Center	OK English Communication for Engineers 1.b	Language course (SK)	2	According to study regulations	English
Language Center	OK English Communication for Engineers 2.a	Language course (SK)	2	According to study regulations	English
Language Center	OK English Communication for Engineers 2.b	Language course (SK)	2	According to study regulations	English
Language Center	OK European Topics 1+2 (Intensive Course)	Language course (SK)	4	6	English
Language Center	Proficiency Masterclass 1a/ CPE Preparation Course	Language course (SK)	2	According to study regulations	English
Language Center	Proficiency Masterclass 1b/ CPE Preparation Course	Language course (SK)	2	According to study regulations	English
Language Center	Scientific Writing for Doctoral Candidates Module 1a: The Language of Scientific Writing	Language course (SK)	2	According to study regulations	English
Language Center	Scientific Writing for Doctoral Candidates Module 1b: The Language of Scientific Writing	Language course (SK)	2		English
Language Center	Scientific Writing for Doctoral Candidates Module 2a: Essential Techniques for Writing Good Scientific Texts	Language course (SK)	2	According to study regulations	English
Language Center	Scientific Writing for Doctoral Candidates Module 2b: Essential Techniques for Writing Good Scientific Texts	Language course (SK)	2		English
Language Center	Scientific Writing for Doctoral Candidates Module 3a: Writing and Publishing Scientific Research Papers	Language course (SK)	2		English
Language Center	Scientific Writing for Doctoral Candidates Module 3b: Writing and Publishing Scientific Research Papers	Language course (SK)	2		English
Literary Studies and Linguistics (B.A.)	Introductory Course Tutorial, Part 1	Practical course (Ü)	2	5	English
Literary Studies and Linguistics (B.A.)	Statistics in linguistics	Colloquium (K)		According to study regulations	English

Mineral Resources Engineering (B.Sc.)	Technical English Colloquium a	Language course (SK)	1	According to study regulations	English
Philosophy (B.A.)	Reading Group: Philosophy of Science		2		english

Faculty:		Business and Economics			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Business Administration & Engineering: Electrical Power Engineering B.Sc.	Foundations of Entrepreneurship	Lecture (V)	2	5 (incl exercises)	English
Business Administration & Engineering: Electrical Power Engineering B.Sc.	Foundations of Entrepreneurship (Exercise)	Practical course (Ü)	2	5 (incl lecture)	English
Economics and Economic Studies in History (B.A.)	The Global Economy: Trade and Investment	Practical course (Ü)	2		English
Economics and Economic Studies in History (B.A.)	The Global Economy: Trade and Investment	Lecture (V)	2	6	English

Faculty:		Civil Engineering			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Civil Engineering (B.Sc.)	Introduction to Scientific Computing I	Lecture/practical course (VÜ)	2	3	English

Faculty:		Electrical Engineering and Information Technology			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Business Administration & Engineering: Electrical Power Engineering B.Sc.	Modeling and Simulation of Complex Power Systems	Lecture/practical course (VÜ)	V2Ü1	4	english
Computer Science (B.Sc.)	Medical Acoustics I	Lecture/practical course (VÜ)	3	4 (including practical course)	English/German

Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Communications Engineering Laboratory	Practical course (P)	3	3	German and English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Foundations of Computer Science 1	Practical course (Ü)	1		English/German
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	International Patent Law	Lecture/practical course (VÜ)	3	4	English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Power Electronics - Fundamentals, Topologies and Analysis	Lecture/practical course (VÜ)	3		English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Seminar Communication Theory	Seminar (S)	3/4		German and English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Seminar Mixed Signal Circuits	Seminar (S)	4	3/4	English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Seminar: Current Trends in Wireless Communications	Seminar (S)	3		English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Seminar: Wireless Internet Systems	Seminar (S)	4		English
Electrical Engineering, Information Technology, and Computer Engineering B.Sc.	Seminary on Technical Acoustics	Seminar (S)	3/4	3/4	English/German
Materials Science (B.Sc.)	Lab Course 'Nanoelectronics'	Practical course (P)	5		English/German

Faculty:	Georesources and Materials Engineering				
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Geography (B.A.)	Advanced seminar: Climate variability, climatic risks and weather extremes	Seminar (HS)	2	4	English
Georesourcesmanagement (B.Sc.)	Advanced seminar	Seminar (S)	2		English
Materials Science (B.Sc.)	Computer Simulation of Materials	Lecture/practical course (VÜ)	4	5	English
Mineral Resources Engineering (B.Sc.)	Colloquium for Mining Engineers (current R&D results, selected topics on excavation + mining equipment)	Lecture/Colloquium (VK)	3		English/German
Mineral Resources Engineering (B.Sc.)	Field trips to mines and mining equipment manufactures	Excursion (E)	1		English/German
Mineral Resources Engineering (B.Sc.)	Guidance to self-dependent scientific studies	Exam colloquium (EK)	4		English/German

Faculty:	Mathematics, Computer Science and Natural Science				
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Biology (B.Sc.)	(neuro)biological seminar for B.Sc. students	Seminar (S)	2	2	English or German
Biology (B.Sc.)	Built to resist: Innate Immunity in Plants	Seminar (S)	2	4	German and English
Biology (B.Sc.)	Colloquium "Life Science"	Colloquium (K)	1		English/German
Biology (B.Sc.)	Introduction to Bioinformatics	Lecture (V)	2	4 (incl exercises)	English
Biology (B.Sc.)	molecular developmental biology	Lecture (V)	1	1,5	German (english on demand)
Biology (B.Sc.)	Project-oriented methodological laboratory course in "Biological information processing"	Practical course (ÜP)			German and English
Biology (B.Sc.)	Research Seminar Molecular Phytopathology	Language course (SK)	1	2	German and English
Biology (B.Sc.)	Seminar on Environmental Sciences	Seminar (S)	2		English or German
Biology (B.Sc.)	Transferable skills for bachelor students in biology	Tutorial (TuT)		1	English or German
Chemistry (B.Sc.)	Functional Coatings: State of the Art in Industry	Lecture (V)	1,5		English or German, on demand
Computational Engineering Science (B.Sc.)	Basic Techniques in Computer Graphics	Lecture (V)	3	6	English/German

Computational Engineering Science (B.Sc.)	Calculus of Variations I	Lecture (V)	4		English
Computational Engineering Science (B.Sc.)	Calculus of Variations I (Exercise session)	Practical course (Ü)	2		English or German
Computational Engineering Science (B.Sc.)	Computational Differentiation	Lecture/practical course (VÜ)	4	6	English
Computational Engineering Science (B.Sc.)	Data Analysis and Visualization	Practical course (Ü)	1	0	english
Computational Engineering Science (B.Sc.)	Data Mining Algorithms I	Lecture/practical course (VÜ)	3+2	6	English
Computational Engineering Science (B.Sc.)	Mathematical Models in Science and Engineering (ODEs)	Lecture/practical course (VÜ)	2+1	4	English or German
Computational Engineering Science (B.Sc.)	Numerical Methods for the Geo-Sciences I (NGS1)	Lecture/practical course (VÜ)	4	6	English or German
Computer Science (B.Sc.)	3D Computer Vision with Kinect	Seminar (S)	2	4	English/German
Computer Science (B.Sc.)	Advanced Internet Technology	Lecture (V)	3	6 (together with exercises)	English
Computer Science (B.Sc.)	Advanced Internet Technology: Exercise	Practical course (Ü)	1	6 (together with Lecture)	English
Computer Science (B.Sc.)	Automatic Speech Recognition	Lecture (V)	4 (Master)/3 (Bachelor)	8 (Master)/6 (Bachelor)	English
Computer Science (B.Sc.)	Automatic Speech Recognition	Practical course (Ü)	2	cf. Lecture	English
Computer Science (B.Sc.)	Designing Interactive Systems I	Lecture/practical course (VÜ)	V3/Ü2	6	English
Computer Science (B.Sc.)	Human-Computer Interaction	Introductory seminar (PS)	2	2	English/German
Computer Science (B.Sc.)	Implementation of Databases	Lecture/practical course (VÜ)	V3/Ü1	6	English
Computer Science (B.Sc.)	Infinite Computations	Lecture (V)	3	6	english
Computer Science (B.Sc.)	Infinite Computations	Practical course (Ü)	2		english
Computer Science (B.Sc.)	Introduction to Artificial Intelligence	Lecture/practical course (VÜ)	V3Ü2	6	English
Computer Science (B.Sc.)	Introduction to Model Checking	Lecture (V)	(BSc/MSc: 3, D: 4)	6	English
Computer Science (B.Sc.)	Introduction to Scientific Computing Languages	Lecture/practical course (VP)	V3/ÜE1	6	English

Computer Science (B.Sc.)	iPhone Application Programming	Lecture/practical course (VÜ)	V3Ü2	6	English
Computer Science (B.Sc.)	Medical Image Processing: Seminar	Seminar (S)	2	4	English
Computer Science (B.Sc.)	Proseminar "DM ² - Data Management and Data Mining Techniques"	Introductory seminar (PS)	2	4	English/German
Computer Science (B.Sc.)	Proseminar: Algorithms and Tools for Verification	Introductory seminar (PS)	2	4	English/German
Computer Science (B.Sc.)	Selected Topics in Human Language Technology and Pattern Recognition	Seminar (S)	2	4	English/German
Computer Science (B.Sc.)	Seminar on multimedia retrieval and data mining	Seminar (S)	2	5	German and English
Computer Science (B.Sc.)	Seminar Parallel Programming	Seminar (S)	1	4	English/German
Computer Science (B.Sc.)	Seminar: Advanced Internet Technology	Seminar (S)	2	4	English
Computer Science (B.Sc.)	Seminar: Current Trends in Technology Enhanced Learning	Seminar (HS)	2	4	English
Computer Science (B.Sc.)	Seminar: Mobile Internet Technology	Seminar (S)	2	4	English
Computer Science (B.Sc.)	Software Architectures	Lecture (V)	3	6	English/German
Computer Science (B.Sc.)	Software Engineering	Lecture (V)	3	6	German (english on demand)
Computer Science (B.Sc.)	Software Project Lab "Knowledge Extraction from Audio Databases"	Practical course (P)	4	7	English/German
Computer Science (B.Sc.)	Statistical Methods in Natural Language Processing	Lecture (V)	4	8	English
Computer Science (B.Sc.)	Statistical Methods in Natural Language Processing	Practical course (Ü)	2	0	English
Mathematics (B.Sc.)	Algorithmic Model Theory	Lecture (V)	4	9	English or German
Mathematics (B.Sc.)	Categorical Data Analysis	Lecture (V)	4		English
Mathematics (B.Sc.)	Exercise for Partial Differential Equations II (Exercise session)	Practical course (Ü)	2	9	English
Mathematics (B.Sc.)	Numerical Analysis IV	Lecture (V)	4	8	English or German, on demand
Mathematics (B.Sc.)	Numerical Analysis IV exercises	Practical course (Ü)	2	2	English or German, on demand
Mathematics (B.Sc.)	Numerical Multilinear Algebra	Lecture (V)	2	4	English or German
Mathematics (B.Sc.)	Numerical Multilinear Algebra Exercises	Practical course (Ü)	1	0	English or German
Mathematics (B.Sc.)	Seminar: Modeling and Simulation	Seminar (S)	2		English or German
Physics (B.Sc.)	Condensed Matter Physics I	Lecture/practical course (VÜ)	6		English

Physics (B.Sc.)	Experimental Physics I : Mechanics and Relativity (Tutorial Group 03), in English	Practical course (Ü)	2		English
Physics (B.Sc.)	Particle Physics I	Lecture/practical course (VÜ)	6		English
Physics (B.Sc.)	Quantum Field Theory of Particle Physics I	Lecture/practical course (VÜ)	6	10	English
Physics (B.Sc.)	Theoretical Physics II (Tutorial Group 2)	Practical course (Ü)	2	cf. Lecture	English
Physics (B.Sc.)	Theoretical Physics II (Tutorial Group 7) (Given in English)	Practical course (Ü)	2	cf. Lecture	English

Faculty:		Mechanical Engineering			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Computational Engineering Science (B.Sc.)	CES Mechanics I	Lecture (V)	2	3	English/German
Computational Engineering Science (B.Sc.)	Foundations of Finite Element Methods for Engineers	Lecture (V)	2	5	English
Computational Engineering Science (B.Sc.)	Foundations of Finite Element Methods for Engineers	Practical course (Ü)	2	5	English
Mechanical Engineering (B.Sc.)	Introduction to Polymer Physics	Lecture/practical course (VÜ)	2	3	English
Psychology (B.Sc.)	Industrial Engineering and Ergonomics, Participants Master students RWTH Aachen University	Lecture/practical course (VÜ)	2/2		English

Faculty:		Medicine			
Course of Study	Title	Type of course	Lecture hours per week	ECTS credits	Language of instruction
Medicine	Colloquium Medical Informatics	Research colloquium (FK)	2	2	English/German