



**JOHANNES KEPLER
UNIVERSITY LINZ**

Courses taught in English

The courses listed in this brochure refer to the academic year 2015/16.

For up-to-date course information please go to
<http://www.jku.at/exchange/courses>

WS = Winter Semester (October – January)

SS = Summer Semester (March – June)

Bachelor study programmes taught in English:

Bioinformatics

Biological Chemistry

Master study programmes taught in English:

Computer Science

Bioinformatics

Biological Chemistry

Polymer Chemistry

Management in Polymer Technologies

Polymer Technologies and Science

Industrial Mathematics

Economics

General Management

General Management Double Degree ESC Troyes-JKU Linz

Global Business Canada/Taiwan

Global Business Russia/Italy

Comparative Social Policy and Welfare

Statistics

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Business, Economics and Social Sciences courses taught in English

Sem.	Title	Course Type	Hours per week	ECTS Credits
WS	Advanced Public Economics	Course (KS)	2	4,00
WS	Advanced Regression Analysis	Combined course (KV)	2	4,00
WS	Advanced Text Production in Business Informatics	Seminar (SE)	2	3,00
WS	Advanced Trade Policy	Course (KS)	2	4,00
WS	Applied Statistics A	Seminar (SE)	2	6,00
WS	Balance of Payments and Exchange Rates (exam: first week of February!)	Course (KS)	2	3,00
WS	Bayes Statistics	Combined course (KV)	2	4,00
WS	Biostatistics	Combined course (KV)	2	4,00
WS	Business Engineering & Management	Lecture (VL)	2	3,00
WS	Case Studies English (C1) - for non-native speakers only!	Course (KS)	2	3,00
WS	Communications Engineering (Competence Training)	Competence Training (KT)	2	3,00
WS	Comparative Research in Cultural Studies	Course (KS)	2	3,00
WS	Competences of Organisational Analysis*	Seminar (SE)	2	3,00
WS	Computational Statistics	Combined course (KV)	2	4,00
WS	Cross Cultural Management*	Seminar (SE)	2	3,00
WS	Current Issues in International Management	Seminar (SE)	2	3,00
WS	Econometrics II	Course (KS)	2	4,00
WS	Econometrics II	Intensive course (IK)	1	2,00
WS	Economic Growth	Course (KS)	2	4,00
WS	Experimental Design	Combined course (KV)	2	4,00
WS	Financial Economics and Risk	Course (KS)	2	4,00
WS	Game Theory	Course (KS)	2	4,00
WS	Game Theory	Intensive course (IK)	1	2,00
WS	International Business*	Course (KS)	2	3,00
WS	International Market Entry*	Intensive course (IK)	2	3,00
WS	Macroeconomics I	Course (KS)	2	4,00
WS	Management and Marketing*	Intensive course (IK)	2	3,00
WS	Managerial Economics	Course (KS)	2	3,00
WS	Managing People and Organizations*	Intensive course (IK)	1	2,00
WS	Master Course Advances in Strategic Change and Learning	Course (KS)	2	6,00
WS	Master Course Corporate Finance	Course (KS)	2	6,00
WS	Master Course Creating Strategic Advantages	Course (KS)	2	6,00
WS	Master Course Dimensions of Globalization	Course (KS)	2	4,00
WS	Master Course Dimensions of Innovation	Course (KS)	2	4,00
WS	Master Course Dimensions of Marketing Theory and Managerial Application	Course (KS)	2	6,00
WS	Master Course Financial Accounting*	Course (KS)	2	6,00
WS	Master Course Managerial Accounting*	Course (KS)	2	6,00
WS	Master Course Organization	Course (KS)	2	6,00
WS	Master Seminar Advanced Topics in B2B-Marketing	Seminar (SE)	1	2,00
WS	Master Seminar Advanced Topics in Global Strategic Management	Seminar (SE)	1	3,00
WS	Master Seminar Advanced Topics in International Marketing*	Seminar (SE)	1	2,00
WS	Master Seminar Advanced Topics in Organization: Literature and Practice	Seminar (SE)	3	6,00
WS	Master Seminar Advanced Topics of Entrepreneurship Research	Seminar (SE)	3	6,00
WS	Master Seminar Global Strategic Management*	Seminar (SE)	2	3,00
WS	Master Seminar Globalization: Network Perspectives	Seminar (SE)	2	4,00

Sem.	Title	Course Type	Hours per week	ECTS credits
WS	Master Seminar Globalization: Politico-Economic Perspectives	Seminar (SE)	2	4,00
WS	Master Seminar Innovation: Entrepreneurial Perspectives	Seminar (SE)	2	4,00
WS	Master Seminar Innovation: Human Resource Perspectives*	Seminar (SE)	2	4,00
WS	Master Seminar Intercultural Competence*	Seminar (SE)	2	2,00
WS	Master Seminar International Business Project	Seminar (SE)	3	6,00
WS	Master Seminar Leaders, Groups and their Organizational Environment*	Seminar (SE)	3	6,00
WS	Master Seminar Qualitative Research Methods	Seminar (SE)	2	3,00
WS	Master Seminar Quantitative Research Methods	Seminar (SE)	2	3,00
WS	Master Seminar Sustainability: Environmental Controlling & Quality Management	Seminar (SE)	2	4,00
WS	Master Seminar Sustainability: Environmental Cooperation & Networking	Seminar (SE)	2	4,00
WS	Master Seminar Sustainability: Strategic Management Perspectives	Seminar (SE)	2	4,00
WS	Master Seminar Team Development & Group Dynamics*	Seminar (SE)	2	2,00
WS	Mathematics	Course (KS)	2	4,00
WS	Mathematics	Intensive course (IK)	1	2,00
WS	Media and Societies in Europe: for non-native speakers only!	Intensive course (IK)	2	3,00
WS	Monetary Economics: Theory and Policy	Course (KS)	2	4,00
WS	Organization Design and Innovation	Course (KS)	2	4,00
WS	Politics in Europe	Intensive course (IK)	2	3,00
WS	Probability Theory	Tutorial (UE)	2	6,00
WS	Probability Theory	Lecture (VL)	2	4,00
WS	Quantitative Organizational Change Methods	Seminar (SE)	2	3,00
WS	Reading Course: Global Studies	Tutorial (UE)	2	3,00
WS	Seminar Applied B2B-Marketing	Seminar (SE)	2	4,00
WS	Seminar Applied International Marketing	Seminar (SE)	2	4,00
WS	Seminar Business and Culture English (C2) - for non-native speakers only!*	Seminar (SE)	2	3,00
WS	Seminar Guest Professor English (C2): Strategic Human Resource Management*	Seminar (SE)	2	3,00
WS	Seminar in Innovation and Management*	Seminar (SE)	2	3,00
WS	Seminar in Organization and Management	Seminar (SE)	2	3,00
WS	Seminar Special Topics English (C2): Cross-cultural Virtual Teams*	Seminar (SE)	2	3,00
WS	Special Topics in International Management: Business Communications - An American Perspective	Intensive course (IK)	2	3,00
WS	Stochastic Processes	Combined course (KV)	2	4,00
WS	Survival Analysis	Combined course (KV)	2	4,00
WS	The Impact of Religions & Value Systems on European Cultures*	Course (KS)	2	3,00
WS	Theory of Intercultural Communication*	Intensive course (IK)	2	3,00
WS	Work Psychology*	Seminar (SE)	2	4,00
SS	Advanced Exchange Rate Theory	Intensive Course (IK)	2	3,00
SS	Advanced Statistical Inference	Tutorial (UE)	2	6,00
SS	Advanced Statistical Inference	Lecture (VO)	2	4,00
SS	Advanced Topics I: Economics of Inequality	Seminar (SE)	2	4,00
SS	Assorted Aspects of Intercultural Competence	Seminar (SE)	2	2,00
SS	Balance of Payments and Exchange Rates	Course (KS)	2	3,00
SS	Business Engineering & Management	Lecture (VO)	2	3,00
SS	Case Studies English (C1) - for non-native speakers only!	Course (KS)	2	3,00
SS	Comparative Social Policy	Course (KS)	2	3,00
SS	Competences of Organisational Analysis: Qualitative Research Methods	Seminar (SE)	2	3,00

Sem.	Title	Course Type	Hours per week	ECTS credits
SS	Cross Cultural Management	Seminar (SE)	2	3,00
SS	Cultural Marketing	Seminar (SE)	2	3,00
SS	Culture and Language Policies in the EU	Intensive Course (IK)	2	3,00
SS	Current Issues in International Management	Seminar (SE)	2	3,00
SS	Econometrics I	Course (KS)	2	4,00
SS	Econometrics I	Intensive Course (IK)	1	2,00
SS	Economics of International Integration	Course (KS)	2	4,00
SS	Financing Cultural Events	Seminar (SE)	2	3,00
SS	Global Accounting and Control: A Managerial Emphasis	Course (KS)	2	4,00
SS	International Business	Course (KS)	2	3,00
SS	International Economics, Finance and Macroeconomics	Seminar (SE)	2	4,00
SS	International Market Entry	Intensive Course (IK)	2	3,00
SS	Macroeconomics II	Course (KS)	2	4,00
SS	Management and Marketing	Intensive Course (IK)	2	3,00
SS	Managerial Economics	Course (KS)	2	3,00
SS	Master Course Advances in Strategic Change and Learning	Course (KS)	2	6,00
SS	Master Course Corporate Finance	Course (KS)	2	6,00
SS	Master Course Creating Strategic Advantages	Course (KS)	2	6,00
SS	Master Course Dimensions of Globalization	Course (KS)	2	4,00
SS	Master Course Dimensions of Innovation	Course (KS)	2	4,00
SS	Master Course Dimensions of Marketing Theory and Managerial Application	Course (KS)	2	6,00
SS	Master Course Financial Accounting	Course (KS)	2	6,00
SS	Master Course Managerial Accounting	Course (KS)	2	6,00
SS	Master Course Organization	Course (KS)	2	6,00
SS	Master Seminar Advanced Topics in B2B-Marketing	Seminar (SE)	1	2,00
SS	Master Seminar Advanced Topics in Global Strategic Management	Seminar (SE)	1	3,00
SS	Master Seminar Advanced Topics in International Marketing	Seminar (SE)	1	2,00
SS	Master Seminar Advanced Topics in Organization: Literature and Practice	Seminar (SE)	3	6,00
SS	Master Seminar Applied B2B-Marketing	Seminar (SE)	2	4,00
SS	Master Seminar Applied International Marketing	Seminar (SE)	2	4,00
SS	Master Seminar Entrepreneurship Theory and Practice	Seminar (SE)	3	6,00
SS	Master Seminar Global Strategic Management	Seminar (SE)	2	3,00
SS	Master Seminar Globalization: Sociological Perspectives	Seminar (SE)	2	4,00
SS	Master Seminar Globalization: Strategic Perspectives	Seminar (SE)	2	4,00
SS	Master Seminar Innovation: Human Resource Perspectives	Seminar (SE)	2	4,00
SS	Master Seminar Innovation: Marketing Perspectives	Seminar (SE)	2	4,00
SS	Master Seminar International Business Project	Seminar (SE)	3	6,00
SS	Master Seminar Leaders, Groups and their Organizational Environment	Seminar (SE)	3	6,00
SS	Master Seminar Negotiation Skills	Seminar (SE)	2	2,00
SS	Master Seminar Qualitative Research Methods	Seminar (SE)	2	3,00
SS	Master Seminar Quantitative Research Methods	Seminar (SE)	2	3,00
SS	Master Seminar Sustainability: Environmental Controlling & Quality Management	Seminar (SE)	2	4,00
SS	Master Seminar Sustainability: Environmental Cooperation & Networking	Seminar (SE)	2	4,00
SS	Master Seminar Sustainability: Strategic Management Perspect	Seminar (SE)	2	4,00
SS	Master Seminar Team Development & Group Dynamics	Seminar (SE)	2	2,00
SS	Microeconometrics	Course (KS)	2	4,00

Sem.	Title	Course Type	Hours per week	ECTS credits
SS	Organization Design and Innovation	Course (KS)	2	4,00
SS	Political and Economic Development in Europe	Course (KS)	2	3,00
SS	Quantitative Organizational Change Methods	Seminar (SE)	2	3,00
SS	Second Seminar in Accounting	Seminar (SE)	2	3,00
SS	Seminar Business and Culture English (C2) - for non-native speakers only!	Seminar (SE)	2	3,00
SS	Seminar Guest Professor English (C2): Managing Across Cultures - An Examination of Culture and Business in the BRIC + South Africa	Seminar (SE)	2	3,00
SS	Seminar in Finance	Seminar (SE)	2	3,00
SS	Seminar in Innovation and Management: Dimensions of Innovation	Seminar (SE)	2	3,00
SS	Seminar in Organization and Management	Seminar (SE)	2	3,00
SS	Special topics in Finance 1	Intensive Course (IK)	1	1,50
SS	Special Topics in International Management: International Negotiations	Intensive Course (IK)	2	3,00
SS	Statistical Learning	Combined Lecture (KV)	2	4,00
SS	The Multinational Firm in the Global Economy	Course (KS)	2	4,00
SS	Theories of the State and Democracy	Lecture (VU)	3	6,00
SS	Theory Seminar on Controlling and Management Accounting	Seminar (SE)	2	3,00
SS	Welfare Economics	Course (KS)	2	4,00
SS	Work Psychology	Seminar (SE)	2	4,00

Courses which are marked with * end before Christmas.

Computer Science courses taught in English				
Sem.	Title	Course Type	Hours per week	ECTS Credits
WS	Advanced Model Engineering	Tutorial (KV)	2	3,00
WS	Artificial Intelligence	Lecture (VO)	2	3,00
WS	Artificial Intelligence	Tutorial (UE)	1	1,50
WS	Assistive Technologies and Accessibility	Tutorial (KV)	2	3,00
WS	Basic Methods of Data Analysis	Tutorial (KV)	2	3,00
WS	Basics in Chemistry for Bioinformatics	Tutorial (KV)	1	1,50
WS	Bioinformatics	Lecture (VO)	2	3,00
WS	Cloud Security	Tutorial (KV)	2	3,00
WS	Computer Architecture 2	Tutorial (KV)	3	4,50
WS	Computer Forensics and IT Law	Lecture (VL)	2	3,00
WS	Design of Integrated Circuits	Practical Course (PR)	2	3,00
WS	Exercises in Bioinformatics	Tutorial (UE)	2	3,00
WS	Formal Methods in Software Development	Tutorial (KV)	3	4,50
WS	Human/Computer Interaction	Lecture (VL)	2	3,00
WS	Information Retrieval and Extraction	Tutorial (KV)	2	3,00
WS	Information Security Management	Lecture (VL)	2	3,00
WS	Introduction to IT Security	Lecture (VL)	2	3,00
WS	Knowledge Based Systems	Tutorial (KV)	2	3,00
WS	Machine Learning: Supervised Techniques	Lecture (VL)	2	3,00
WS	Machine Learning: Supervised Techniques	Tutorial (UE)	1	1,50
WS	Master's Thesis Seminar WS	Seminar (SE)	3	8,00
WS	Mobile Computing	Tutorial (KV)	2	3,00
WS	Model Checking	Tutorial (KV)	3	4,50
WS	Multimedia Search and Retrieval	Tutorial (KV)	3	4,50
WS	Numerical and Symbolic Methods for Bioinformatics	Tutorial (KV)	2	3,00
WS	Organic electronics	Lecture (VO)	2	3,00
WS	Pervasive Computing	Tutorial (KV)	3	4,50
WS	Pervasive Computing: Design and Development	Tutorial (UE)	1	1,50
WS	Pervasive Computing: Design and Development	Lecture (VL)	2	3,00
WS	Pervasive Computing: Systems and Environments	Tutorial (UE)	1	1,50
WS	Pervasive Computing: Systems and Environments	Lecture (VL)	2	3,00
WS	Practical Course "Single Channel Recording"	Practical Course (PR)	2	3,00
WS	Principles of Programming Languages	Tutorial (KV)	2	3,00
WS	Probabilistic Models	Lecture (VL)	2	3,00
WS	Probabilistic Models	Tutorial (UE)	1	1,50
WS	Project Bioinformatics	Practical Course (PR)	4	9,00
WS	Project in Computational Engineering	Practical Course (PR)	5	7,50
WS	Project in Intelligent Information Systems	Practical Course (PR)	5	7,50
WS	Project in Pervasive Computing	Practical Course (PR)	5	7,50
WS	Project in Software Engineering	Practical Course (PR)	5	7,50
WS	Project Practical	Practical Course (PR)	5	7,50
WS	Requirements Engineering	Tutorial (KV)	2	3,00
WS	Seminar Bioinformatics	Seminar (SE)	2	3,00
WS	Seminar in Computational Engineering	Seminar (SE)	2	3,00
WS	Seminar in Computational Engineering: Automated Reasoning	Seminar (SE)	2	3,00
WS	Seminar in Computational Engineering: Computational Perception	Seminar (SE)	2	3,00
WS	Seminar in Computational Engineering: Bioinformatics and Machine Learning	Seminar (SE)	2	3,00
WS	Seminar in Intelligent Information Systems: Information Integration	Seminar (SE)	2	3,00
WS	Seminar in Intelligent Information Systems: Crowd Knowledge Extraction	Seminar (SE)	2	3,00
WS	Seminar in Intelligent Information Systems: Cloud Computing	Seminar (SE)	2	3,00
WS	Seminar in Intelligent Information Systems: Citizens as Sensors - Crowdsensing-driven Situation-Awareness	Seminar (SE)	2	3,00
WS	Seminar in Intelligent Information Systems: Assistive Technologies	Seminar (SE)	2	3,00
WS	Seminar in Networks and Security: Biometrics and Cryptography	Seminar (SE)	2	3,00
WS	Seminar in Networks and Security Security in Information Systems	Seminar (SE)	2	3,00
WS	Seminar in Pervasive Computing: Computer Graphics	Seminar (SE)	2	3,00

Sem.	Title	Course Type	Hours per week	ECTS credits
WS	Seminar in Software Engineering	Seminar (SE)	2	3,00
WS	Sequence Analysis and Phylogenetics	Tutorial (UE)	2	3,00
WS	Sequence Analysis and Phylogenetics	Lecture (VO)	2	3,00
WS	Software Engineering	Tutorial (UE)	1	1,50
WS	Special Topics Modularity and API Design	Tutorial (KV)	1	1,50
WS	Special Topics Visual Analytics	Tutorial (UE)	1	1,50
WS	Special Topics Chess Programming	Lecture (VL)	2	3,00
WS	Special Topics Writing Parallel Applications under .NET	Tutorial (KV)	1	1,50
WS	Special Topics Formal Languages and Formal Grammars II	Lecture (VL)	2	3,00
WS	Special Topics Exploratory Data Analysis	Tutorial (KV)	2	3,00
WS	Special Topics e-Government	Tutorial (KV)	2	3,00
WS	Special Topics Computer Forensics and IT Law	Tutorial (UE)	1	1,50
WS	Special Topics Augmented Reality	Lecture (VL)	2	3,00
WS	Special Topics Mathematical Logic I	Tutorial (KV)	3	4,50
WS	Special Topics Industrialized Software Development: Methods and Tools in Practice	Tutorial (KV)	2	3,00
WS	Special Topics Mechatronical Systems	Lecture (VL)	2	3,00
WS	System Administration	Tutorial (KV)	2	3,00
WS	System Software	Tutorial (KV)	2	3,00
WS	Systems Programming	Practical Course (PR)	2	3,00
WS	Topics in Genetics & Evolution	Tutorial (KV)	2	3,00
WS	Visual Analytics	Lecture (VL)	2	3,00
WS	VLSI Design	Tutorial (KV)	2	3,00
WS	Web Engineering	Tutorial (KV)	2	3,00
SS	Accessible Software and Web Design	Tutorial (KV)	1	1,50
SS	Advanced Model Checking	Tutorial (KV)	2	3,00
SS	Algebraic and Discrete Methods for Biology	Tutorial (KV)	2	6,00
SS	Application Oriented Knowledge Processing	Tutorial (KV)	2	3,00
SS	Capacity Planning	Tutorial (KV)	2	3,00
SS	Computer Architecture 1	Tutorial (UE)	1	1,50
SS	Computer Graphics	Tutorial (UE)	1	1,50
SS	Computer Graphics	Lecture (VO)	2	3,00
SS	Conceptual Data Modeling	Tutorial (KV)	2	3,00
SS	Cryptography	Tutorial (KV)	2	3,00
SS	Digital Hardware Design	Tutorial (UE)	1	1,25
SS	Digital Hardware Design	Lecture (VO)	2	3,00
SS	Ethics and Gender Studies Gender in technological processes	Lecture (VO)	2	3,00
SS	Formal Models	Tutorial (UE)	1	1,50
SS	Formal Models	Lecture (VO)	2	3,00
SS	Genome Analysis & Transcriptomics	Tutorial (KV)	2	3,00
SS	Hardware Design	Lecture (VL)	2	3,00
SS	Hardware Design	Tutorial (UE)	1	1,50
SS	Information Displays	Lecture (VO)	2	3,00
SS	Information Systems for Bioinformatics	Tutorial (KV)	4	6,00
SS	Information Visualization	Tutorial (KV)	3	4,50
SS	Integrated Information Systems	Tutorial (KV)	2	3,00
SS	Introduction into Instrumental Analytics for Life-Sciences	Tutorial (KV)	2	3,00
SS	Introduction to R	Tutorial (KV)	2	3,00
SS	Learning from User-generated Data	Tutorial (KV)	3	4,50
SS	Machine Learning and Pattern Classification	Tutorial (KV)	3	4,50
SS	Machine Learning: Unsupervised Techniques	Lecture (VL)	2	3,00
SS	Machine Learning: Unsupervised Techniques	Tutorial (UE)	1	1,50
SS	Master's Thesis Seminar SS	Seminar (SE)	3	8,00
SS	Mobile Computing	Tutorial (KV)	2	3,00
SS	Model-driven Engineering	Tutorial (KV)	2	3,00
SS	Modeling Internet Applications	Tutorial (KV)	2	3,00
SS	Network Management	Tutorial (KV)	2	3,00
SS	Network Security	Tutorial (KV)	1	1,50

Sem.	Title	Course Type	Hours per week	ECTS credits
SS	Parallel Computing	Tutorial (KV)	3	4,50
SS	Practical software technology	Tutorial (KV)	4	6,00
SS	Principles of Cooperation	Lecture (VL)	2	3,00
SS	Principles of Cooperation	Tutorial (UE)	1	1,50
SS	Principles of Interaction	Lecture (VL)	2	3,00
SS	Principles of Interaction	Tutorial (UE)	1	1,50
SS	Product Line Engineering	Tutorial (KV)	2	3,00
SS	Project in Computational Engineering	Practical Course (PR)	5	7,50
SS	Project in Intelligent Information Systems	Practical Course (PR)	5	7,50
SS	Project in Networks and Security	Practical Course (PR)	5	7,50
SS	Project in Pervasive Computing	Practical Course (PR)	5	7,50
SS	Project in Software Engineering	Practical Course (PR)	5	7,50
SS	Project Practical Computer Graphics, BSc	Practical Course (PR)	5	7,50
SS	Project Practical	Practical Course (PR)	5	7,50
SS	Secure Code	Tutorial (KV)	1	1,50
SS	Security Models in Information Systems	Tutorial (KV)	2	3,00
SS	Semantic Data Modeling and Applications	Tutorial (KV)	2	3,00
SS	Seminar in Computational Engineering	Seminar (SE)	2	3,00
SS	Seminar in Intelligent Information Systems Information Integration	Seminar (SE)	2	3,00
SS	Seminar in Intelligent Information Systems Case Management: Standards, Technologies and Tools	Seminar (SE)	2	3,00
SS	Seminar in Intelligent Information Systems Crowd Knowledge Extraction	Seminar (SE)	2	3,00
SS	Seminar in Intelligent Information Systems Social Media Mining	Seminar (SE)	2	3,00
SS	Seminar in Intelligent Information Systems Assistive Technologies	Seminar (SE)	2	3,00
SS	Seminar in Networks and Security Challenges for IT-Security	Seminar (SE)	2	3,00
SS	Seminar in Pervasive Computing	Seminar (SE)	2	3,00
SS	Seminar in Software Engineering Human-Computer Interaction	Seminar (SE)	2	3,00
SS	Seminar in Software Engineering Empirical Software Engineering	Seminar (SE)	2	3,00
SS	Software Architectures	Tutorial (KV)	3	4,50
SS	Software Processes and Tools	Tutorial (KV)	2	3,00
SS	Software Testing	Tutorial (KV)	2	3,00
SS	Special Topics Functional Programming	Lecture (VL)	2	3,00
SS	Special Topics The .NET-Technology	Tutorial (KV)	1	1,50
SS	Special Topics Dynamic Compilation and Run-time Optimization in Virtual Mac	Tutorial (KV)	1	1,50
SS	Special Topics Formal Specification of Software	Tutorial (KV)	2	3,00
SS	Special Topics Java Performance Monitoring and Benchmarking	Tutorial (KV)	1	1,50
SS	Special Topics mobile, intelligent robots	Lecture (VL)	1	1,50
SS	Special Topics Software Development with C#	Tutorial (KV)	1	1,50
SS	Special Topics Audio and Music Processing	Tutorial (KV)	2	3,00
SS	Special Topics Artificial Intelligence in Media, Art and Society	Tutorial (KV)	2	3,00
SS	Special Topics Datawarehouses	Tutorial (KV)	2	3,00
SS	Special Topics Semantics of Programming Languages	Tutorial (KV)	1	1,50
SS	Special Topics Programming in Mathematica	Tutorial (KV)	2	3,00
SS	Special Topics Gödel's Incompleteness Theorems	Lecture (VL)	2	3,00
SS	Special Topics Introduction to Parallel and Distributed Computing	Lecture (VL)	2	3,00
SS	Special Topics Deep Learning and Neural Networks	Tutorial (KV)	2	3,00
SS	Special Topics Mobile Media Design	Tutorial (KV)	2	3,00
SS	Stochastic simulation	Lecture (VO)	2	3,00
SS	Structural Bioinformatics	Tutorial (KV)	2	3,00
SS	Systems Security	Tutorial (KV)	2	3,00
SS	Theoretical Concepts of Machine Learning	Lecture (VO)	2	3,00
SS	Theoretical Concepts of Machine Learning	Tutorial (UE)	1	1,50
SS	Web Information Systems	Tutorial (KV)	3	4,50
SS	Web Search and Mining	Tutorial (KV)	2	3,00
SS	Wireless LANs	Tutorial (KV)	1	1,50

Mathematics courses taught in English

Sem.	Title	Course Type	Hours per week	ECTS Credits
WS	Algorithmic combinatorics	Lecture (VO)	2	3,00
WS	Algorithmic combinatorics	Tutorial (UE)	1	1,50
WS	Automated Reasoning	Tutorial (UE)	1	1,50
WS	Automated Reasoning	Lecture (VL)	2	3,00
WS	Computer Algebra	Lecture (VL)	2	3,00
WS	Computer Algebra	Tutorial (UE)	1	1,50
WS	Computability theory	Lecture (VO)	2	3,00
WS	Computational Physics I	Tutorial (UE)	1	1,50
WS	Formal methods in software development	Tutorial (KV)	4	6,00
WS	Information systems	Tutorial (KV)	2	3,00
WS	Integral equations and boundary value problems	Tutorial (UE)	2	3,00
WS	Linear algebra and analytic geometry 1	Tutorial (UE)	2	3,00
WS	Logic programming	Tutorial (KV)	2	3,00
WS	Mathematical logic 1	Lecture (VO)	4	6,00
WS	Mathematical logic 1	Tutorial (UE)	1	1,50
WS	Methods of research	Seminar (SE)	2	3,00
WS	Numerical methods for partial differential equations	Tutorial (UE)	2	3,00
WS	Seminar algebra and discrete mathematics	Seminar (SE)	2	3,00
WS	Seminar Geometry Recent Results in Applied Geometry	Seminar (SE)	2	3,00
WS	Seminar logic and software design Project seminar Automated theorem proving I: Theorema Mathematical Theory Exploration	Seminar (SE)	2	3,00
WS	Seminar logic and software design Project seminar Formal Methods I	Seminar (SE)	2	3,00
WS	Seminar symbolic computation: Computer-Algebra I	Seminar (SE)	2	3,00
WS	Seminar symbolic computation Algorithmic Algebra	Seminar (SE)	2	3,00
WS	Seminar symbolic computation Project seminar Algorithmic combinatorics I	Seminar (SE)	2	3,00
WS	Special Topics Geometry Adaptive spline refinement	Lecture (VO)	2	3,00
WS	Special Topics Geometry Adaptive Multivariate Splines	Lecture (VO)	2	3,00
WS	Special topics logic and software design Formal Languages and Formal Grammars II	Lecture (VL)	2	3,00
WS	Special topics numerical analysis Fluid Structure Interaction	Tutorial (UE)	1	1,50
WS	Special topics numerical analysis Fluid Structure Interaction	Lecture (VL)	2	3,00
WS	Special topics optimization Controllability and Optimal Control	Lecture (VL)	2	3,00
WS	Special Topics symbolic computation Algebraic Topology	Lecture (VL)	2	3,00
WS	Special Topics symbolic computation Computational Integro-Differential Algebra	Lecture (VL)	2	3,00
WS	Statistical methods	Lecture (VO)	2	3,00
SS	Commutative algebra and algebraic geometry	Tutorial (UE)	1	1,50
SS	Commutative algebra and algebraic geometry	Lecture (VO)	4	6,00
SS	Computer Algebra for Concrete Mathematics	Lecture (VL)	2	3,00
SS	Computer Algebra for Concrete Mathematics	Tutorial (UE)	1	1,50
SS	Computer Analysis	Lecture (VO)	2	3,00
SS	Computer-aided geometric design	Tutorial (UE)	1	1,50
SS	Decidibility and complexity classes	Lecture (VO)	2	3,00
SS	Dynamical systems and chaos	Lecture (VO)	2	3,00
SS	Dynamical systems and chaos	Tutorial (UE)	1	1,50
SS	Exercises in Mathematics II	Tutorial (UE)	2	3,00
SS	Functional programming	Tutorial (KV)	2	3,00
SS	GeoGebra & CAS for teaching mathematics	Tutorial (KV)	2	2,60
SS	Introduction to parallel and distributed computing	Lecture (VO)	2	3,00
SS	Linear algebra and analytic geometry 2	Tutorial (UE)	2	3,00
SS	Methods of research	Seminar (SE)	2	3,00
SS	Numerical methods for elliptic equations	Lecture (VO)	4	6,00
SS	Numerical methods in continuum mechanics 1	Lecture (VO)	2	3,00
SS	Numerical methods in continuum mechanics 1	Tutorial (UE)	1	1,50
SS	Partial differential equations	Tutorial (UE)	2	3,00
SS	Programming in Mathematica	Tutorial (KV)	2	3,00
SS	Seminar algebra and discrete mathematics Research Seminar	Seminar (SE)	2	3,00

Sem.	Title	Course Type	Hours per week	ECTS credits
SS	Seminar Geometry Recent Results in Computer Aided Geometric Design	Seminar (SE)	2	3,00
SS	Seminar logic and software design	Seminar (SE)	2	3,00
SS	Seminar symbolic computation Project Seminar Computer algebra II	Seminar (SE)	2	3,00
SS	Seminar symbolic computation Project seminar Algorithmic combinatorics II	Seminar (SE)	2	3,00
SS	Seminar symbolic computation Computer-Algebra II	Seminar (SE)	2	3,00
SS	Seminar symbolic computation Algorithmic Algebra	Seminar (SE)	2	3,00
SS	Seminar Knowledge-based Mathematical Systems Recent publications in Fuzzy Logic	Seminar (SE)	2	3,00
SS	Software engineering	Tutorial (KV)	2	3,00
SS	Special topics logic and software design Formal Specification of Abstract Datatypes	Lecture (VL)	2	3,00
SS	Special topics logic and software design Gödel's Incompleteness Theorems	Lecture (VL)	2	3,00
SS	Special topics numerical analysis Spacetime Solvers	Tutorial (UE)	1	1,50
SS	Special Topics symbolic computation Algebraic methods in kinematics	Lecture (VL)	2	3,00

Chemistry and Polymer Technology courses taught in English

Sem.	Title	Course Type	Hours per week	ECTS Credits
WS	Advanced NMR 1	Lecture (VL)	1	1,30
WS	Advanced Polymer Synthesis Lab Course	Practical Course (PR)	5	6,00
WS	Bioanalytics I	Lecture (VO)	2	3,00
WS	Bioanalytics I	Tutorial (UE)	1	1,50
WS	Biochemical Laboratory Techniques	Lecture (VL)	1	1,30
WS	Biophysics	Lecture (VO)	2	3,00
WS	Biophysics III	Lecture (VO)	2	3,00
WS	Biophysics Laboratory	Practical Course (PR)	2	3,00
WS	Catalysis by Metal Complexes	Lecture (VL)	2	2,60
WS	Characterization and Testing of Polymeric Materials 2	Practical Course (PR)	4	4,00
WS	Chemistry and Technology of Silicone Elastomers	Lecture (VL)	2	2,60
WS	Chemical Calculations	Tutorial (KV)	2	3,20
WS	Computer Vision	Tutorial (KV)	3	4,50
WS	Current Topics in Biological Chemistry Positron emission tomography radiochemistry	Lecture (VL)	1	1,30
WS	Design of Lightweight Structures	Tutorial (KV)	2	3,00
WS	Design of Lightweight Structures	Tutorial (UE)	2	2,50
WS	Dye chemistry and Functional Dyes	Lecture (VL)	1	1,50
WS	Elements of Structuring in Polymers	Lecture (VL)	1	1,30
WS	English for Chemistry 1 (understanding)	Tutorial (KV)	2	3,20
WS	English for Chemistry 2 (writing & presenting)	Tutorial (KV)	1	1,60
WS	Ethics and Gender Studies Biology, Ethics and Gender	Lecture (VO)	2	3,00
WS	Exercises in Mathematics for Chemists 1	Tutorial (UE)	2	3,20
WS	Exercises in Physical Chemistry I	Tutorial (UE)	1	1,60
WS	Exercises in Polymer Chemistry 2	Tutorial (UE)	1	1,60
WS	Exercises in Polymerization Techniques	Tutorial (UE)	1	1,60
WS	Exercises in Spectroscopy and Structural Elucidation I	Tutorial (UE)	1	1,60
WS	Exercises Spectroscopy and Structure Elucidation II	Tutorial (UE)	1	1,60
WS	Experimental Solid Mechanics for Polymeric Components	Practical Course (PR)	2	2,50
WS	Finance, Accounting and Taxation	Lecture (VL)	2	3,00
WS	Finance, Accounting and Taxation	Intensive Course (IK)	2	3,00
WS	Formulations of Polymers	Lecture (VL)	1	1,30
WS	General and Inorganic Chemistry I	Lecture (VO)	4	5,20
WS	Industrial characterization of polymers	Lecture (VL)	2	2,60
WS	Industrial Chemistry for Plastic Engineering	Lecture (VL)	1	1,50
WS	Instrumental Analysis	Lecture (VO)	2	2,60
WS	International Finance for Engineers	Intensive Course (IK)	2	3,00
WS	International Marketing for Engineers	Intensive Course (IK)	2	3,00
WS	Introduction I to General Chemistry	Lecture (VO)	1	1,30
WS	Introduction II to General Chemistry	Lecture (VO)	1	1,30
WS	Introduction to Nano-Biomechanics	Lecture (VO)	1	1,50
WS	Introduction to the Analytical Laboratory	Lecture (VO)	1	1,30
WS	Lab Course in Polymerization Techniques	Practical Course (PR)	4	4,80
WS	Laboratory for Technology of Polymer Processing - MPT	Practical Course (PR)	2	2,00
WS	Management and Marketing	Intensive Course (IK)	2	3,00
WS	Management and Marketing	Lecture (VL)	2	3,00
WS	Managerial Accounting for Engineers	Intensive Course (IK)	2	3,00
WS	Master's Thesis Seminar MPT	Seminar (SE)	1	1,00
WS	Master's Thesis Seminar PTS	Seminar (SE)	1	1,00
WS	Mathematics for Chemists 1	Lecture (VO)	2	2,60
WS	Mechanical Material Models for Polymers	Tutorial (KV)	2	3,00
WS	Molecularly Imprinted Polymers	Lecture (VL)	1	1,30
WS	Optimization Methods in Polymer Processing	Tutorial (KV)	2	3,00
WS	Organic Chemistry III (Natural Products)	Lecture (VL)	2	2,60
WS	Organic Semiconductors Spectroscopy in organic Semiconducors	Lecture (VL)	2	3,00
WS	Packaging	Lecture (VL)	2	2,50
WS	Photochemistry	Lecture (VL)	2	2,60

Sem.	Title	Course Type	Hours per week	ECTS credits
WS	Physical Chemistry I	Lecture (VO)	4	5,20
WS	Physics for Biological Chemistry 1	Tutorial (KV)	1	1,60
WS	Polymer Chemistry 2	Lecture (VL)	2	2,60
WS	Polymer Extrusion and Compounding 1: Process Technologies	Tutorial (UE)	1	1,50
WS	Polymer Extrusion and Compounding 1: Process Technologies	Lecture (VL)	2	3,00
WS	Polymer Injection Moulding 1: Machine Engineering	Lecture (VL)	2	3,00
WS	Polymer Injection Moulding 1: Machine Engineering	Tutorial (UE)	1	1,50
WS	Polymer Product Design and Engineering 4: Integrated Injecti	Tutorial (UE)	1	1,50
WS	Polymer Product Design and Engineering III	Lecture (VL)	1	1,50
WS	Polymer Product Design and Engineering III	Tutorial (UE)	1	1,00
WS	Polymeric Materials 5 - Polymeric Mat. & Sust. Developm.	Tutorial (KV)	2	3,00
WS	Polyolefins	Lecture (VL)	1	1,30
WS	Practical Atomic Force Microscopy	Practical Course (PR)	2	2,40
WS	Practical Course in General Chemistry	Practical Course (PR)	4	4,80
WS	Scientific Tutorial in Polymer Extrusion and Compounding	Seminar (SE)	3	4,50
WS	Scientific Tutorial in Polymer Injection Moulding	Seminar (SE)	3	4,50
WS	Scientific Tutorial in Polymeric Materials and Testing	Seminar (SE)	3	4,50
WS	Seminar Chemical Technology of Inorganic Materials	Seminar (SE)	1	1,60
WS	Seminar in applied physics Applications of Light-Induced Phenomena	Seminar (SE)	2	3,00
WS	Seminar in Polymer Injection Moulding	Seminar (SE)	2	3,00
WS	Seminar in Polymer Product Engineering	Seminar (SE)	2	3,00
WS	Software Engineering	Lecture (VO)	2	3,00
WS	Spectroscopy and Structural Elucidation I Spectroscopic Analytical Techniques (NMR)	Lecture (VO)	1	1,30
WS	Spectroscopy and Structure Elucidation II	Lecture (VL)	1	1,30
WS	Stereochemistry	Lecture (VL)	2	2,60
WS	Structure and Properties of Biological Materials	Lecture (VL)	1	1,30
WS	Structural Health Monitoring	Lecture (VL)	2	6,00
WS	Structural Rheology for Chemistry	Lecture (VL)	2	2,60
WS	Structure and Properties of Polymeric Materials	Lecture (VL)	1	1,30
WS	Structure Development in Polymeric Materials	Lecture (VL)	2	3,00
WS	Technical Polymeric Materials	Lecture (VL)	1	1,30
WS	Viscous Fluid Flow	Tutorial (KV)	1	1,00
SS	Advanced Instrumental Analysis	Practical Course (PR)	2	2,40
SS	Advanced Materials	Seminar (SE)	1	1,50
SS	Advanced NMR 2	Tutorial (KV)	1	1,60
SS	Analytical Chemistry 1	Lecture (VO)	3	3,90
SS	Applied Measurement and Control in Polymer Processing	Tutorial (KV)	1	1,50
SS	Biochemistry	Lecture (VO)	2	2,60
SS	Bionics - biomimetic Materials and Polymers	Lecture (VL)	1	1,30
SS	Characterization and Testing of Plastics 1b	Practical Course (PR)	1	1,00
SS	Characterization and Testing of Polymers 1 - MPT	Practical Course (PR)	3	2,90
SS	Chemical Interactions in Polymers	Lecture (VL)	1	1,30
SS	Chemical Technology of Organic Materials III	Lecture (VL)	2	2,60
SS	Chemical Thin Film Technology	Lecture (VL)	2	2,60
SS	Chemometrics	Lecture (VL)	2	2,60
SS	Company Visits: Polymer Industry	Tutorial (UE)	1	1,00
SS	Cross Cultural Management for Engineers	Intensive Course (IK)	2	3,00
SS	Current Topics in Structural Biochemistry	Lecture (VL)	1	1,30
SS	Current Topics in Organic Chemistry	Lecture (VL)	1	1,50
SS	Dye Chemistry and Functional Dyes	Lecture (VL)	1	1,50
SS	Engineering with Soft Materials	Tutorial (KV)	2	3,00
SS	English for Chemistry 2 (writing & presenting)	Tutorial (KV)	1	1,60
SS	Environmental, Resource and Quality Management for Engineers	Intensive Course (IK)	2	3,00
SS	Excursion Polymer Chemistry	Lecture (VL)	1	0,60
SS	Exercises in Physical Chemistry II	Tutorial (UE)	1	1,60
SS	Finance, Accounting and Taxation	Lecture (VL)	2	3,00
SS	Finance, Accounting and Taxation	Intensive Course (IK)	2	3,00

Sem.	Title	Course Type	Hours per week	ECTS credits
SS	Functional Polymers	Lecture (VL)	1	1,30
SS	Global Management and Strategy	Seminar (SE)	2	3,00
SS	High Resolution Microscopy I - Optical and Electron Microscopy	Lecture (VL)	1	1,50
SS	High Resolution Microscopy II - Scanning Probe Techniques	Lecture (VL)	1	1,50
SS	Industriell Biotechnology	Lecture (VO)	2	2,60
SS	Introduction to Genetics	Lecture (VL)	1	1,50
SS	Laboratory Course of Analytical Chemistry I	Practical Course (PR)	7	8,40
SS	Laboratory Course of Polymer Chemistry 2	Practical Course (PR)	5	6,00
SS	Lightweight Design with Composite Materials	Lecture (VL)	2	3,00
SS	Lightweight Design with Composite Materials	Tutorial (UE)	1	1,50
SS	Management and Marketing	Intensive Course (IK)	2	3,00
SS	Management and Marketing	Lecture (VL)	2	3,00
SS	Master Thesis Seminar Technical Chemistry	Seminar (SE)	2	3,00
SS	Master's Thesis Seminar MPT	Seminar (SE)	1	1,00
SS	Master's Thesis Seminar Polymer Chemistry	Seminar (SE)	2	3,00
SS	Organic Chemistry 1	Lecture (VL)	4	10,40
SS	Organic semiconducting polymers	Lecture (VL)	2	3,00
SS	Patent Law and Intellectual Property	Lecture (VL)	2	2,60
SS	Photovoltaic	Lecture (VL)	2	3,00
SS	Physics and Chemistry of Organic Semiconductors	Lecture (VL)	2	2,60
SS	Physical and theoretical Chemistry	Lecture (VL)	2	2,60
SS	Physical Chemistry II	Lecture (VO)	2	2,60
SS	Physical Chemistry of Surfaces and Interfaces	Lecture (VL)	1	1,50
SS	Polymer Chemistry and Chemical Process Technologies	Lecture (VL)	2	2,50
SS	Polymer Extrusion and Compounding 2: Modelling Screw Extrusion	Lecture (VL)	2	3,00
SS	Polymer Extrusion and Compounding 2: Modelling Screw Extrusion	Tutorial (UE)	1	1,50
SS	Polymer Injection Moulding 2: Process Technologies	Tutorial (KV)	2	3,00
SS	Polymer Processing	Practical Course (PR)	2	2,50
SS	Polymer Product and Process Development	Lecture (VL)	2	3,00
SS	Polymer Product and Process Development Project	Practical Course (PR)	3	4,00
SS	Polymer Product Design and Engineering 4: Integrated Injection	Lecture (VL)	2	3,00
SS	Polymeric Materials 3: Polymer Mechanics and Fracture Mechanics	Lecture (VL)	2	3,00
SS	Polymeric Materials 4: Functional Polymeric Materials	Lecture (VL)	1	1,50
SS	Polymeric Materials 4: Functional Polymeric Materials	Seminar (SE)	1	1,00
SS	Polymerization Techniques	Lecture (VL)	2	2,60
SS	Practical Atomic Force Microscopy	Practical Course (PR)	2	2,40
SS	Proseminar to VO Organic Chemistry I	Proseminar (PS)	2	3,20
SS	Protein Science	Lecture (VL)	1	1,30
SS	Safety Analysis and Modeling	Tutorial (KV)	2	3,00
SS	Scientific Tutorial in Polymer Injection Moulding	Seminar (SE)	3	4,50
SS	Scientific Tutorial in Polymer Product Engineering	Seminar (SE)	3	4,50
SS	Scientific Tutorial in Polymeric Materials and Testing	Seminar (SE)	3	4,50
SS	Seminar Chemical Technology of Inorganic Materials	Seminar (SE)	1	1,60
SS	Seminar in Polymer Product Engineering	Seminar (SE)	2	3,00
SS	Seminar in Polymeric Materials and Testing	Seminar (SE)	2	3,00
SS	Seminar in Structural and Computational Biochemistry	Seminar (SE)	1	1,60
SS	Seminar on Bioinorganic and Biomimetic Systems	Seminar (SE)	1	1,60
SS	Seminar on computational methods in organic chemistry	Seminar (SE)	1	1,50
SS	Special Topics of Polymer Chemistry	Lecture (VL)	1	1,50
SS	Structural Durability Calculations	Tutorial (UE)	1	1,50
SS	Structural Integrity Assessment of Polymer Structures	Tutorial (KV)	2	3,00
SS	Technical Biopolymers	Lecture (VL)	1	1,30
SS	Technical Polymeric Materials	Lecture (VL)	1	1,30

Physics courses taught in English

Sem.	Title	Course Type	Hours per week	ECTS Credits
WS	Computational Physics I	Lecture (VO)	2	3,00
WS	Computational Physics I Exercises	Tutorial (UE)	1	1,50
WS	Introduction to programming I	Practical Course (PR)	2	3,00
WS	Laser physics	Lecture (VO)	2	3,00
WS	Laser physics	Tutorial (UE)	1	1,50
WS	Literature seminar in applied physics	Seminar (SE)	2	3,00
WS	Literature seminar in semiconductor physics	Seminar (SE)	2	3,00
WS	Nanofabrication I: Growth and Self-Organization	Practical Course (PR)	1	1,50
WS	Nanofabrication I: Growth and Self-Organization	Lecture (VO)	2	3,00
WS	Molecular biology of the cell I	Lecture (VO)	2	3,00
WS	Molecular biology of the cell I	Tutorial (UE)	1	1,50
WS	Physics of low dimensional systems	Tutorial (UE)	1	1,50
WS	Physics of low dimensional systems	Lecture (VO)	3	4,50
WS	Project seminar Technical Physics	Seminar (SE)	2	9,00
WS	Quantum electronics and optics	Tutorial (UE)	1	1,50
WS	Quantum electronics and optics	Lecture (VO)	2	3,00
WS	Research seminar in surface and nano analytics	Seminar (SE)	2	3,00
WS	Selected Topics on Biophysics Mechanisms of Membrane Transport	Seminar (SE)	2	3,00
WS	Semiconductor physics for advanced students	Lecture (VO)	3	4,50
WS	Seminar in Nanoscience and –Technology	Seminar (SE)	2	3,00
WS	Seminar in physics of soft materials	Seminar (SE)	2	3,00
WS	Seminar in semiconductor physics	Seminar (SE)	2	3,00
WS	Seminar in surface and nano analytics surface analytics	Seminar (SE)	2	3,00
WS	Seminar in theoretical physics Exercises to Mathematical Structure of the Universe	Seminar (SE)	2	3,00
WS	Special topics in Applied Physics Molecule Physics	Lecture (VO)	2	3,00
WS	Special topics in Nanoscience	Lecture (VO)	2	3,00
WS	Special topics in solid state physics Strain and Stress	Lecture (VO)	2	3,00
WS	Special topics in theoretical physics Mathematical Structure of the Universe	Lecture (VO)	2	3,00
WS	Superconductivity and low temperature physics	Tutorial (UE)	1	1,50
WS	Surface and nano analytics lab (experimental)	Practical Course (PR)	6	9,00
WS	Surface science II	Tutorial (UE)	1	1,50
WS	Using Computers in Science Numerical methods	Lecture (VO)	2	3,00
SS	Advanced Microscopy	Lecture (VO)	2	3,00
SS	Advanced practical course	Practical Course (PR)	3	4,50
SS	Bioanalytics II	Tutorial (UE)	1	1,50
SS	Bioanalytics II	Lecture (VO)	2	3,00
SS	Computational Physics II	Tutorial (UE)	1	1,50
SS	Computational Physics II	Lecture (VO)	2	3,00
SS	Fundamentals of Physics II (Electricity, Magnetism)	Lecture (VO)	4	6,00
SS	Fundamentals of Physics II (Electricity, Magnetism)	Tutorial (UE)	2	3,00
SS	Introduction to Laser Processing	Lecture (LV)	2	3,00
SS	Literature seminar in applied physics	Seminar (SE)	2	3,00
SS	Literature seminar in semiconductor physics	Seminar (SE)	2	3,00
SS	Literature seminar in Solid State Physics	Seminar (SE)	2	3,00
SS	Literature seminar in surface and nano analytics	Seminar (SE)	2	3,00
SS	Nanofabrication II: Semiconductor Technology	Practical Course (PR)	1	1,50
SS	Nanofabrication II: Semiconductor Technology	Lecture (VO)	2	3,00
SS	Nanooptics	Lecture (VO)	2	3,00
SS	Optoelectronic devices	Lecture (VO)	2	3,00
SS	Photonics	Lecture (VO)	2	3,00
SS	Photonics	Tutorial (UE)	1	1,50
SS	Physics of Soft Matter	Lecture (VO)	2	3,00
SS	Project seminar Technical Physics	Seminar (SE)	2	9,00
SS	Protein-expression and function	Practical Course (PR)	3	4,50
SS	Research seminar in surface and nano analytics	Seminar (SE)	2	3,00
SS	Semiconductor- Hetero- quantum- well- structures	Lecture (VO)	2	3,00

Sem.	Title	Course Type	Hours per week	ECTS credits
SS	Semiconductor physics	Lecture (VO)	2	3,00
SS	Semiconductor physics	Tutorial (UE)	1	1,50
SS	Seminar in applied physics	Seminar (SE)	2	3,00
SS	Seminar in Nanoscience and –Technology	Seminar (SE)	2	3,00
SS	Seminar in physics of soft materials	Seminar (SE)	2	3,00
SS	Seminar in surface and nano analytics	Seminar (SE)	2	3,00
SS	Smart Materials	Lecture (VO)	2	3,00
SS	Special topics in atomic physics and surface science	Lecture (VO)	2	3,00
SS	Special topics in Nanoscience	Lecture (VO)	2	3,00
SS	Special topics in semiconductor physics Berry Phase and Topological Effects	Lecture (VO)	2	3,00
SS	Special topics in theoretical physics	Lecture (VO)	2	3,00
SS	Surface and nano analytics lab (experimental)	Practical Course (PR)	6	9,00
SS	Surface science I	Tutorial (UE)	1	1,50
SS	Vacuum technology and physics	Lecture (VO)	2	3,00

Law courses taught in English				
Sem.	Title	Course Type	Hours per week	ECTS Credits
WS	Common Law Civil Procedure	Lecture (VL)	1	1,50
WS	International Commercial Arbitration	Lecture (VL)	1	1,50
WS	European Tax Law	Lecture (VL)	1	1,50
WS	Legal English	Colloquy (KO)	2	3,00
WS	Legal English	Review Course (RE)	0,5	1,00
WS	Purchase tax and transfer tax	Proseminar (PS)	1	1,00
WS	Management and Marketing	Intensive Course (IK)	2	3,00
SS	Selected Topics: Common Law Legal Order/US Bankruptcy Law	- an overview from a procedural perspective Lecture (VL)	1	1,50
SS	Legal English	Colloquy (KO)	2	3,00
SS	Legal English	Review Course (RE)	0,5	1,00
SS	Finance, Accounting and Taxation	Intensive Course (IK)	2	3,00

German as a Foreign Language Courses

The following levels and courses are offered throughout the semester:

Beginners' Level

- German as a Foreign Language - Basic Course I (exit level A1.2), 6 hours per week, 6 ECTS credits
- German as a Foreign Language - Basic Course II (exit level A2.1), 6 hours per week, 6 ECTS credits

The courses Basic I and Basic II German cannot be attended simultaneously.

Intermediate Level

- German - Phonetics, 1 hour per week, 1 ECTS credit
- German as a Foreign Language - Intermediate I (exit level A2.2), 6 hours per week, 6 ECTS credits
+ German - Text Production Intermediate I (exit level A2), 2 hours per week, 2 ECTS credits
- German as a Foreign Language - Intermediate II (exit level B1), 6 hours per week, 6 ECTS credits
+ German - Text Production Intermediate II (exit level B1), 2 hours per week, 2 ECTS credits
+ German as a Foreign Language - Grammar in Situations I (exit level B1), 2 hours per week, 2 ECTS credits

The courses Intermediate I and Intermediate II German cannot be attended simultaneously.

Advanced Level

- German as a Foreign Language – Advanced I (exit level B2), 4 hours per week, 6 ECTS credits
- German as a Foreign Language – Advanced II (exit level C1), 4 hours per week, 6 ECTS credits
- German as a Foreign Language - Grammar in Situations II (exit level B2/C1), 2 hours per week, 2 ECTS credits
- German - Text Production Intermediate III (exit level B2), 2 hours per week, 2 ECTS credits

The courses Advanced I and Advanced II cannot be attended simultaneously.

In addition to the above mentioned courses, there is one course with a special status:

- Certificate Preparation Course German (2 semester hours per week, 3 ECTS credits) prepares students to take the ÖSD examinations (Austrian Language Certificate) at three different levels ("Zertifikat", "Mittelstufe" and "Diplom Wirtschaftsdeutsch"). The minimum entry requirement is the successful completion of "Intermediate I" (A2). The course is open to all students interested in preparing for and taking these examinations.