

Digitalisation & Engineering

BACHELOR

APPLIED CHEMISTRY

Are you interested in waste recycling or in developing new active agents in the pharmaceutical industry? As a graduate of our Applied Chemistry bachelor degree programme, you will be able to find groundbreaking solutions to problems facing society today.



AT A GLANCE



Full-time

Courses take place from Monday to Friday between 8.00 a.m. and around 8.00 p.m. (in exceptional cases on Saturdays).



English

The language of instruction is English.

This prepares you for a career in a

multicultural environment.



Six semesters

The degree programme lasts three years, with a total workload of 180 ECTS.

Graduates receive the academic degree of Bachelor of Science in Engineering (BSc).



22-week internship

You can quickly put into practice the expertise you have picked up during your courses. The internship is an obligatory part of the programme.



Study fee

EU/EEA citizens pay a study fee of EUR 363.36 per semester, plus the student union fee.

CURRICULUM FULL-TIME

Semester I	Н	ECTS
Mathematics for Chemists		
APPLIED MATHEMATICS I		
Applied Mathematics I – Theory	2	3
Applied Mathematics I – Exercise	1	2
Physics for Chemists		
PHYSICS		
Physics for Chemists – Theory	3	4
Physics for Chemists – Laboratory	2	2
General and Inorganic Chemistry		
GENERAL CHEMISTRY I		
General and Inorganic Chemistry – Theory	5	7
General and Inorganic Chemistry – Laboratory	4	5
Chemical Calculations - Stochiometry	2	2
Applied Informatics for Chemists		
APPLIED INFORMATICS I		
Applied Informatics I: Information Technology and Data Management – Theory	2	2
Applied Informatics I: Information Technology and Data Management – Computer Exercise	2	3

Semester II	Н	ECTS
Mathematics for Chemists		
APPLIED MATHEMATICS II		
Applied Mathematics II – Theory	2	2
Applied Mathematics II – Exercise	1	2
Introduction to Chemometrics		
STATISTICS AND INTRODUCTION TO CHEMOMETRICS	S	
Statistics and Introduction to Chemometrics – Theory	1	1
Statistics and Introduction to Chemometrics – Exercise	1	1
Fundamentals of Physical Chemistry		
PHYSICAL CHEMISTRY		
Physical Chemistry – Theory	2	3
Physical Chemistry – Laboratory	2	2
Inorganic Chemistry		
INORGANIC, APPLIED AND INDUSTRIAL INORGANIC	CHEMIS	STRY
Inorganic and Applied Inorganic Chemistry	3	4
Industrial Inorganic Chemistry and Material Sciences	2	2
Organic Chemistry		
Organic Chemistry I	2	3
Analytical Chemistry		
ANALYTICAL CHEMISTRY I		
Analytical Chemistry I: Basic Principles and Inorganic Analysis – Theory	2	3
Analytical Chemistry I: Basic Principles and Inorganic Analysis – Laboratory	4	4
Applied Informatics for Chemists		
APPLIED INFORMATICS II		
Applied Informatics II: Chemistry Related Applications – Theory	1	1
Applied Informatics II: Chemistry Related Applications – Computer Exercise	1	2

Semester III	Н	ECTS
Organic Chemistry		
ORGANIC CHEMISTRY II		
Organic Chemistry II – Theory	3	4
Organic Chemistry II – Laboratory	6	7
Analytical Chemistry		
ANALYTICAL CHEMISTRY II		
Analytical Chemistry II:	2	3
Quantitative Analytical Methods – Theory		
Analytical Chemistry II: Quantitative Analytical Methods – Laboratory	3	4
Applied Informatics for Chemists		
APPLIED INFORMATICS III		
Applied Informatics III:	1	1
Introduction to Programming – Theory	'	'
Applied Informatics III:	1	2
Introduction to Programming – Exercise		
Chemometrics and Data Management		
INTRODUCTION TO CHEMOMETRICS AND DATA MA	NAGEN	1ENT
Chemometrics and Data Management: Applied	1	2
Statistics and Advanced Methods – Theory Chemometrics and Data Management: Applied		
Statistics and Advanced Methods – Exercise	1	2
Spectroscopic Methods and Structure Elucidation		
SPECTROSCOPIC METHODS, STRUCTURE ELUCIDATION	ON	
Spectroscopic Methods and	1	1
Structure Elucidation – Theory	ı	ı
Spectroscopic Methods and	1	2
Structure Elucidation – Exercise	_ '	
Scientific Methods and Tools		
Scientific Skills and Writing	2	2

Semester IV	Н	ECTS
Organic Chemistry		
INDUSTRIAL ORGANIC CHEMISTRY		
Industrial Organic Chemistry and Petrochemistry	2	3
Polymer Chemistry	2	2
Analytical Chemistry		
ANALYTICAL CHEMISTRY III		
Analytical Chemistry III: Instrumental Analysis – Theory	2	3
Analytical Chemistry III: Instrumental Analysis – Laboratory	3	3
Physical Chemistry – Advanced		
Advanced Physical Chemistry	2	3
Biochemistry and Bio Science		
BIOCHEMISTRY AND BIOANALYTICS		
Biochemistry and Bioanalytics – Theory	3	4
Biochemistry and Bioanalytics – Laboratory	3	4
Bioorganic Chemistry	1	1
Chemical Engineering and Process Control		
Chemical Engineering	2	3
Process Control and Design	1	1
Toxicological and Environmental Aspects		
SUSTAINABILITY IN THE CHEMICAL INDUSTRY		
Sustainable Methods and Renewables in Industry	1	1
Green Chemistry and Waste Utilisation	1	1
Quality Management in the Chemical Industry		
Quality Control, GMP and GLP	1	1

Semester V	Н	ECTS
Practical Training Semester		
Practical Training (22 weeks à 30 hours)	0	28
Practical Training Coaching Seminar	1	2

Toxicological and Environmental Aspects Toxicology 1 2 Environmental Aspects in Industry and Ecology 1 1 Quality Management in the Chemical Industry REGULATORY AFFAIRS AND INDUSTRIAL QUALITY MANAGEMENT Law and Regulations 1 1 Principles of Quality Assurance 1 1 Concepts of Business Models 1 1 Elective 1: Instrumental Analysis and Chemometrics SPECIAL TOPICS: FOOD AND ENVIRONMENTAL ISSUES Applied Analysis for Food, Environmental Issues and Pharmaceuticals – Theory Applied Analysis for Food, Environmental Issues and Pharmaceuticals – Laboratory Multivariate Data Analysis (MVDA) and Design of Experiments Multivariate Data Analysis (MVDA) and Design of Experiments (DoE) – Methods Multivariate Data Analysis (MVDA) and Design of Experiments (DoE) – Exercise Data Mining and Visualisation Data Mining and Visualisation – Methods 1 2 Data Mining and Visualisation – Exercise 1 1 Elective 2: Organic and Pharmaceutical Chemistry ADVANCED ORGANIC CHEMISTRY Advanced Organic Chemistry – Heterocycles and Molecules of Life Advanced Organic Chemistry Laboratory – Method Development Computational Methods and Molecular Modelling Computational Methods and Molecular Modelling – Theory Computational Methods and Biopharmaceutical Sciences Medicinal and Pharmaceutical Chemistry: 1 2 Medicinal and Pharmaceutical Chemistry: 2 3 Traditional Drugs and Biopharmaceuticals Pharmaceutics 1 1 1 Scientific Methods and Tools Bachelor Seminar and Bachelor Paper 1 1 8	Semester VI	Н	ECTS
Environmental Aspects in Industry and Ecology Quality Management in the Chemical Industry REGULATORY AFFAIRS AND INDUSTRIAL QUALITY MANAGEMENT Law and Regulations 1 1 Principles of Quality Assurance Concepts of Business Models It lettive 1: Instrumental Analysis and Chemometrics SPECIAL TOPICS: FOOD AND ENVIRONMENTAL ISSUES Applied Analysis for Food, Environmental Issues and Pharmaceuticals – Theory Applied Analysis for Food, Environmental Issues and Pharmaceuticals – Laboratory Multivariate Data Analysis and Design of Experiments Multivariate Data Analysis (MVDA) and Design of Experiments (DoE) – Methods Multivariate Data Analysis (MVDA) and Design of Experiments (DoE) – Exercise Data Mining and Visualisation Data Mining and Visualisation – Methods Data Mining and Visualisation – Exercise 1 1 Elective 2: Organic and Pharmaceutical Chemistry ADVANCED ORGANIC CHEMISTRY Advanced Organic Chemistry – Heterocycles and Molecules of Life Advanced Organic Chemistry Laboratory – Method Development Computational Methods and Molecular Modelling – Theory Computational Methods and Molecular Modelling – Exercise Medicinal and Pharmaceutical Sciences Medicinal and Pharmaceutical Chemistry: Traditional Drugs and Biopharmaceuticals Scientific Methods and Tools	Toxicological and Environmental Aspects		
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Bachelor Exam 0 3	·	-	

Students choose one elective out of two in semester six. Subject to possible alterations (Version 01/2020)



A VERY PERSONAL STORY

Herwig Weissinger comes from Langenlois in Lower Austria. He applied for the Applied Chemistry degree programme straight after finishing secondary school at Bundesrealgymnasium Krems Ringstrasse.

Perfect match for my interests

I have always been very interested in chemistry and science, but wanted to learn more about and understand the processes in our environment. One of my teachers at school recommended the Applied Chemistry programme because of my interests. I applied and was accepted straight away – which I was really pleased about.

Great place to study

Krems is a great place to do a degree like this, because the area has companies operating in the industry that offer internships and entry-level jobs. You're assured of top job prospects – the industry can't wait for us to graduate.

Forward-looking basis for my career

IMC Krems has an excellent reputation and a very international outlook, with students from all over the world. This makes it really special. And the Applied Chemistry programme is also an exceptional degree because of the focus on application – its practical design is especially attractive in the context of chemistry. I'm particularly interested in inorganic chemistry. It's so diverse and varied, with so many applications. At IMC Krems there is a special focus on computer-assisted methods – this is very forward-looking and provides a promising basis for my career.

Tip

If your first language is German, there's no need to worry about English being the language of instruction. It's not a problem at the admissions interview – there's a really friendly atmosphere. If you're well prepared, you'll be able to pull it off.

More stories: www.fh-krems.ac.at



IMC University of Applied Sciences Krems Piaristengasse 1 3500 Krems, Austria, Europe

Prospective Student Advisory Service T: +43 2732 802 222

E: information@fh-krems.ac.at

: www.fh-krems.ac.at















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