

Science
and Technology



University of
Applied Sciences
Krems | Austria

Bachelor

Applied Chemistry

Advanced instrumental analysis for forensics and environment | Online-analytics for drug development and quality control | Organic chemistry and molecules of life | Medicinal chemistry, pharmaceuticals and bio-sciences

www.imc.ac.at

What awaits you during your studies

Applied Chemistry

As a graduate of our Applied Chemistry programme, you will be ready to embark on challenging careers in the chemical industry or a variety of other fields such as bioanalytics, data processing or environmental science.

Your courses will cover inorganic, analytical and organic chemistry as well as physical chemistry and biochemistry. The curriculum features an ideal combination of theoretical subjects and practical training in the lab. Plus: we supplement the chemistry subjects with applied informatics, statistics and process engineering courses. Towards the end of your degree programme you can opt for electives in analytical chemistry or organic and pharmaceutical chemistry.



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 your international career in a multicultural environment.



6 semesters

The degree programme lasts 3 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.

Did you know that ...

... with this bachelor degree, you will be well placed to start a career that involves groundbreaking research or finding solutions to problems facing society today. You will be plotting a course for a career in industry or laying ideal foundations for entry into the world of academic research. On this programme you will work in small groups and learn how to tackle problems from an interdisciplinary perspective.

Modules | Full-time

SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI
GENERAL CHEMISTRY	ORGANIC & BIOORGANIC CHEMISTRY I	ORGANIC & BIOORGANIC CHEMISTRY II	BIOCHEMISTRY & BIOANALYTICS	BACHELOR SEMINAR I	ELECTIVES: ADVANCED INSTRUMENTAL ANALYSIS FOR FORENSICS; DRUG MONITORING & QUALITY CONTROL ADVANCED ORGANIC & BIOORGANIC CHEMISTRY: MOLECULES OF LIFE
GENERAL CHEMISTRY & LAB SAFETY	ANALYTICAL CHEMISTRY I	ORGANIC & BIOORGANIC CHEMISTRY – LABORATORY	INDUSTRIAL ORGANIC CHEMISTRY: INNOVATIVE MATERIALS FROM PETROLEUM TO RENEWABLE RESOURCES	PRACTICAL TRAINING	ELECTIVES: CUTTING-EDGE ANALYTICS; ONLINE MONITORING & SENSOR TECHNOLOGIES MEDICINAL CHEMISTRY, PHARMACEUTICAL CHEMISTRY & DRUG DEVELOPMENT
PHYSICS I	INORGANIC CHEMISTRY – TRANSITION METALS TO APPLICATIONS	SPECTROSCOPIC METHODS & STRUCTURE ELUCIDATION	INSTRUMENTAL ANALYSIS FOR FORENSICS, FOOD, & ENVIRONMENTAL SCIENCES		CHEMISTRY & COMPLIANCE: LAWS, REGULATORY FRAMEWORK AND QUALITY CONTROL
MATHEMATICS I	PHYSICS II	ANALYTICAL CHEMISTRY II	INFORMATICS II – SENSOR TECHNOLOGY & DATA PROCESSING		CURRENT ISSUES: GREEN CHEMISTRY IN ACTION: ENVIRONMENTAL ASPECTS, TOXICOLOGY & DATA-DRIVEN SOLUTIONS
CHEMICAL CALCULATIONS & DATA MANAGEMENT	MATHEMATICS II & STATISTICS	INFORMATICS I – CHEMICAL APPLICATIONS & PROGRAMMING	CHEMICAL ENGINEERING		BACHELOR EXAM
INORGANIC CHEMISTRY – MAIN GROUP ELEMENTS	PHYSICAL CHEMISTRY I	FUTURE SKILLS: ESSENTIAL SKILLS FOR SCIENTISTS	PHYSICAL CHEMISTRY II		BACHELOR SEMINAR II & BACHELOR THESIS

Subject to possible alterations

More details on the curriculum, courses, contact hours and ECTS (European Credit Transfer System) can be found on: www.imc.ac.at



Your professional fields and future areas of responsibility

After your studies, you have the choice of either enrolling for a related master degree or starting your career. Potential career fields include: the pharmaceutical industry, the food industry, environmental authorities, polymer chemistry, bulk chemicals, chemical recycling plants, renewable raw materials processing, basic research (with additional postgraduate education).

IMC. It's all in me.

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Accreditations



Memberships

