

University of Applied Sciences
for Health Professions Upper Austria

Bachelor Programme
Biomedical Science



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GESUNDHEITS
BERUFE OÖ

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for Health Professions Upper Austria

Bachelor Programme

Biomedical Science

Biomedical Science is a fundamental component in medical diagnosis and research. It covers the execution of analytical methods and functional measurements in medical laboratories.

Brief programme profile

Programme duration: **6** Semester, *full-time*



Campus Health, Pyhrn-Eisenwurzen Klinikum Steyr,
Med Campus VI., KUK Linz

Graduation: *Bachelor of Science in Health Studies (BSc)*

43

Study places
per year

Study fees: *yes*

Registration procedure

www.fh-gesundheitsberufe.at/en/bachelor-program/biomedical-science

Phone: **+43 50 344/21000**

Email: BiomedizinischeAnalytik@fhgooe.ac.at

Requirements: *general university eligibility, adequate specific secondary school vocational certificate, certificate of access to higher education, relevant professional qualifications*



The close relation of natural sciences with medicine gives Biomedical Science a complex character that is unparalleled.

Florian Guttmann, BSc
Graduate

Programme

The Bachelor Programme Biomedical Science conveys to the students all the skills and job-related know how, which they need in order to be able to carry out complex analytical process in the lab themselves and to contribute to functional measurements. Here great importance is set on the application of modern analytical technologies and of the utilisation of state-of-the-art analysis procedures.

As well as expertise in technical methodology, the students acquire socio-communicative skills such as conflict management, the ability of selfreflection, capacity for teamwork, role distance etc. Furthermore they learn the fundamental concepts of scientific work. In the accompanying internship the student is offered the opportunity to realise and to intensify the acquired know how under expert guidance.

The study programme is divided into modules, which are partly offered on an inter-disciplinary basis. The curriculum is characterised by a balance between in-depth theoretical education, science and work experience. Graduates of the study programme are in a position, to expertly carry out the allocated tasks, while combining the know how from the various disciplines. They have learned to act reflectively and autonomously in their professional daily routine and to act in accordance with their code of conduct.

Job description

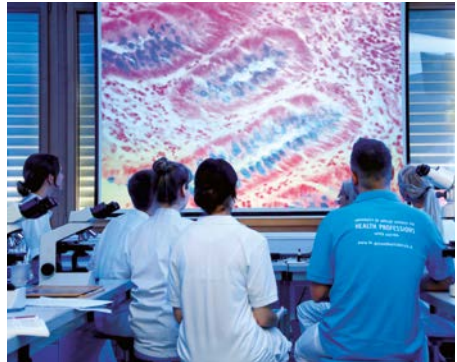
Biomedical Science comprises the independent and autonomous execution of analytical methods, which are necessary within the framework of the medical examination, treatment- and research institutes. The analysis

procedures range from chemical analysis, automated processes to the analysis in cellular and molecular biology. The results attained form the basis for exact therapeutic measures adapted individually to the patients. Complex methodology enables the graduates to apply the varied analytical process in medicinal prevention, diagnosis, therapy monitoring and research.

Biomedical science offers the graduates a variety of professional possibilities such as in the fields of human- and veterinary medicine, in pharmaceuticals- or in the food industry.

Possibilities of further education

The completion of this Bachelor Programme entitles the graduate to participate in professional, but also in management or pedagogical Master Programmes in the field of the health professions. It is also possible to do further master and doctorate studies in Austria or abroad.



Campus locations

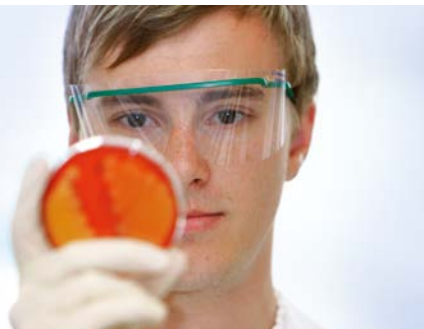
The city Linz with its developed infrastructure of Higher Education Institutes is a well established study location. Furthermore extensive cultural- and recreational facilities, a wide variety of gastronomic – and various residential possibilities as well as the best infrastructure offers the students an optimum study environment with high living quality.



The city Steyr has a long-standing tradition as a school town, is the home to various educational institutes and offers affordable student dormitories. The historic town offers students a lot of advantages such as the best infrastructure, art and culture, various shopping possibilities and excellent gastronomy.



The close connection of the study programmes at the University of Applied Sciences for Health Professions in Upper Austria with the regional hospitals guarantees the successful realisation of the acquired expertise in practice.



Module Plan

Legend: PMC = Professional Methodical Competences, SCPC = Social Communication and Personal Competences, SC= Scientific Competences, PP = Professional Placement

Semester 1	Module	Competence
	General Medical Basics	PMC
	Chemistry 1	PMC
	Clinical Chemistry 1	PMC
	Haematology 1	PMC
	Basics of Health Professionals	PMC
	Communication and Cooperation	PP

Semester 2	Module	Competence
	Specific Medical Basics	PMC
	Clinical Chemistry 2	PMC
	Haematology 2	PMC
	Histology 1	PMC
	Basics of Scientific Skills 1	SC
Professional Placement 1	PP	

Semester 3	Module	Competence
	Chemistry 2	PMC
	Microbiology 1	PMC
	Immunology	PMC
	Histology 2	PMC
	Cytology	PMC
Molecular Biology	PMC	

Semester 4	Module	Competence
	Immunhaematology	PMC
	Functional Diagnostics	PMC
	Microbiology 2 MIK	PMC
	Elective Module 1 – Personal Competences	SCPC
	Elective Module 2 – Social Competences	SCPC
	Basics of Scientific Skills 2	SC
Professional Placement 2	PP	

Semester 5	Module	Competence
	Advanced Biomedical Analysis VLA	PMC
	Extended Biomedical Analysis 1 (Elective module)	PMC
	Extended Biomedical Analysis 2 (Elective module)	PMC
	Professional Placement 3	PP
Professional Placement 4	PP	

Semester 6	Module	Competence
	Applied and Specific Bioanalysis	PMC
	Management in the Health Sector	PMC
	Basics of Scientific Skills 3	SC
Elective Placement	PP	



Business fields

- biomedical laboratories in hospitals, clinics, universities
- institutes for pathology, hygiene and microbiology
- institutions in the blood donor and transfusion sector
- veterinary medicine institutes and/or universities
- science, research and industry – health institutions (prevention, rehabilitation centres)

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4021 Linz, Austria

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