



Study guide Master in Life Sciences

Analytical Chemistry

Cover Picture:

Ferhat loads serum samples in the autosampler for metabolite quantification by UHPLC-MS/MS.

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Quick Facts

Master of Science in Life Sciences FHNW

- ✓ **A coordinated MSc/Master's programme in Life Sciences conducted by the Swiss Universities of Applied Sciences**
- ✓ **Designed for motivated students interested in applied research**
- ✓ **Opens the door to outstanding career opportunities in research, development and production**
- ✓ **Specialisations offered by the University of Applied Sciences and Arts Northwestern Switzerland:**
 - Analytical Chemistry
 - Applied Cell Biology
 - Bioanalytics
 - Biotechnology
 - Chemical Engineering
 - Data Science
 - Environmental Technologies
 - Organic and Supramolecular Chemistry
 - Pharmatechnology
- ✓ **Three semesters full-time study, 90 ECTS credits; part-time studies possible**
- ✓ **MSc / Master's thesis: 40 ECTS credits, modules: 50 ECTS credits**
- ✓ **Admission: good BSc degree in a relevant subject**
- ✓ **Admission deadlines: April 30th (autumn semester) and November 30th (spring semester)**
- ✓ **Start of studies: mid-September and mid-February**
- ✓ **Tuition fees: CHF 750 per semester (Swiss, Liechtenstein), CHF 1 000 (EU), otherwise CHF 5 000; CHF 100 per semester for materials and licences**

The FHNW School of Life Sciences

Introduction

The FHNW School of Life Sciences (HLS) is a leading Swiss School for education and application-oriented research in Life Sciences. With a network of industry and research partners, the HLS is a unique university centred around technology development in medical, natural, environmental and engineering sciences. The state-of-the-art infrastructure facilitates translating cutting-edge research into practice. Benefits for patients, innovative products, intelligent solutions and environmentally friendly technologies are the ultimate goal.

The Master's study programme combines lectures on applied life sciences with practical experience in an eight month Master's thesis. The core of the life sciences study programme consists of scientific knowledge for research and development, coupled with practical experience. Students may assemble their own curriculum from available modules. In order to prepare optimally for a professional career, the course also covers essential management skills. Graduates are ultimately expected to prove their abilities in a competitive and international life sciences environment.



Basel – Centre of the global Life Sciences Industry

The School of Life Sciences FHNW in Muttensz (Canton Basel-Land) is situated in one of the global centres of the life sciences industry. Several international companies have their headquarters in the Basel area, e.g. Roche, Novartis, Clariant, Straumann and Syngenta, to name just a few. Apart from these, around 600 other companies in the life sciences sector conduct development, research or production in the Basel area. Together they offer approximately 30,000 high-powered jobs.

The lecturers of the School of Life Sciences cooperate closely with local industry in joint projects. *In addition, the majority of Bachelor's and Master's theses are completed with a partner in industry.* And the Basel area is not only attractive with regard to job opportunities but is also part of the vibrant Rhine valley region where Switzerland, France and Germany meet and which offers many options for entertainment and leisure activities.



Qualified experts for the growing Life Sciences market

The Master's programme

The MSc study programme gives graduates specialist knowledge enabling them to integrate quickly and effectively into the global industrial life sciences sector and related fields. MSc graduates have broad training and extensive knowledge, combined with in-depth practical experience. During the eight months of their thesis, they demonstrate that they can work independently on demanding projects.

With these qualifications, graduates of the programme are able to plan and carry out projects in the fields of applied research, development, translational research and production. They are also aware of entrepreneurial issues such as budgeting, personnel, deadlines, markets and products.

Graduates are able to present and explain the results of their work in their native language and in English to other specialists as well as to colleagues with different backgrounds. They bring high-level skills and knowledge to multi-disciplinary and interdisciplinary teams.

New career prospects

MSc graduates typically hold positions in organisations where they manage and participate in projects that build on their expertise. Such organisations are active in chemistry, biotechnology, environmental protection and nutrition as well as pharmaceutical and medical technology. The Master of Science degree is internationally recognised and allows students to continue their studies with a doctorate in most countries.

Where Life Sciences come alive

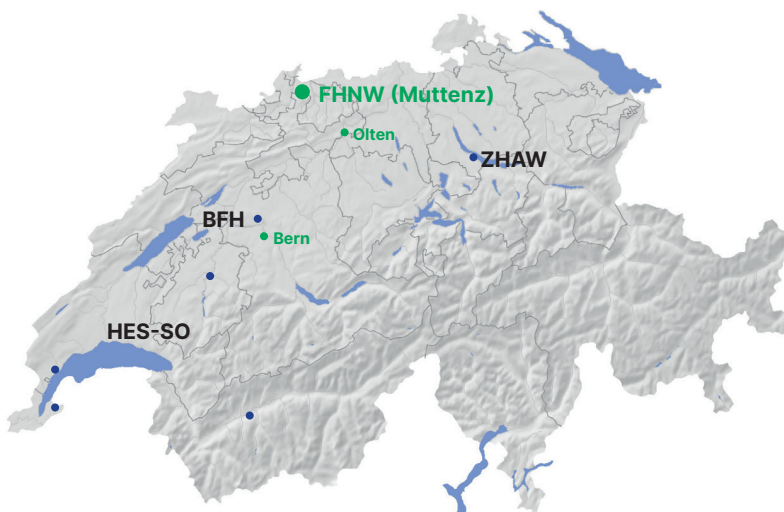
The Master's programme

The international Master of Science in Life Sciences is conducted in collaboration with other Swiss Universities of Applied Sciences: Berner Fachhochschule BFH, Haute Ecole Spécialisée de la Suisse Occidentale HES-SO and Zürcher Hochschule für angewandte Wissenschaften ZHAW.

Programme structure

The MSc study programme encompasses lectures (50 ECTS credits) and the thesis (40 ECTS credits). The Specialisation modules are offered by the School of Life Sciences FHNW and take place in MuttENZ/ Canton Basel-Landschaft. The Core Competence modules and the Cluster-specific modules, which are organised in cooperation with the partner universities, are held in Olten and Bern and are offered partly online.

The modules are offered during the semesters (see pages 10–11). All modules usually take place at least once a year. The students are supported by an innovative e-learning platform.



Study consultation

After acceptance, the Dean of the programme will consult each student regarding which modules shall be taken in which semester. Thus each student will have an individual study programme that best meets his/her interests. It is also possible to complete part of the course at a foreign higher education institution.

Teaching language

The language of teaching is English. This requires that in addition to the technical and scientific skills applicants must be able to read scientific articles and books, follow the lectures, participate in discussions and be able to write the thesis in English on their own. Therefore, it must be emphasised that students who want to undertake the MSc programme need adequate skills in English (see also page 22).

Educational concept

The educational concept of “blended learning” combines independent learning with lessons on site. When preparing course contents, modern forms of teaching and learning such as e-learning and case studies are included. In seminars and workshops, students deal with challenging issues and differing points of view. Complex issues will be explained by the instructors in lessons. In the Master’s programme, great emphasis is put on “research learning,” where traditional teaching is augmented by individual context-based knowledge generation.


Start

The programme starts in the autumn semester (calendar week 38) or in the spring semester (calendar week 8).

Completion

Successful completion of the course leads to the award of the title “Master of Science” which is recognised around the world.

Learn more

The School of Life Sciences FHNW offers information evenings that provide more details about the MSc study programme. [Please check the website for more information and dates.](#) 



Structure of the study programme

The Master’s programme

Full-time students

The MSc study programme comprises 90 ECTS credits. Shown here is a full-time study plan starting in the autumn semester (1.5 years):

Study plan

| Autumn semester | | Spring semester | | | |
|---|-----|---------------------------------|-----|-------------------|-----|
| Sep | Feb | Feb | Jun | Jun | Sep |
| Lectures (1 st sem.) | | Lectures (2 nd sem.) | | Thesis (8 months) | |
| Thesis (3 rd sem., 8 months) | | | | | |

Programme structure full-time students

| | | |
|--|---|----------------------|
| Master's thesis 8 months from end of 2nd to 3rd semester | | 40 ECTS credits |
| Modules | | min. 50 ECTS credits |
| Core Competence Modules | Specialist Modules | |
| 4–8 modules of 3 ECTS are taken during the first two semesters (for details see pages 12–13 & 18–19) | 9–13 modules of 3 ECTS are taken during the first two semesters (for details refer to modules groups pages 14–19) | |

Note: It is possible that modules or final exams take place outside the semester.

Part-time students

It is also possible to study part time. In this case, the studies take approximately six semesters depending on the individual study plan. Part-time students may work in parallel – as a guideline 50 to 60 percent workload is appropriate. Other plans are possible; please consult the Dean.

Study plan

| Autumn semester | | Spring semester | | | |
|---|-----|---------------------------------|-----|-------------------------|-----|
| Sep | Feb | Feb | Jun | Jun | Sep |
| Lectures (1 st sem.) | | Lectures (2 nd sem.) | | | |
| Lectures (3 rd sem.) | | Lectures (4 th sem.) | | Thesis (8 or 12 months) | |
| Thesis (5/6 th sem., 8 or 12 months) | | | | | |

Programme structure part-time students

| | | |
|--|---|----------------------|
| Master's thesis 8 months from end of 4th to 5th semester or 12 months from end of 4th to 6th semester | | 40 ECTS credits |
| Modules | | min. 50 ECTS credits |
| Core Competence Modules | Specialist Modules | |
| 4–8 modules of 3 ECTS are taken during the first four semesters (for details see pages 12–13 & 18–19) | 9–13 modules of 3 ECTS are taken during the first four semesters (for details refer to modules groups pages 14–19) | |

Note: It is possible that modules or final exams take place outside the semester.

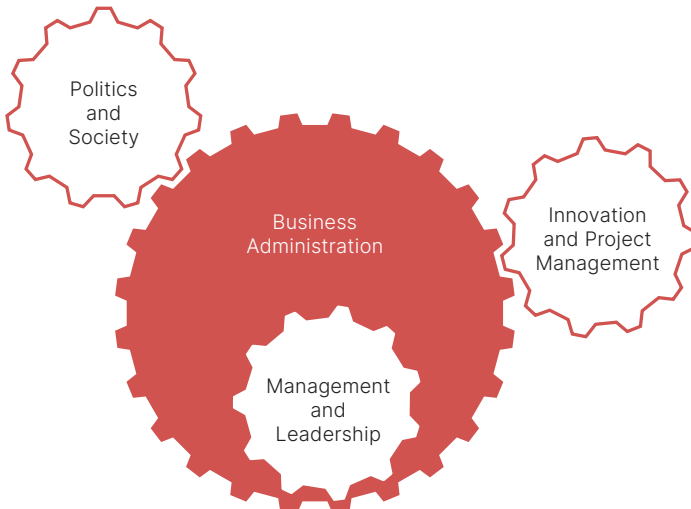
Core Competence modules

The Core Competence modules are designed to introduce students to the life sciences industry, focusing on professional life within the industry as well as providing insight into data handling and analysis techniques.

Business, Management and Society

Three of the modules – Business Administration, Management and Leadership, and Project and Innovation Management – focus on providing an understanding of how Life Sciences companies function. In contrast, the fourth module is devoted to the social, political and ethical context within which Life Sciences companies operate.

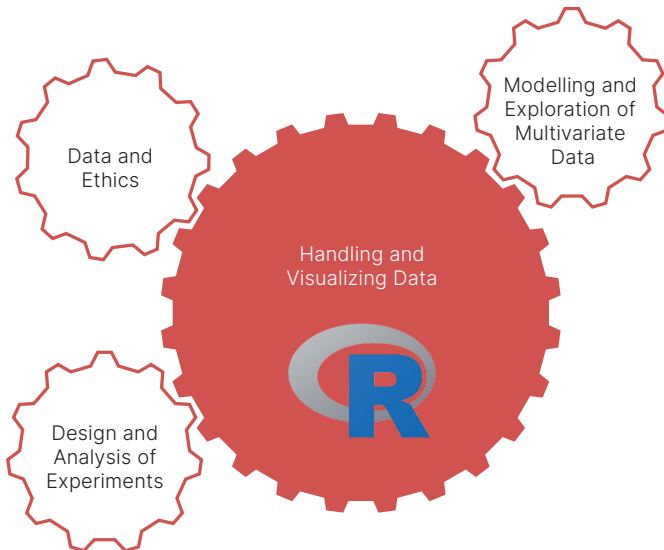
Students who complete these modules will have an understanding of how Life Sciences companies work, how they are managed, and how they are led. They will therefore be aware of diverse entrepreneurial issues and be thoroughly prepared for a career in the industry.



Data

The four Data Core Competence modules (Handling and Visualizing Data, Design and Analysis of Experiments and Modelling, Exploration of Multivariate Data and Data and Ethics) reflect the increasing importance of information in all technical and scientific areas. Today more and more data is generated and gathered than ever, and it needs to be skillfully analyzed in order for companies to profit from it. In three modules students are trained to plan and design experiments, to handle large data sets, to visualize them, and to analyze them with state-of-the-art methods. The modules use “R”, a powerful and open software suite for data analysis. The fourth module, “Data and Ethics”, is addressed towards data management, privacy and data security.

After having completed the data modules students will have acquired all the necessary skills to analyze their own data, to prepare high quality figures for meaningful data visualization, and to select and apply the appropriate methods for data analysis and data management.



Specialisation

Analytical Chemistry

MSc in Life Sciences – Specialisation Analytical Chemistry

The Analytical Chemistry specialisation gives students an excellent foundation for work in industrial and academic fields. Analytical Chemistry provides core technologies at the interface of almost all life science disciplines, for example it plays a central role in the investigation of drugs, formulations, metabolites, foodstuffs, natural products, materials as well as medical products. Demand for analytical chemistry specialists is continuously rising as technological developments and an increasing demand for deeper insights into biological systems on a molecular level drive research activities in life sciences. Consequently, studying analytical chemistry provides exceptional local, national and global work opportunities.

The curriculum of the MSc in Life Sciences – Analytical Chemistry is designed to provide students with a solid understanding of the principles and core technologies of analytical chemistry. Modules focus on analytical strategies for investigation, characterization identification and imaging

of metabolites, biomarkers, proteins, drug formulations and tissues of living biological systems. The impact of modern mass spectrometry and NMR spectroscopy on life science applications are addressed in two modules, where state of the art technologies are studied (e.g., high-resolution MS/MS 2D NMR techniques, including pulsed field gradients, and rapid data acquisition). Investigation of protein structures, solid state characterization and translational imaging of biological systems are addressed in two other dedicated modules.

Further modules can be chosen from related specialisations, in particular Organic and Supramolecular Chemistry, Bioanalytics, Applied Cell Biology, Biotechnology, Data Science and Pharmatechnology. The broad range of specialised and generic modules allows each student to create an individually tailored study programme (see pages 16–19).

Students may also study an extra semester at a foreign partner university, allowing them to gain an additional degree (Double Degree, page 21 for details).

The MSc concludes with an eight month thesis, usually conducted on site at one of the industrial partners in our network. Alternatively, the thesis can be carried out at any university world-wide which meets our standards. The eight month thesis forms the basis for successful employment in industry or in academia.

In summary, the programme is designed to prepare students optimally for a career in analytical chemistry, bioanalytics or related fields including the pharmaceutical and biopharmaceutical sectors.

The MSc in Life Sciences – Analytical Chemistry is especially suited for students with a BSc degree in Chemistry, Biochemistry, Pharmacy or related fields. For admission please consult page 22.

Further Specialisations offered in the MSc in Life Sciences FHNW

- Applied Cell Biology
- Bioanalytics
- Biotechnology
- Chemical Engineering
- Data Science
- Environmental Technologies
- Organic and Supramolecular Chemistry
- Pharmatechnology

[Please consult the respective Study Guides for your information.](#) 



Module Groups for the Specialisation Analytical Chemistry

| | Type | Semester | Venue |
|---|------|----------|---------|
| Module Group Analytical Chemistry (4 out of 5) | | | |
| Advanced NMR Spectroscopy | S | AS | Muttenz |
| Biostructures and Solid State Sciences | S | AS | Muttenz |
| Advanced Mass Spectrometry | S | SS | Muttenz |
| Molecular & Translational Imaging | S | SS | Muttenz |
| Proteomics and Protein Analytics | S | SS | Muttenz |
| Module Group Electives (4 out of 8 required) | | | |
| Bio-interfaces and Bio-conjugate Chemistry | S | AS | Muttenz |
| Cellular Imaging | S | AS | Muttenz |
| Genomics | S | AS | Muttenz |
| Biomarker | S | SS | Muttenz |
| Modern Technologies in Organic Synthesis | S | SS | Muttenz |
| Laboratory Automation in the Pharmaceutical Industry | S | SS | Muttenz |
| Process Analytical Technology | S | SS | Muttenz |
| Supramolecular Chemistry and Nanochemistry | S | SS | Muttenz |

N.B. In total 50 ECTS (meaning 17 modules à 3 ECTS) have to be gained.

Complete Module Offer: www.fhnw.ch/hls/master-ls-module 

Webtool to plan your studies: <https://planyourstudies.lifesciences.fhnw.ch/> 



Contents

| | |
|--|---|
| | |
| | One- and two dimensional NMR spectroscopy, polarization transfer experiments, product operator formalism, gradients, fast data acquisition |
| | Crystallography, powder X-ray, protein structure determination, cryo electron microscopy, solid state characterization |
| | Technological aspects of mass spectrometry, metabolomics, proteomics, trends and applications in mass spectrometry, student presentations |
| | Current key imaging modalities, positron emission tomography, magnetic resonance imaging, spectroscopic imaging methods |
| | Protein identification by mass spectrometry, quantification, posttranslational modifications, light-scattering, infrared spectroscopy, calorimetry, turbidimetry, CD spectroscopy |
| | |
| | Surface chemistry, surface structuring, organ on a chip, bioconjugation, biocompatibility, surface-tissue interactions |
| | Physics of imaging, molecular imaging, confocal imaging, super-resolution imaging, live imaging, alternatives to light microscopy, applications |
| | Next generation sequencing technologies, genomics in a clinical context, liquid biopsy, practical exercise, student workshop: genome engineering |
| | Type of biomarkers, design of study to identify biomarkers, traditional and novel types of biomarkers, student group work on biomarker identification |
| | Photochemistry, electrochemistry, synthesis in flow systems, organocatalysis and biocatalysis |
| | Robotics, liquid handling, sensors, automated pharmacological characterization of drug candidates, automated cell culture and production of biologics |
| | Process analytical technology in research, development and manufacturing, at-line and online analytics, multivariate data analysis and design of experiments, case studies |
| | Supramolecular interactions, reversible covalent bonds, supramolecular catalysis, supramolecular medicinal chemistry |

S = Specialisation module
 CS = Cluster-specific modules
 CC = Core Competences

AS = Autumn semester
 SS = Spring semester

-1: first semester half
 -2: 2nd semester half
 -Bx: block week after the semester

Module Groups for the Specialisation Analytical Chemistry

| | Type | Semester | Venue |
|--|------|----------|---------------------------------------|
| Module Group Cluster-Specific (3 out of 7 required) | | | |
| Compound Profiling in Pharmaceutical Drug Discovery | CS | AS-1 | Olten/online |
| Physicochemical Principles in Pharmaceutics | CS | AS-2 | Olten/online |
| Surface Characterisation | CS | AS-2 | Olten/online |
| Bioanalytics in a Regulated Environment | CS | AS-B3 | Muttenz |
| Green Chemistry | CS | SS-1 | Olten/online |
| Foodomics | CS | SS-1 | Bern/online |
| Chemistry and Energy | CS | SS-2 | Olten/online |
| Module Group Core Competences (4 out of 8 required) | | | |
| Handling and Visualizing Data | CC | AS-1A | Lectures: online Coaching: Muttenz |
| Data and Ethics | CC | AS-1B | Lectures: online Coaching: Muttenz |
| Design and Analysis of Experiments | CC | AS-2A | Lectures: online Coaching: Muttenz |
| Modelling and Exploration of Multivariate Data | CC | AS-2B | Lectures: online Coaching: Muttenz |
| Business Administration for Life Sciences | CC | SS-1A | Lectures: online Coaching: Muttenz |
| Management and Leadership for Life Sciences | CC | SS-1B | Lectures: online Coaching: Muttenz |
| Innovation and Project Management | CC | SS-2A | Lectures: online Coaching: Muttenz |
| Politics and Society | CC | SS-2B | Lectures: online Coaching: Muttenz |

N.B. In total 50 ECTS (meaning 17 modules à 3 ECTS) have to be gained.

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Webtool to plan your studies: <https://planyourstudies.lifesciences.fhnw.ch/> 



Contents

| | |
|--|--|
| | |
| | Target identification, clinical candidate selection, ADME, toxicology assessment, validity of test models, extrapolation from animal and in vitro studies to man |
| | Interfacial phenomena, surfactants, pharmaceutical nanotechnology, colloids, rheology, pharmaceutical polymers, micromeritics, compaction |
| | Advanced microscopy, infrared and Raman spectroscopy, EDX, WDX, XPS; Interactions with surfaces: SPR, QCM, OWLS, contact angle, ellipsometry |
| | Concept of specification, development phases of a test methods, monographs for biopharmaceuticals, GMP requirements, analytical SOP |
| | Green chemistry metrics, industrial green chemistry, green solvents |
| | Digestive tract and ingestion, techniques for nutrigenome, microbiome and metabolome analysis, data mining |
| | Chemical energy storage, biogas, bioenergy, photocatalysis, photovoltaics, energy and mobility |
| | |
| | |
| | Introduction to R, organising data, databases, describing data: scatter, skewness, outliers, visualising data, informative plots |
| | Personal data security, information security, encryption, digital signatures, data stewardship, data ethics, privacy |
| | Statistical inference, experimental design, feasibility, efficiency and power of experiment designs, statistical analysis, interpretation and visualisation of results |
| | Modelling: linear, nonparametric and multiple regression, model selection and diagnosis; exploration: visual inspection, principal component analysis, clustering |
| | Business models, marketing, production, sourcing, capital budgeting, financial accounting, cost accounting |
| | Management, corporate ethics, strategic management, HR management, leadership, change management |
| | Entrepreneurship, megatrends, innovation management, presentation techniques, project management |
| | Politics: a process of negotiation, struggle and compromise; the role of society; public opinion, responsibility, ethics |

S = Specialisation module
 CS = Cluster-specific modules
 CC = Core Competences

AS = Autumn semester
 SS = Spring semester

-1: first semester half
 -2: 2nd semester half
 -Bx: block week after the semester

The Master's thesis

The Master's programme

Amounting to 40 ECTS points, the thesis is the most important module of the MSc programme. It addresses a scientific or technical question of practical relevance and is carried out either at an institute of the School of Life Sciences FHNW, at the site of an industrial partner or at a foreign university or research institute. In all cases, the student is supervised by a member of the school's faculty.

The thesis has to be written in English and lasts eight months in full-time study.

Our Partner Schools

Double Degree


Double-Degree with Linköping University

Selected students on our Master's programme can complete a double degree by taking an additional semester at the Linköping University, earning them two titles of MSc in Life Sciences FHNW and MSc in Chemistry from the University of Linköping.



[Double Degree](#) 

Partner School

The School of Life Sciences has over 40 [international partner schools](#)  all over the world. Students may spend one semester at a foreign university in selected MSc programmes. In addition, it is possible to do the Master's thesis abroad. The School of Life Sciences is a member of the SEMP (Swiss European Mobility Programme) which supports student exchanges within Europe.



Cooperation with the University of Basel

Students of the MSc programme may visit additional lectures offered by the University of Basel. Please consult the Dean for details.



Universität
Basel

General information

Admission and enrolment

Terms of admission

As a rule, outstanding bachelor's degree qualifications are accepted for the MSc programme.

Candidates will be admitted without an entry examination if they have

- gained a BSc in a related subject and graduated with grade A, B or ≥ 5 , or demonstrated an equivalent qualification (≤ 2.5 for Germany / Austria)
- the required English skills


Motivated students who do not fulfil the entry requirements entirely might be invited for an assessment interview.

Adequate English competency has to be proven with one of these certificates:

| Type of certificate | Required level | |
|------------------------------------|--|--------|
| CAE | (Certificate of Advanced English) | FCE |
| IELTS | (English Language Testing System) | 5.5 |
| TOEFL | (Test of English as a Foreign Language) | iBT 71 |
| Spoken or Written Academic English | (module of the Bachelor programme at the School of Life Sciences FHNW) | 4.5 |

In the event of a lower English level, the applicants may be admitted but have the obligation to improve their English during the Master's course. They may attend the Advanced English course offered by the School of Life Sciences or may attend other courses. At the end of the studies, students have to prove that they have attained the required English level (see table above).

Application

Deadline for applications is end of April for the autumn semester (start in calendar week 38) and end of November for the spring semester (start in calendar week 8). Please apply online via our [webportal](#). 



Fees and grants

General information

| Fees and expenses | | |
|--|-----|------|
| Tuition fees per semester for students domiciled in a Swiss canton, or in the Principality of Liechtenstein* | CHF | 750* |
| For students who are legally resident in the EU/EFTA at the start of their studies, the semester fees are | CHF | 1000 |
| Tuition fees per semester for all other students | CHF | 5000 |
| Materials and licences per semester | CHF | 100 |
| Enrolment fee | CHF | 200 |
| Graduation fee | CHF | 300 |
| It is expected that students own a notebook PC | | |

Grants

In Switzerland, grants are regulated on a cantonal basis. The canton of your place of residence decides on grants or interest-free loans. In addition to public grants, there are also private institutions that award scholarships.

* Essentially the tuition fee of CHF 750 applies to those students whose parents or guardians are in Switzerland or Liechtenstein; who are citizens of Switzerland, Liechtenstein; who for the previous two years were financially independent due to being employed in Switzerland, Liechtenstein and who did not undertake any higher or further education in this time.

FHNW University of Applied Sciences and Arts Northwestern Switzerland

General information

The FHNW University of Applied Sciences and Arts Northwestern Switzerland is a leading education and research institution with strong links to the surrounding region. It is one of the most innovative universities of applied sciences in Switzerland.

The FHNW comprises nine schools covering the following fields: Applied Psychology, Architecture, Civil Engineering and Geomatics, Art and Design, Business, Education, Life Sciences, Music, Social Work and Technology.

More than 13,100 students are enrolled at the FHNW campuses in the cantons of Aargau, Basel-Land, Basel-Stadt and Solothurn. Around 1,300 lecturers teach 31 bachelor's and 20 master's degree courses as well as a range of practical and market-focused continuing education programmes. FHNW graduates are highly sought-after specialists.

Application-oriented research and development has an equally high priority at the FHNW. With national and international partners from industry, business, culture, government and institutes, the FHNW runs research projects and is an active participant in European research programmes.

The FHNW supports the transfer of expertise and technology to firms and institutions: in 2020, application-oriented research and development included 1,291 research projects and 359 service projects.



We are at your service

Contact and student advisory service

Address

FHNW University of Applied Sciences and Arts
Northwestern Switzerland
School of Life Sciences
Hofackerstrasse 30
4132 Muttenz
Switzerland

Contact

Director of Studies
Prof. Dr. Julia Rausenberger
T +41 61 228 56 58
E lehre.lifesciences@fhnw.ch

Dean, Student Advisory Service
Prof. Dr. Georg Lipps
T +41 61 228 54 52
E georg.lipps@fhnw.ch

www.fhnw.ch/lifesciences



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The FHNW incorporates nine faculties:

- FHNW School of Applied Psychology
- FHNW School of Architecture, Civil Engineering and Geomatics
- FHNW Academy of Art and Design
- FHNW School of Business
- FHNW School of Engineering
- **FHNW School of Life Sciences**
- FHNW Academy of Music
- FHNW School of Social Work
- FHNW School of Education

FHNW University of Applied Sciences and Arts
Northwestern Switzerland
School of Life Sciences
Hofackerstrasse 30
4132 Muttenz
master.lifesciences@fhnw.ch



fhnw.ch/master-lifesciences