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Lehre auf Master Ebene in pharmazeutischer Technologie
an der Hochschule für [industrielle] Life Sciences – FHNW

seit 2008

neu für die Schweiz

Gegenstand / Fokus

Technisch / technologischer
Teil der pharmazeutischen
Wissenschaften

Vom Wirkstoff zum
verkaufsfertigen Arzneimittel

Entwicklung Herstellung
Delivery

Formulierung
Prozess
Betrieb
Qualität
Bioverfügbarkeit

Forschungsbasiert

Praxis bezogen

Industrienah

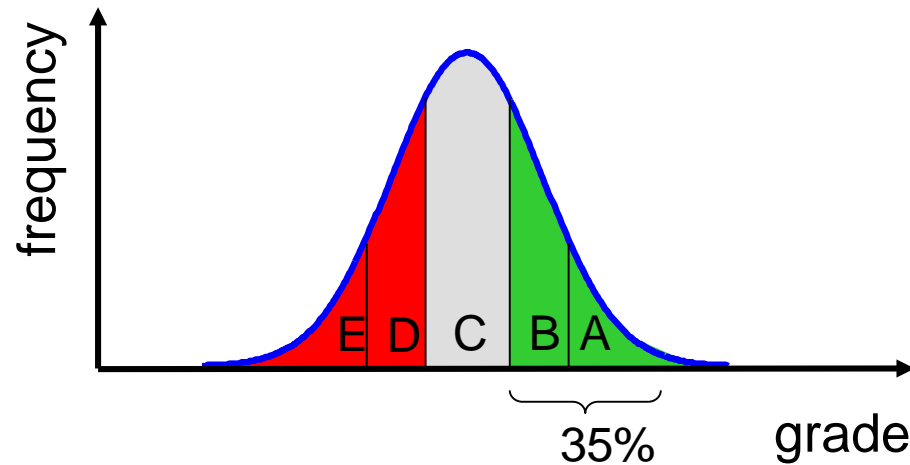
Berufsbefähigend

Wissenschaftlich
fundiert

Studiengänge nach Bologna

Bachelor of Science
Master of Science

MSc Admission Requirements



A, B or grade ≥ 5 from a relevant Bachelor Degree program.

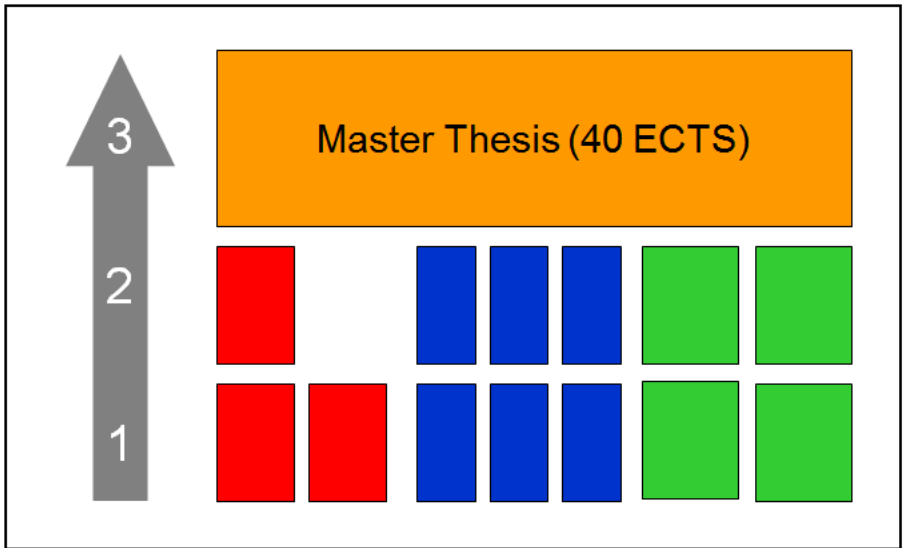
Equivalent education and professional experience.

Eligibility evaluation, Interview and/or proficiency examination.

FCE

TOEFL

MSc Program Structure



- Entrepreneurial Skills (4 ECTS) management skills
 - Advanced Life Science Skills (3 ECTS) broad knowledge
 - Major (5 ECTS) deep expertise
- } Cooperation
- } FHNW

Entrepreneurial skills – MSc

Fach	ECTS	
Leadership	4	Wahlpflicht
Innovation and knowledge management	4	Wahlpflicht
Business management	4	Wahlpflicht
Communication and marketing	4	Wahlpflicht
Society and politics	4	Wahlpflicht
Total	12	

Advanced Life Science Topics – MSc

Fach	ECTS	
Material science	3	Wahlpflicht
Biodiversity	3	Wahlpflicht
Polymers and applications	3	Wahlpflicht
Natural products	3	Wahlpflicht
Modeling complex systems	3	Wahlpflicht
Cellular and molecular physiology	3	Wahlpflicht
Data management and visualization	3	Wahlpflicht
Applied statistics	3	Wahlpflicht
Management of R&D projects	3	Wahlpflicht
Life cycle assessment	3	Wahlpflicht
Nutrition and chronic diseases	3	Wahlpflicht
Quality excellence	3	Wahlpflicht
Sustainable development	3	Wahlpflicht
Total	18	

Major in Pharmaceutical Technology – MSc

Fach	ECTS	
Drug formulation and delivery <ul style="list-style-type: none"> Controlled release Routes of administration Macromolecular drugs Per-oral poorly water-soluble drugs 	5	Pflicht
Drug manufacturing <ul style="list-style-type: none"> Advanced pharmaceutical production units System dynamics of production processes Processing of biologics Technical services and process media 	5	Pflicht
Instrumental analytics	5	Wahlpflicht
Chemical engineering	5	Wahlpflicht
Nanotechnology	5	Wahlpflicht
Sustainable production and clean technologies	5	Wahlpflicht
Applied bio-analytics	5	Wahlpflicht
Medical systems	5	Wahlpflicht
Master's thesis	40	Pflicht
Total	60	

Courses at the University of Basel – MSc



Belegen durch Studierende der Fachhochschule Nordwestschweiz

Aufgrund eines Abkommen zwischen der Universität Basel und der Fachhochschule Nordwestschweiz (FHNW) werden Studierende, die an der FHNW immatrikuliert sind und dort die volle Semestergebühr bezahlen, an der Universität Basel ohne Immatrikulation für den Besuch einzelner Lehrveranstaltungen zugelassen und können Kreditpunkte erwerben.

Master Double Degree

Double Degree between UCT Prague (University of Chemistry and Technology) and School of Life Sciences (FHWN MuttENZ) for MSc in Life Sciences

- Selected MSc. Students enrolled in the *MSc in Life Sciences* will have the possibility to study one **additional** semester in the *MSc in Drug Synthesis and Manufacturing* at the UCT Prague
- Double-Degree students will obtain two diplomas: *MSc in Life Sciences FHWN* and *MSc in Drug Synthesis and Manufacturing UCT Prague*. The combination of degrees is especially helpful for students aiming to pursue a PhD.
- Double degree students are eligible for support by the Swiss-European Mobility Programme (SEMP) and may receive a monthly allowance of 300 CHF.
- Students of the School of Life Sciences after having successfully completed the first two semesters of the *MSc in Life Sciences* can study the **third semester (autumn semester)** at the UCT Prague in one of two sub-programmes:



Master Double Degree


Modules (ECTS) offered in <i>Manufacturing of Pharmaceuticals</i>	Modules (ECTS) offered in <i>Biotechnology of Pharmaceuticals</i>
Laboratory project III (7) Pharmacology (5) Engineering in Chemical and Pharmaceutical Processes (6) Safety Engineering (4) Process Design (5) Membrane Processes (4) Separation Processes (5) Trends in Biotechnologies (5) Technical Catalysis (5) Macromolecular Chemistry (4)	Bioengineering (6) Trends in Biotechnologies (5) Isolation and Separation Methods (4) Programme project (10) One elective course to be selected among: <ul style="list-style-type: none"> - Risks in Biotechnologies (5) - Isolation and Analysis of Biomacromolecules (5) - Organic Chemistry of Natural Compounds (5) Optional elective courses
In total 30 ECTS have to be gained.	In total 30 ECTS have to be gained.

- The MSc thesis is conducted during the fourth semester under the auspices of the School of Life Sciences or the UCT Prague depending upon the MSc subject chosen by the student.
- MSc thesis of the double-degree students are jointly supervised and evaluated by professors from the School of Life Sciences and from the University of Chemistry and Technology.

Master Double Degree with UCT Prague



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Master Double Degree in Drug Synthesis and Manufacturing

Partner university: University of Applied Sciences and Arts Northwestern Switzerland,
School of Life Sciences (HLS) (Switzerland)

Master of Science (MSc) in Drug Synthesis and Manufacturing at UCT Prague and Master of Science (MSc) in
Life Sciences FHNW at HLS

Contact Details

Incoming students
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