

Department of Chemical Engineering

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Orientation and Choice of Study Programme

FH Münster
Student Counselling and Information Centre in Steinfurt
Stegerwaldstraße 39, Raum A 030
48565 Steinfurt
Phone: +49 (0)2551 9-62056

Student Counselling and Information Centre
(Visitor adress)
Hüfferstraße 27, Raum B 012
48149 Münster
Phone: +49 (0)251 83-64150
studienberatung@fh-muenster.de
www.fh-muenster.de/zsb

Application and Enrolment

FH Münster
Service Office for Students in Münster
Hüfferstraße 27, Raum B 028
48149 Münster
Tel. +49 (0)251 83-64700
serviceoffice@fh-muenster.de
www.fh-muenster.de/serviceoffice

April 2024

At a glance

- **Standard study duration** 4 semesters
- **Entrance qualification** minimum 2.5 (German scale)
- **Degree** Master of Science (M.Sc.)
- **Study location** Steinfurt
- **Costs** Semester fee
- **Course start** Winter term
- **Requirements** see "Admission requirements"
- **Application** see website "Central Advisory Service Application for Admission"

For further information about the Master degree course please refer to our website: fh.ms/ciw_m-ce



Admission Requirements

A first qualifying degree of at least 180 credit points or 6 semesters in Chemical Engineering or a related area with a final grade of at least "good" (2.5).

Proof of sufficient English skills verbally and in writing by evidence of a B2-level according to the European Reference Framework. Proof may be given e.g. by a TOEFL-Test with an evaluation of at least 87 points „internet based“ or an IELTS-Test with a score of at least 6.0.

Graduates with other degrees may be admitted as an exception but subject to conditions. The necessary assessments will be made by the examination office.

The first semester starts at winter term each year. Exceptions are possible after prior consultation with the examination committee.

Chemical Engineering

Master of Science (M.Sc.)





The Master degree course Chemical Engineering qualifies for professional scientific work. Building on a qualified B.Sc. degree, the course supports scientific broadening of knowledge in the area of Applied Chemistry or Chemical Processing. Successful completion of the Master course enables admission to doctoral programmes.

Course objective

The four-semester Master Degree Course “Chemical Engineering” will teach theoretical, research-based and applied contents.

Teaching and research are organized in a way that an intensive and research-based broadening of knowledge is possible in order to prepare students for leading positions in their future career.

After successful graduation you are able to develop procedures and subjects in this professional field independently and scientifically.

Professional fields

The Master degree enables you to start a career in technical and scientific fields. You will fill positions in which you benefit from your profound knowledge e.g.

- a scientific-based profession in industry or research institutes;
- leading positions in industry, administration and research institutes;
- research work with the aim of a doctorate.



Contents and course of study

You broaden your experience either in Applied Chemistry (AC) or Chemical Processing (CP). In addition to the three compulsory modules of the respective specialization, you will have elective modules which comprise lectures, tutorials and related practical trainings. In addition to these three compulsory modules, you complete elective modules that you choose from the compulsory catalog I and/or II.

You choose modules with a total of at least 42 credit points from compulsory catalog I. From the compulsory catalog II, which is a joint offer of the Technology Campus Steinfurt, you can choose modules with a maximum of 12 credit points.

You will also carry out three project assignments, whereby the first project assignment serves as an introduction to working in a chemical laboratory, while the second project assignment is a literature assignment and the topic of the third project assignment can be freely chosen. If you can already demonstrate relevant experience in the chemical laboratory, the topic of the first project work can also be freely chosen. For the overall grade of the project module (project work 1, 2 and 3 with a total of 12 credit points), the average of the second and third project work is calculated.

During your five-month Master’s thesis in the fourth semester, you will demonstrate that you can independently differentiate, generate and develop a topic from the subject area in its technical details and interdisciplinary connections using scientific methods.

MASTER OF SCIENCE – »CHEMICAL ENGINEERING«

Compulsory modules	
Broadening of knowledge in Applied Chemistry (AC)	Broadening of knowledge in Chemical Processing (CP)
Compulsory modules ➤ Advanced Inorganic Chemistry ➤ Advanced Organic Chemistry ➤ Advanced Physical Chemistry	Compulsory modules ➤ Heat and Mass Transfer ➤ Unit Operation ➤ Chemical Reaction Engineering
Electives Broadening of knowledge in Applied Chemistry e.g. ➤ Modern Crystallographic Methods ➤ Nanoceramics ➤ Spektreninterpretationen ➤ Organische Elektrochemie	Electives Broadening of knowledge in Chemical Processing e.g. ➤ Process Design ➤ Adsorption Technology ➤ Bioprocess Engineering ➤ Chemical Engineering CAE Project Tools ➤ Membrane Separation ➤ Industriebwasserreinigung
Elective modules for both specialization areas (examples of elect):	
➤ Advanced Physical Chemistry ➤ Technology of Coatings ➤ Advanced Analytical Chemistry ➤ Technology of Polymers ➤ Chemical Technology of Materials	➤ Applied Process Development ➤ Solid State Physics ➤ Science Slam und Wissenschaftskommunikation ➤ Laser Metrology ➤ Electron Microscopy & Surface Science

