

Are you interested in chemistry, biology and technology? Study Chemical and Biological Engineering at the FAU! Our program is international, research- and practice-oriented and accredited!

Chemical and Biological Engineering is a discipline of engineering that deals with the modification of substances through chemical, physical and biological processes. Acting as a link between chemistry, biotechnology, mechanical engineering and construction, it is the task of chemical and bioengineers to implement the processes developed on a laboratory scale on a production scale.

The degree program lasts for four semesters and builds on the knowledge and skills acquired in the Bachelor's degree program. Students of the degree program learn advanced scientific methods and gain more in-depth knowledge of chemical and biological process engineering.

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The degree program allows students to choose their own areas of specialization and includes elective modules and supplementary modules, a three-week project development course, a twelve-week work placement in industry and a Master's thesis which is completed over six months. Students can choose four specializations out of the seven core subjects to match their interests and career aspirations.

A choice of elective modules on a wide range of current, research-oriented topics - of which students select four - allows students to choose their own focus areas. The catalog of elective modules is updated at the beginning of each semester. Students are also required to take four different supplementary modules.

Students can choose from the following specialization modules:

Students can choose from elective modules such as:

More information is available in the module handbook and list of elective modules. 120 ECTS credits are required to successfully complete the Master's degree program.

It is possible to set an individual focus by choosing specialization modules and elective modules or get a broad education in the most important areas of chemical and biological engineering.

Master of Science (MSc) is an internationally recognized academic degree and a professional qualification. The Master's degree program in Chemical and Biological Engineering qualifies graduates for doctoral studies and for a career in various fields:

A semester at a foreign university is an important experience. It can be integrated into your curriculum and does not necessarily have to lead to an extension of the course duration, as flexible recognition of the achievements is possible. You can also take leave for a semester abroad. As part of ERASMUS (mobility within Europe), you can spend a semester at one of the partner universities of the CBI department. Alternatively or additionally, you can make use of partnerships established by the Faculty of Engineering or FAU, for example to study at a university in Asia.

15.07.

15.01.

A subject-specific degree is a Bachelor's degree completed according to the relevant examination regulations or an equivalent degree that leads to a qualification equivalent to the Bachelor's degree in Chemical and Biological Engineering completed according to the relevant examination

regulations. Applicants with a degree that differs from the degree specified in sentence 1 but is a related subject will only be admitted to the Master's degree program after passing an oral admission examination, see Link zur FPO

Evidence of proficiency in German and English language equivalent to level B2 of the Common European Framework of Reference is required.

Applying for a Master's degree

program: <https://www.fau.eu/education/application-and-enrolment/>

Our Student Advice and Career Service (IBZ) is the central point of contact for all questions about studying and starting a degree programme. Our Student Service Centres and subject advisors support you in planning your studies.

Degree: Master of Science

Duration of studies in semester: 4

Start of degree program: Summer semester, Winter semester

Study location: Erlangen

Number of students: 150-250

Subject group: Engineering sciences

Special ways to study: International degree program, Part-time degree program

Teaching language: German and English

Admission Requirements: Qualification assessment

Admission requirements (first semester): Qualification assessment

Application deadline winter semester: 15.07.

Application deadline summer semester: 15.01.

Content-related admission requirements: A subject-specific degree is a

Bachelor's degree completed according to the relevant examination

regulations or an equivalent degree that leads to a qualification

equivalent to the Bachelor's degree in Chemical and Biological

Engineering completed according to the relevant examination regulations.

Applicants with a degree that differs from the degree specified in

sentence 1 but is a related subject will only be admitted to the Master's degree program after passing an oral admission examination, see Link zur FPO

General language skills: Evidence of proficiency in German and English language equivalent to level B2 of the Common European Framework of Reference is required.

Details and notes: Applying for a Master's degree

program: <https://www.fau.eu/education/application-and-enrolment/>