

Applying to FAU

Beginning of degree programmes:
Winter semester – October
Summer semester – April

Programme duration:
four semesters (two years)

Application deadline:
15 July for the following winter semester
15 January for the following summer semester

Please apply online at www.fau.de/movein-en

Submit your application documents to:
FAU
Referat L 4 – Master's Office
Schlossplatz 4
91054 Erlangen
Germany

FAU services for international students

The **Student Advice and Career Service (IBZ)** will provide you with general information on studying at the University: www.fau.eu/studying/ibz.shtml

Subject advisors offer specific advice for your subject throughout your studies and organise subject orientation events: www.chemie.fau.de

The **Career Service** can provide you with information on career opportunities and applying for jobs in Germany: www.fau.eu/studying/jobs-and-work-experience.shtml

The **Central Office for International Affairs (RIA)** can provide you with detailed information on accommodation and visas: www.fau.eu/international

FAU at a glance

Founded in 1743, today Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is one of the top comprehensive research universities in Germany with 35,500 students. The University offers interdisciplinary research opportunities in a wide range of subjects, including: new materials and processes, optics and optical technologies, molecular life science and medicine, health technology, electronics, information and communication, energy, environment and climate, language – culture – region, and cohesion – transformation – innovation in law and economics.

FAU offers outstanding research conditions in an inspiring environment with access to exciting international exchange opportunities and excellent career prospects. It provides state-of-the-art scientific infrastructure as well as intensive research mentoring and support.

FAU benefits from collaborations with other renowned research institutions in Erlangen and Nuremberg including the Max Planck Institute for the Science of Light, the Helmholtz Institute Erlangen-Nürnberg for Renewable Energy and the Fraunhofer Institutes.

Department contact

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MSc Chemistry MSc Molecular Science



Degree profiles

While the Master's programme **Chemistry** offers a broad yet in-depth education reflecting the highly successful research at the Department of Chemistry and Pharmacy in Erlangen, **Molecular Science** is a Master's programme unique in Germany. FAU Erlangen-Nürnberg is the only university offering such a highly **interdisciplinary** degree programme.

Chemistry and Molecular Science are four-semester Master's programmes, consisting of three semesters of courses and one semester for a Master's thesis. As all courses and exams of both programmes are taught in English, they are suitable for international students.

Programme structure and specialisation

The advanced programme in **Chemistry** is grouped into 5 individual modules worth 15 ECTS credits each: three mandatory modules (inorganic, organic and physical chemistry), one mandatory elective and one elective module. In the mandatory elective module students can choose chemical subjects which reflect the fields of the chemistry research at FAU (theory, catalysis, bio(in)organic chemistry, interfaces or materials). In the elective module students can choose courses according to their preferences. Modules including language, law or business studies courses are among the most popular.

This interdisciplinary programme **Molecular Science** offers specialisation in one of two fields: molecular life science with a focus on drug discovery and medicinal chemistry or molecular nano science with a focus on materials chemistry and devices. In addition to the mandatory (specialisation) module, students can choose from a broad range of courses offered at the Departments of Chemistry and Pharmacy, Biology, and Materials Science (for both compulsory and optional elective modules). In both programmes a six-month Master's thesis (30 credits) allows students to develop a deeper understanding of a specific scientific topic.



Core skills

Profound skills in all theoretical and practical aspects of chemistry, i.e. inorganic, organic, physical, and theoretical chemistry, are obligatory. Additional expertise in biochemistry, medicinal chemistry, forensics, catalysis and material sciences is taught in the elective part of the syllabus in the **Molecular Science** programme, while in **Chemistry** students can focus on various fields of chemistry research pursued at FAU. During the six months of Master's thesis work, students acquire all necessary skills to plan and successfully carry out an independent research project.

Career prospects

Successful graduates of the MSc programmes Chemistry and Molecular science may enter any doctoral programme in Chemistry, Materials Science, Life Sciences and other related disciplines. Graduates can also pursue a career in the chemical and pharmaceutical industry including food supervision or forensics for Molecular Science graduates. Further opportunities are found in consulting, marketing and environmental protection.

Admission requirements

Successful applicants for the MSc programmes Chemistry or Molecular Science have a first class honours BSc degree in chemistry or other natural sciences with a strong theoretical and practical background in chemical sciences. The required English language level is 'Vantage or upper intermediate' level (CEFR) or an equivalent score in another internationally recognised test.

Orientation

The Master's programmes are targeted towards all graduates from schools officially recognised by German authorities. Applicants with a BSc in chemistry, or biochemistry for Molecular Science, or other BSc programmes with a strong focus on chemistry are ideally suited for the Chemistry or Molecular Science programme,