

# Medicinal Chemistry and Chemical Biology

Constructor University Bremen  
Bachelor of Science



## Program

### A unique program within the German academic landscape

The Medicinal Chemistry and Chemical Biology (MCCB) program at Constructor University is designed to meet the demands of the global pharmaceutical industry, providing students with the education and ambition necessary to contribute to innovative drug development. Key aspects of the program include:

1. **Holistic Approach:** The MCCB program adopts a comprehensive approach by focusing not only on medicinal chemistry but also emphasizing chemical biology. This dual emphasis enables students to understand the drug-body interaction from both molecular and physiological perspectives.
2. **Innovative Drug Development:** By placing students at the forefront of drug development efforts, the program equips them with a fundamental understanding of the intricate processes involved in drug-body interactions. This broader approach fosters innovative opportunities for treating diseases beyond traditional medicinal chemistry approaches.
3. **Unique Program in Germany:** The MCCB program stands out within the German academic landscape due to its unique combination of medicinal chemistry and chemical biology. This distinctiveness addresses the evolving needs of the pharmaceutical industry and prepares students for a high-growth sector.

Overall, the MCCB program at Constructor University aims to produce well-trained scientists who are not only proficient in medicinal chemistry but also have a deep understanding of the associated cellular pathways through chemical biology. This approach aligns with the dynamic and evolving landscape of the pharmaceutical industry, providing students with the knowledge and skills needed to drive advancements in drug development.

### Key facts

**Place:** Constructor University, Bremen, Germany

**Tuition:** 20.000€ per academic year (two semesters) +8.500€ on-campus room and board (single room, shared bathroom, full meal plan)

**Fall intake 2024:** Apply by June 1 (global) and July 15 (for applicants who do not need a visa). Start last week of August (orientation week), first week of September (classes)

**Scholarships:** All students are considered for an academic achievement scholarship based on their school grade point average (GPA). EU students are eligible for a minimum guaranteed scholarship of 4.000€.

**Duration:** 3 years full-time

**Financing options:** Each admitted candidate will receive an individual financial package.

## Career

### Career perspectives

The MCCB program at Constructor University prepares students for a diverse range of career paths and opportunities, leveraging the unique combination of medicinal chemistry and chemical biology. Graduates of the program are well-equipped with a deep understanding of chemical-molecular processes, opening doors to various avenues:

1. **Graduate Education:** The MCCB program provides a solid foundation for further education,

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with many graduates pursuing advanced degrees in biochemistry, medicinal chemistry, or organic chemistry.

2. **Scientific Careers:** Graduates can enter entry-level positions in the chemical, pharmaceutical, biotechnology, or food industries. These roles involve applying their knowledge to scientific research and development.
3. **Education:** The program also prepares students for careers in education, including roles in elementary or high school teaching, where they can share their expertise in chemistry and biology.
4. **Regulatory Affairs:** Opportunities exist in regulatory affairs, including positions in analytical food testing laboratories and quality management, where graduates play a crucial role in ensuring compliance with regulations.
5. **Legal Counsel:** The MCCB program equips students for careers in legal counsel, such as becoming patent attorneys or working in licensing roles, where a deep understanding of chemical processes is essential.
6. **Start-ups:** Graduates may choose entrepreneurial paths, contributing to the growth of start-ups and bringing their critical, goal-oriented skills to new ventures.

The mandatory MCCB summer internship, often within the industrial research sector, provides valuable professional growth experiences, aiding students in making informed decisions about their careers. The Constructor University Career Services Center (CSC) and the Alumni Office offer crucial support, providing training and coaching in various aspects of career development, including CV creation, interview preparation, and effective presenting. The Alumni Office facilitates the establishment of a global network, offering ongoing support for exploring job options in academia, industry, and beyond. Overall, the MCCB program is designed to empower graduates with a versatile skill set, enabling them to thrive in diverse professional environments.

## Application

### Undergraduate application information

**Here** you can find out about deadlines, the application process and requirements to apply for your Bachelor's program at Constructor University.

### Financing

Investing in education is a significant commitment to your future, and at Constructor University, we are dedicated to transforming it into an affordable reality for students worldwide. To achieve this, we provide personalized financing options tailored to help cover tuition fees. These packages may include various forms of financial assistance, such as scholarships, grants, and tuition deferrals. The deferred tuition fees are only repaid once you have successfully entered the job market, allowing you to concentrate fully on your studies without immediate financial burden. We firmly believe that a Constructor University education serves as an ideal foundation for your future career, and we are delighted to invest in your success.

Biologie

Chemie