

BIOENGINEERING (M.ENG.)

<https://ceps.unh.edu/chemical-engineering-bioengineering/program/meng/bioengineering>

Description

Earning a master's degree can be the key to unlocking your career potential or entering the world of entrepreneurship. In fact, earning an advanced degree can translate into better career growth prospects and higher annual salaries of up to \$15,000 compared to those with an undergraduate degree alone. The Bioengineering (BioE) graduate program at UNH provides you with advanced training and experience in one of the many areas, including computational bioengineering, biochemical and biomedical engineering, electrochemical methods, advanced materials, and microfluidics. The master's degree program concludes with an engineering project which may be completed with an industrial sponsor.

Admission Requirements

An applicant to the Master of Engineering program will have completed a baccalaureate degree in engineering or a related field. Students with good undergraduate records in the science fields may be admitted provided they learn specific math and engineering skills that are aimed at successful completion of the Master of Engineering program requirements. Applicants must submit current scores (within five years) from the general test of the Graduate Record Examination. International students are required to submit TOEFL test scores. IELTS scores are accepted on a case-by-case basis, and students must have a minimum score of 6.5.

Requirements

Degree Requirements

A minimum of **30 credits** are required as follows:

Code	Title	Credits
Required Courses		
CHBE 900	Seminar ¹	1
CHBE 860	Principles of Bioengineering	3
Electives		
Select two additional CHBE Courses ²		6-8
Select one Math/Data Science course ²		3-4
Select one Life Science course ²		3-5
Select additional Electives ^{2,3}		8-13

¹ Students should register for CHBE 900 for 2 credits in their first two semesters and CHBE 900 for 0 credits each additional semester until their degree is granted.

² Can be made up of electives offered by the CHBE department, the College of Engineering and Physical Sciences or the College of Life Sciences and Agriculture. In addition, courses taken within the UNH School of Law, College of Liberal Arts, and the Paul College of Business and Economics can apply with approval. Electives must be assessed with a letter grade and cannot be pass/fail. At least one of the electives must be at the 900-level. Students who do not register for CHBE 898 must take at least one elective course that requires completing a scholar report, paper, or essay.

³ The elective course credits may include CHBE 898 Master's Project of up to 6 credits.

Student Learning Outcomes

Program Learning Outcomes

- use appropriate bioengineering techniques, tools and methods to solve broadly defined engineering problems.
- demonstrate oral and written communication skills.