

BIOMEDICAL ENGINEERING BS/MS

Degree Requirements

The following requirements are in addition to, or further elaborate upon, those requirements outlined in The Graduate School Policy Guide (<https://catalogs.northwestern.edu/tgs/academic-policies-procedures/>).

BS/MS

BS/MS Degree without Thesis

- These requirements are the same as “MS without Thesis”. BS/MS students who have taken the BME 304/305/306 sequence will take two advanced life science courses instead of the two advanced systems physiology courses.

BS/MS Degree with Thesis

- These requirements are the same as the “MS with Thesis” unless the student participates in an accelerated, thesis-based program for outstanding undergraduates who have established research relationships with BME faculty members as outlined below. BS/MS students will take two advanced life science courses instead of the two advanced systems physiology courses.

Accelerated BS/MS Degree with Thesis

Admission Requirements (no exceptions):

- NU BME undergraduate
- 3.5 grade point average or higher in undergraduate studies
- Have conducted at least two quarters of undergraduate research (399 or paid research) with chosen advisor
- Approval by Director of the MS Program

Total Units Required for the Master's Degree: 9

Course	Title
Degree Requirements	
Graduate Seminar (3 quarters - 0 units):	
BMD_ENG 512-0	Graduate Research Seminar in Biomedical Engineering
Research for Credit (3 units):	
BMD_ENG 499-0	Projects
Quantitative science and engineering courses from approved list or by permission (2 units)	
Advanced statistics course from approved list or by permission (1 unit)	
Engineering, math, and sciences courses (2 units) ¹	
Restricted electives (1 unit) ²	

¹ Courses in the following areas may not count: research for credit (BMD_ENG 499-0 Projects), global health (except BMD_ENG 380-0 Medical Devices, Disease & Global Health), business, design, NUvention (except for 1 quarter of NUvention Medical), seminar, or survey courses.

² Students may take design, global health, and business classes to fulfill this category. Students taking a basic statistics course may count it towards this category. Students may opt to take additional math/science/engineering courses to fulfill this category as well.

Other Requirements

- Signed copy of MS Mentor/Mentee Agreement (https://www.mccormick.northwestern.edu/biomedical/documents/graduate/mentor_mentee-agreement_v2.pdf)
- Examinations: defend Master's thesis
- Research/Projects: see Master's thesis
- Master's Thesis: required