

# 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-Only without Thesis”. BS/MS students 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-Only 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):

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

<sup>1</sup> 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.

<sup>2</sup> 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

- Examinations: defend Master’s thesis
- Research/Projects: see Master’s thesis
- Master’s Thesis: required