

BioE Degree Requirements Worksheet

The MEng Degree requires at least 25 total units of credit, comprehensive exam and capstone report/presentation. Those credits are allocated across three essential areas addressed below:

1. **BIOE Core Courses – 12 of 25 total units**

- a. At least 12 units of strictly 200-level graduate units in the major
- b. Select one [track of coursework](#) in the fields of, **Bioinformatics and Computational Biology, Biomedical Engineering Design, Biomedical Imaging, Biomaterials and Devices, General Bioengineering and Entrepreneurship, Mechanobiology, and Synthetic Biology**)
- c. All 200-level BIOE 2XX courses must be taken for a letter-grade

MSE Core Courses		
Fall	Spring	Total Units
Total Fall Units:	Total Spring Units:	
Total BioE Core Units:		/12

2. **Leadership Courses – must be 200 level**

- a. At least 8 units
- b. 2 Semester Unit – Capstone Integration (taken S/U)—[Engr 295](#)
- c. 3 Semester Units – Engineering Leadership I (taken for a letter grade)—[Engin 270A-C](#)
- d. 3 Semester Units – Engineering Leadership II (taken for a letter grade)—[Engin 270D, 270G, 270H, 270I, 270J, 270K](#)

Leadership Courses		
Fall	Spring	Total Units
Total Fall Units:	Total Spring Units:	
Total Non-Core Units:		/8

3. **Capstone Experience:**

- a. Students must be registered for Capstone project units 296M A-B

Capstone Courses		
Fall	Spring	Total Units
296M A	296M B	
Total Fall Units: 2	Total Spring Units: 3	

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Total Non-Core Units:	/5
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4. **Capstone Report**

The report is a Capstone team project, and a deliverable for the E296MB capstone course. A draft is also a deliverable for the E295 communications course, to provide editing support.

5. **Comprehensive Exam**

The **Bioengineering** Final Capstone presentation will take place late in the Spring semester and will consist of a 20 minute minimum presentation on the Capstone project. The presentation will be assessed by a BioE faculty member and an allied field member (for example, if a project is in ME, the second assessor must be in ME). Students will be asked probing questions during the presentation and answers given will determine a pass. If a student fails the presentation requirement, they will be given the option to give the presentation again the following Fall semester. Failure to pass the exam on this third attempt will constitute a failure of the comprehensive exam requirement for the MEng degree.

Leadership:

The Fung Institute will administer a written exam for the leadership portion of the curriculum during late November, during the exam periods for the required MEng leadership course, E270H/Accounting & Finance.