The Biomedical Engineering Minor (BME) program requires a total of seven subjects selected from a series of categories as outlined below.

**Programming and Computational Modeling Core**
- 6.100A Introduction to Computer Science 6
- 6.100B Introduction to Computational Thinking and Data Science 6

**Mathematics Core**
*Select two of the following options:*  
1. **Option A**
   - 18.03 Differential Equations

2. **Option B**
   - 18.06 Linear Algebra

3. **Option C**
   *Select one of the following:*  
   - 1.010 Probability and Causal Inference
   - 6.3700 Introduction to Probability
   - 9.07 Statistics for Brain and Cognitive Science

**Human Physiology Core**
*Select one of the following:*  
- 6.4820J Quantitative and Clinical Physiology
- 7.20J Human Physiology
- 9.01 Introduction to Neuroscience

**Biomedical Engineering and Applications**
*Select three of the following:*  
1. **9.26[J]** Principles and Applications of Genetic Engineering for Biotechnology and Neuroscience  
2. **9.35** Perception
3. **9.40** Introduction to Neural Computation
4. **10.424** Pharmaceutical Engineering
5. **10.443** Future Medicine: Drug Delivery, Therapeutics, and Diagnostics
6. **10.495** Molecular Design and Bioprocess Development of Immunotherapies
7. **20.310[J]** Molecular, Cellular, and Tissue Biomechanics
8. **20.345** Bioinstrumentation Project Lab
9. **20.352** Principles of Neuroengineering
11. **20.395[J]** Principles and Practice of Assistive Technology
12. **20.4530[J]** Principles and Practice of Assistive Technology
14. **7.37[J]** Molecular and Engineering Aspects of Biotechnology
15. **9.17** Systems Neuroscience Laboratory
16. **9.24** Disorders and Diseases of the Nervous System

**Total Units: 78-84**

A maximum of four subjects taken for the biomedical engineering minor can also count toward a major or another minor.

1. **Contact minor advisor for additional 6–12 unit subjects that satisfy requirement.**
2. **Subject has prerequisites that are outside of the program.**
3. **At least one of the subjects must be taken outside the student’s major.**
   See the BME Minor website (https://be.mit.edu/academic-programs/current-undergraduate/minor-programs/minor-program-biomedical-engineering) for potential substitutions.
4. **Approved biomedical engineering UROPs with sufficient medical focus carried out by students with junior or senior standing with prior approval may be substituted for up to 12 units.**

Students should consult with their departmental BME minor advisor, preferably in sophomore year and no later than Add Date of spring term junior year, to choose a course of study, which must be approved in advance by the BME minor advisor. For the list of BME minor advisors and other information, please visit the Biological Engineering website (http://be.mit.edu) or contact the BE Academic Office, Room 16-267, 617-253-1712.