

# Tufts University

## Biotechnology Second Major (Science Track)

Student:

ID#:

Core Courses (5)			
Course	Semester	Grade	Double counted?
BIO 13 or ES 11			
BIO 41			
BME 162			
BIO 105			
BIO 152 or BIO 171 or CHEM 171			
Laboratory Course (1)			
Course	Semester	Grade	Double counted?
CHBE 163 or 168			
BME 175			
BIO 50			
Elective Courses (4)			
Course	Semester	Grade	Double counted?

**Four electives from:**

- BME 185 or ChBE 185** Drug Product Formulation
- BIO 104** Immunology
- BIO 106** Microbiology
- BME 143** Biological Systems Analysis
- CHBE 159** Synthetic Biology
- BIO 132** Biostatistics
- BME 165** Drug Delivery
- CHBE 160** Biochemical Engineering
- CHBE 161** Protein Purification
- BME 153 or CHBE 164** Biomaterials and Regenerative Medicine
- BME 154** Tissue Engineering and Regenerative Medicine
- CHBE 166** Principles of Cell and Microbe Cultivation
- CHBE 167** Metabolic and Cellular Engineering
- CHEM 135** Biophysical Chemistry

*Please note:*

- All courses for the Biotechnology Second Major (Science Track) must be taken for a letter grade (i.e. courses cannot be taken Pass/Fail).
- No more than half the courses used to fulfill the requirements for one concentration may be used to satisfy the requirements for a second major.
- Up to six SHUs of research may be counted toward electives.
- Only courses listed above may be applied. Substitutions are not possible.

**Advisor Signature:** \_\_\_\_\_

**Dept. Chair Signature:** \_\_\_\_\_