

BIOMEDICAL ENGINEERING PROGRAM REQUIREMENTS

Lower Division Required Courses	UNITS
Mathematics 21A-21B-21C-21D .....	16
Mathematics 22A-22B .....	6
Physics 9A-9B-9C .....	15
Chemistry 2A-2B-2C, 8A-8B or 118A-118B .....	21
Engineering 6, 17 .....	8
University Writing Program 1, or English 3, or Comparative Literature 1, 2, 3, or 4, or Native American Studies 5 ..	4
Communication 1 .....	4
Biological Sciences 2A .....	4
Biomedical Engineering 1 .....	1
Biomedical Engineering 20 .....	4
General Education electives .....	8
Minimum Lower Division Units .....	91

UPPER DIVISION REQUIRED COURSES

Engineering 100 or Electrical and Computer Engineering 100 .....	3
Engineering 105, 190 .....	7
Neurobiology Physiology Behavior 101 .....	5
Biomedical Engineering 105, 106, 107, 108, 109, 110A-110B, 111 .....	30
Sciences electives .....	8
To be chosen according to specialization. Any graded upper division course in the Biological Sciences, Chemistry or Physics including Biological Sciences 2B, 2C, Biomedical Engineering 161A, 161S, 161L and Physics 9D, excluding courses for social science credit.	
Engineering electives .....	20
Any graded upper division Biomedical Engineering course (except Biomedical Engineering 161A, 161S, 161L) Engineering 35, 45, 102, 103, 104, 106; Electrical and Computer Engineering 110A, 110B, 106, 114, 118, 130A, 130B, 140A, 140B, 150A, 150B, 151, 157A, 157B; Applied Science Engineering 108A, 108B, 161, 165, 166, 167, 169, 170, 171, 172; Biological Systems Engineering 128; Chemical Engineering 160, 161A, 161B, 161L, 170; Materials Science and Engineering 147, 160, 162, 162L, 164, 172, 172L, 174, 174L, 181, 182; Mechanical Engineering 150AB, 152, 154, 165	
General Education electives .....	16
Minimum Upper Division Units .....	89
Minimum Units Required for Major	180

Additional upper division elective policies:

- 2 units from CHE118AB may be applied toward Sciences elective if 118AB are also used to satisfy lower division subject credit.
- 2 units from ECE100 maybe applied toward Engineering elective if ECE100 is taken to satisfy upper division subject credit.
- 4 units of BIM199 may be counted toward Engineering or Sciences elective with approval of BME undergraduate committee.
- Sciences electives and Engineering Electives are to be selected in consultation with a staff or faculty adviser.