

**BIOLOGICAL ENGINEERING
PROGRAM PROGRESS FORM**
(Applies to students matriculating in the Fall Semester of 2018 or later)

Name: _____ **Last Revised:** _____
E-mail: _____ **Empl ID:** _____ **Advisor:** _____
Minor: _____ **Antic. Grad Date:** _____
Focus: _____ **Double Major:** _____

Course Title and Required Credits	Course	Grade	Credit Hours	Total Credits
1. Mathematics: 16 credits				
Calculus for Engineers*	MATH 1910	_____	_____	
Calculus for Engineers*	MATH 1920	_____	_____	
Engineering Math* (Diff. Equations)	MATH 2930	_____	_____	
Engineering Math* (Linear Algebra)	MATH 2940	_____	_____	0
*Must earn at least a C- or repeat course				
2. Physics: 8 credits				
Mechanics	PHYS 1112	_____	_____	
Heat/Electromagnetism	PHYS 2213	_____	_____	0
3. Chemistry: 7 credits				
General Chemistry	CHEM 2070 or 2090	_____	_____	
Organic Chemistry	CHEM 1570, 3530 or 3570	_____	_____	0
4. Biological Sciences: 15 credits				
Introductory Biological Science		_____	_____	
Introductory Biological Science		_____	_____	
Introductory Bio Lab		_____	_____	
Biochemistry		_____	_____	
BIOMG 3300 (4) or 3330 (4) or 3310+3320 (5) or 3350 (4)		_____	_____	
Advanced Biol. Sci. Elective (to complete 15 cr)		_____	_____	0
5. First Year Writing Seminars (FWS): 6 credits				
		_____	_____	
		_____	_____	0
6. Liberal Studies: 18 credits (Minimum of six courses in at least three of the seven groups; at least two of the six courses at or above 2000 level.)				
(1) Cultural Analysis (CA)		_____	_____	
(2) Historical Analysis (HA)		_____	_____	
(3) Literature and the Arts (LA)		_____	_____	
(4) Knowledge, Cognition and Moral Reasoning (KCM)		_____	_____	
(5) Social & Behavior and Analysis (SBA)		_____	_____	
(6) Foreign Languages (not literature) (FL)		_____	_____	
(7) Communications in Engineering (CE)		_____	_____	
_____		_____	_____	
_____		_____	_____	
_____		_____	_____	
_____		_____	_____	
_____		_____	_____	
_____		_____	_____	

Name:

7. **Computer Programming:** 4 credits

Intro to Computer Programming CS 1112

_____ 0

8. **Engineering Distribution and Field Courses:** 48 credits

(a) *Required Courses*

Mechanics of Solids ENGRD 2020^a
Engineering Statistics and Probability CEE 3040 or ENGRD 2700

(b) *Required Biological Engineering Core Courses*

Intro to Engineering ENGRI 1xxx
Thermodynamics BEE 2220, ENGRD 2210,
CHEME 3130 or MSE 3030

Engineering Distribution BEE 2600 or BEE 2510^a

Bio-Fluid Mechanics BEE 3310

Design and Analysis of Biomaterials BEE 3400

Heat and Mass Transfer in BioEng BEE 3500

Molecular and Cellular BioEng BEE 3600

Bioinstrumentation BEE 4500

(c) *Biological Engineering Focus Area Electives*

15 or more credits of courses from 1 or more of the 7 focus areas to complete the 48 engineering credits

Focus Area elective 1

Focus Area elective 2

Focus Area elective 3

Focus Area elective 4

Focus Area elective 5

_____ 0

9. **Approved Electives:** 6 credits

_____ 0

GRAND Total Credits:

_____ 0
(Minimum 128)

- _____ Technical Writing Course
- _____ Capstone Design Course
- _____ EHS Online Lab Safety Training (2555)
- _____ BEE 1200 (CALs freshman)
- _____ ENGRG 1050 (ENG freshman)
- _____ PE
- _____ PE

^aEngineering distribution requirement is satisfied by ENGRD 2020 and ENGRD 2600 or ENGRD 2510

Only 1 D allowed in major (categories 2-4, 7 and 8).

If you receive more than 1 D, you will have to take one of the courses over.

Courses not needed for graduation

Notes