BIOLOGICAL ENGINEERING
PROGRAM PROGRESS FORM
(Applies to students matriculating in the Fall Semester of 2016 or later;
for rules see the notes section on respective pages.)

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

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
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. **Written Expression** (First Year Writing Seminars): 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)

Course Title	Course #	Category	Grade	Credits

0

Name: **0**

7. **Computer Programming:** 4 credits

Intro to Computer Programming	CS 1112 (1110 or 1114) (prefer CS 1112 with MATLAB)			0

8. **Engineering Distribution and Field Courses:** 46 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

Choose 5 or more courses from 1 or more of the 7 focus areas to complete the 46 engineering credits

Focus Area elective 1				
Focus Area elective 2				
Focus Area elective 3				
Focus Area elective 4				
Focus Area elective 5				
				0

9. **Advisor Approved Electives:** 6 credits

				0

GRAND Total Credits: 0

(Minimum 126)

_____ Technical Writing Course _____

_____ Capstone Design Course _____

_____ Engineering Laboratory Course _____

_____ PE

_____ PE _____ EHS Lab Safety Course

[a]Engineering distribution requirement is satisfied by ENGRD 2020 and ENGRD 2600 or ENGRD 2510

Only 1 D allowed in categories 1-4, 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**