Plan of Study for the Biomedical Engineering AB Concentration

Effective for Students Declaring the Concentration after July 1, 2016

NAME: _____ CLASS: _____

EMAIL: _____ DATE: _____

This Plan of Study Form is for a (*Circle One*): DECLARATION REVISION

REQUIRED COURSES (Circle or fill-in for courses planned in each category.)	**Semester** (FA/SP Year)
Mathematics (2-4 courses)	
Begin according to placement:	_____
Math 1a – Introduction to Calculus I	
Math 1b – Calculus, Series, and Differential Equations	_____
Applied Mathematics 21a – Mathematical Methods in the Sciences I (or Mathematics 21a or 23a)	_____
Applied Mathematics 21b – Mathematical Methods in the Sciences II (or Mathematics 21b or 23b)	_____
Probability & Statistics *(1 course)*	
AM 101 – Statistical Inference for Scientists & Engineers (or Statistics 111 – Introduction to Theoretical Statistics)	_____
Physics (*2 courses)*	
AP 50a – Physics as a Foundation for Sci. & Eng. Part I (or PS 2, PS 12a, Physics 15a, or Physics 16)	_____
AP 50b – Physics as a Foundation for Sci. & Eng. Part II (or PS 3, PS 12b, or Physics 15b)	_____
Life Sciences/Chemistry (*3 courses)*	
Life Sciences 1a – Chemistry, Molecular Biology, and Cell Biology (or Life & Physical Sciences A – Foundational Chemistry and Biology)	_____
Life Sciences 1b – Genetics, Genomics, and Evolution	_____
Chemistry 17 – Principles of Organic Chemistry (or Chemistry 20 – Organic Chemistry)	_____
Sophomore Forum	
Required, non-credit.	_____
Biomedical Engineering Core (*5 courses*)	
ES 53 – Quantitative Physiology	_____
BE 110 – Physiological Systems	_____
ES 123 – Fluid Mechanics	
ES 181 – Engineering Thermodynamics (or MCB 199 – Statistical Thermodynamics and Quantitative Biology)	_____
Select one from: BE 121 – Cellular Engineering BE 125 – Tissue Engineering BE 160 – Chemical Kinetics BE 191 – Biomaterials ES 227 – Medical Device Design	_____

REQUIRED COURSES (Circle or fill-in for courses planned in each category.)	**Semester** (FA/SP Year)
Approved Elective (*1 course)* BE 121, BE 125, BE 130, BE 160, BE 191, Chem 27, Chem 30, Chem 160, ES 120, ES 221, ES 227, ES 228, MCB 52, MCB 54, MCB 80, OEB 53, CS50, or 100- or 200-level engineering courses by prior approval (ES 91r and BE 91r cannot count as electives).	_____
Independent Project BE91r or ES 91r or ES 100hf or summer project resulting in a significant written report	_____

For courses that are co-listed in another department, students must enroll in the Engineering Sciences offering.

Required Signatures:

_____ _____

Student Date

_____ _____

Assistant/Director of Undergraduate Studies (BME) Date