

Bachelor of Engineering Study Plan - Entering Fall 2025 and later

Name: _____ ID: _____ E-mail: _____ Class: _____

Major: **Biomedical Engineering**

Instructions Please print or type. The purpose of this study plan is to track your progress to degree completion by outlining the specific courses required for the program and when you expect to take them. Please indicate the term (semester) when you plan to take or have taken each course (e.g., 25F, 26S, 26F, etc.). If a choice of course is given for the requirement, circle the appropriate course number. For electives, fill in the course number. Courses completed via AP/IB or transfer credit should be marked as AP, IB, or TR respectively. Revise this plan as needed. An additional study plan will be required if you wish to pursue a minor or a second degree.

Term	Course	Credits	Grade	Term	Course	Credits	Grade
TERM I				TERM III			
I	CH 115 - General Chemistry I	3.0	_____	III	BIO 181 - Biology and Biotechnology OR	3.0	_____
I	CH 117 - General Chemistry Lab I	1.0	_____		BME 306 - Introduction to Biomedical Engineering	3.0	_____
I	ENGR 111 - Intro to Engineering Design & Systems Thinking	4.0	_____	III	ENGR 211 - Statics & Introduction to Engineering Mechanics	4.0	_____
I	ENGR 116 - Introduction to Programming	3.0	_____	III	ENGR 245 - Circuits and Systems	3.0	_____
I	HASS 103 - Writing and Communications Colloquium	3.0	_____	III	MA 221 - Differential Equations	4.0	_____
I	MA 121 - Differential Calculus	2.0	_____	III	PEP 112 - Electricity and Magnetism	3.0	_____
I	MA 122 - Integral Calculus	2.0	_____				
I	PRV 101 - First Year Experience	1.0	_____				
TERM II				TERM IV			
II	CH 116 - General Chemistry II	3.0	_____	IV	BIO 181 - Biology and Biotechnology OR	3.0	_____
II	CH 118 - General Chemistry Laboratory II	1.0	_____		BME 306 - Introduction to Biomedical Engineering	3.0	_____
II	ENGR 122 - Field Sustainable Systems with Sensors	2.0	_____	IV	ENGR 212 - Design of Dynamical Systems	4.0	_____
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____	IV	ENGR 234 - Thermodynamics	3.0	_____
II	MA 125 - Vectors and Matrices	2.0	_____	IV	ENGR 241 - Probability & Statistics with Data Science Apps	4.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____	IV	PRV 20X - Frontiers of Technology ⁴	1.0	_____
II	MGT 103 - Introduction to Entrepreneurial Thinking	2.0	_____				
II	PEP 111 - Mechanics	3.0	_____				

Student Signature: _____ Date: _____ Original _____ Revision _____

Academic Advisor Signature: _____ Date: _____ 2nd Degree _____

Name: _____ ID: _____ E-mail: _____ Class: _____

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Term	Course	Credits	Grade	Term	Course	Credits	Grade
TERM V				TERM VII			
V	BIO 290 - Cell and Molecular Biology AND BIO 292 - Cell and Molecular Biology Lab	3.0 1.0	_____ _____	VII	BME 423 - Engineering Design VII	3.0	_____
V	BME 312 - Biomaterials in Medical Device Design AND BME 313 - Biomaterials in Medical Device Laboratory OR General Elective ² : _____	3.0 1.0 3.0	_____ _____ _____	VII	BME 502 - Physiology for Engineers I	3.0	_____
V	BME 506 - Biomechanics	3.0	_____	VII	BME 512 - Engineering Physiology Lab 1	1.0	_____
V	Humanities ³ : _____	3.0	_____	VII	Humanities: _____	3.0	_____
V	MA 225 - Infinite Series	2.0	_____	VII	IDE 401 - Senior Innovation-II: Value Proposition	1.0	_____
V	MA 226 - Multivariable Calculus II	2.0	_____	VII	PRV 20X - Frontiers of Technology	1.0	_____
TERM VI				VII	Technical Elective 400 Level ¹ : _____	3.0	_____
VI	BME 312 - Biomaterials in Medical Device Design AND BME 313 - Biomaterials in Medical Device Laboratory OR General Elective: _____	3.0 1.0 3.0	_____ _____ _____	TERM VIII			
VI	BME 322 - Engineering Design VI	2.0	_____	VIII	BME 424 - Engineering Design VIII	3.0	_____
VI	BME 343 - Biotransport	3.0	_____	VIII	BME 465 - Principles of Biomedical Imaging	3.0	_____
VI	BME 460 - Biomedical Digital Signal Processing Laboratory	2.0	_____	VIII	BME 503 - Physiology for Engineers II	3.0	_____
VI	General Elective: _____	3.0	_____	VIII	BME 513 - Engineering Physiology Lab 2	1.0	_____
VI	IDE 399 - Engineering Economics & Project Management	2.0	_____	VIII	Humanities: _____	3.0	_____
VI	PRV 20X - Frontiers of Technology	1.0	_____	VIII	IDE 402 - Senior Innovation III: Venture Planning and Pitch	1.0	_____
				VIII	Technical Elective 400 Level: _____	3.0	_____

NOTES:

- Technical Electives can be selected from available 400-599 courses offered by the BME program. Courses listed in the Areas of Concentration are common choices. Additional courses can be selected with the approval of the student's advisor.
- General Electives can be selected from available courses offered by programs in SES, SSE, SOB and HASS (including BME courses). Approval from the student's advisor and the course instructor may be required.
- Humanities: Please see [Humanities Requirements](#) for specific requirements.
- SUCCESS Core Curriculum:** Students must complete requirements including PRV 101, and three (3) courses from PRV 201, PRV 202, PRV 203, PRV 204, PRV 205.

ADDITIONAL COURSES - For medical school only; not required for the B.E.

_____	PEP 221 - Physics I Lab	1.0	_____
_____	PEP 222 - Physics II Lab	1.0	_____
_____	CH 243 - Organic Chemistry I	3.0	_____
_____	CH 245 - Organic Chemistry I Laboratory	1.0	_____
_____	CH 244 - Organic Chemistry II	3.0	_____
_____	CH 246 - Organic Chemistry II Laboratory	1.0	_____
_____	CH 580 - Biochemistry I - Cellular Metabolism and Regulation	3.0	_____

Student Signature: _____ Date: _____ Original _____ Revision _____

Academic Advisor Signature: _____ Date: _____ 2nd Degree _____