

Bachelor of Engineering Study Plan - Entering Fall 2025 and later

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

Major: **Engineering (Concentration in Optical 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	ENGR 245 - Circuits and Systems	3.0	_____
I	CH 117 - General Chemistry Laboratory I	1.0	_____	III	MA 221 - Differential Equations	4.0	_____
I	ENGR 111 - Intro to Engineering Design & Systems Thinking	4.0	_____	III	PEP 112 - Electricity & Magnetism	3.0	_____
I	ENGR 116 - Intro to Programming & Algorithmic Thinking	3.0	_____	III	PEP 242 - Modern Physics	3.0	_____
I	HASS 103 - Writing and Communications Colloquium	3.0	_____	III	PEP 330 - Introduction Thermal and Statistical Physics	3.0	_____
I	MA 121 - Differential Calculus	2.0	_____				
I	MA 122 - Integral Calculus	2.0	_____				
I	PRV 101 - First Year Experience	1.0	_____				
TERM II				TERM IV			
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____	IV	ENGR 211 - Statics and Introduction to Engineering Mechanics	4.0	_____
II	CH 116 - General Chemistry II	3.0	_____	IV	ENGR 212 - Design of Dynamical Systems	4.0	_____
II	CH 118 - General Chemistry Laboratory II	1.0	_____	IV	ENGR 241 - Probability & Statistics with Data Science Apps.	4.0	_____
II	ENGR 122 - Field Sustainable Systems with Sensors	2.0	_____	IV	PEP 209 - Fundamentals of Optics	3.0	_____
II	MA 125 - Vectors and Matrices	2.0	_____	IV	PRV 20X - Frontiers of Technology ⁴	1.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____				
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 _____

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Term	Course	Credits	Grade	Term	Course	Credits	Grade
TERM V				TERM VII			
V	ENGR 311 - Design with Materials	4.0	_____	VII	IDE 401 - Senior Innovation-II: Value Proposition	1.0	_____
V	PEP 308 - Geometrical Optics	3.0	_____	VII	PEP 423 - Engineering Design VII	3.0	_____
V	PEP 309 - Introductory Optics Lab	3.0	_____	VII	PEP 515 - Photonics I	3.0	_____
V	PEP 332 - Mathematical Methods for Physical Sciences	3.0	_____	VII	PEP 577 - Laser Theory and Design	3.0	_____
V	Humanities: _____	3.0	_____	VII	Technical Elective ¹ : _____	3.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____	VII	General Elective: _____	3.0	_____
TERM VI				TERM VIII			
VI	IDE 399 - Engineering Economics & Project Management	2.0	_____	VIII	IDE 402 - Senior Innovation III: Venture Planning and Pitch	1.0	_____
VI	PEP 322 - Engineering Design VI	2.0	_____	VIII	PEP 424 - Engineering Design VIII	3.0	_____
VI	PEP 509 - Intermediate Waves and Optics	3.0	_____	VIII	PEP 516 - Photonics II	3.0	_____
VI	PEP 510 - Modern Optics Laboratory	3.0	_____	VIII	Technical Elective: _____	3.0	_____
VI	General Elective ² : _____	3.0	_____	VIII	General Elective: _____	3.0	_____
VI	Humanities ³ : _____	3.0	_____	VIII	Humanities: _____	3.0	_____
VI	PRV 20X - Frontiers of Technology	1.0	_____				

ADDITIONAL COURSES

Notes:

- Technical Electives can be selected from the following courses:
 - PEP 369, PEP 501, PEP 511, PEP 542, PEP 543, PEP 553, PEP 557, PEP 570, PEP 575, PEP 578, PEP 579
- General Electives can be selected from available courses offered by programs in SES (including PEP Courses), SOB and HASS. Approval from the student's advisor and the course instructor may be required.
- Humanities: Please see [Humanities Requirements](#) for specific requirements.
- [SUCCCESS Core Curriculum](#): Students must complete requirements including PRV 101, and three (3) courses from PRV 201, PRV 202, PRV 203, PRV 204, PRV 205. (PRV 203 can be taken if BIO 181 is not used for credit; PRV 205 can be taken if PEP 369 is not used for credit.)

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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