

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability. For counseling appointments call 916.608.6510.

FIRST YEAR

Semester 1:

15-16 units

CAT.	COURSE	TITLE	GE AREA	
Req	MATH 400*	Calculus I	5	II(b)
GE	ENGWR 300	College Composition	3	II(a)
Req	CHEM 400*	General Chemistry I	5	
GE		Life Development Skills	2-3	III(b)

Semester 2:

15 units

Req	MATH 401*	Calculus II	5	
Req	PHYS 411*	Mechanics of Solids and Fluids	4	IV
GE		American Institutions	3	V(a)
GE		Humanities	3	I

* This course has a prerequisite or corequisite course.

Notes:

- See FLC [AA/AS](#) General Education requirements.
- A degree applicable elective is defined as any class with a course number between 100 and 499.
- Some English and math courses have support courses (co-requisites). See your assessment results for more details.

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this degree
GE	General Education	A course that fulfills a specific general education requirement for this degree, which can be replaced with another course that meets the same requirement
Elec	Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree



SECOND YEAR

Semester 3:

16 units

CAT.	COURSE	TITLE	GE AREA	
Req	MATH 402*	Calculus III	5	
Req	PHYS 421*	Electricity & Magnetism	4	
Req	Major Elective	See List Below	3	
GE		Physical Education Activity	1	III(a)
GE		Social Science	3	V(b)

Semester 4:

14 units

Req	MATH 420*	Differential Equations	4	
Req	PHYS 431*	Heat, Waves, Light & Modern Physics	4	
Req	Major Elective	See List Below	3	
GE		Ethnic/ Multicultural	3	VI

*This course has a prerequisite or corequisite course.

Major Elective List: A minimum of 6 units from the following:

- CISP 360*: Introduction to Structured Programming (4 units)
- ENGR 303: Introduction to Logic Design (4 units)
- ENGR 312: Engineering Graphics (3 units)
- ENGR 400*: Introduction to Electrical Circuits and Devices (3 units)
- ENGR 420*: Statics (3 units)

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