

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.

Total Units: 60-61

First Year

Semester 1

15-16 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
MATH 400 Calculus I	5	MATH 375 or MATH 372 & 373	F, S	II(b)
ENGWR 300 College Composition	3		F, S	II(a)
CHEM 400 General Chemistry I	5	MATH 120; and a college-level Chemistry course with a lab with a "C" or better or one year in high school Chemistry with a lab with a grade of "C" or better.	F, S	
Life Development Skills	2-3		F, S	III(b)

Semester 2

15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
MATH 401 Calculus II	5	MATH 400	F, S	
PHYS 411 Mechanics of Solids and Fluids	4	MATH 400	F, S	IV
American Institutions	3		F, S	V(a)
Humanities	3		F, S	I

Second Year

Semester 3

16 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
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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.

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
MATH 402 Calculus III	5	MATH 401	F, S	
PHYS 421 Electricity and Magnetism	4	MATH 401 AND PHYS 411	F, S	
Major Elective*	3		F, S	
Physical Education Activity	1		F, S	III(a)
Social Science	3		F, S	V(b)

* See List under Semester 4

Semester 4

14 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
MATH 420 Differential Equations	4	MATH 401	F, S	
PHYS 431 Heat, Waves, Light and Modern Physics	4	PHYS 411	F, S	
Major Elective	3		F, S	
Ethnic/Multicultural Studies	3		F, S	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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