

# ENGINEERING TRANSFER PROGRAM OF STUDY

---

As an Engineering major, success in your math and science courses are important. You will need to complete: calculus, physics and engineering courses-in some cases chemistry. UC and CSU schools require the completion of 60 transferable units that include English 1A, a critical thinking course, and for CSU transfer an oral communication class. Engineering 1 is an excellent class to explore your options.

Completion of all of your general education (GE) may not be mandatory.

***Working with a counselor is the best way to map out a transfer plan. We highly recommend that you make an appointment with a counselor to develop an education plan that meets your needs.***

The courses listed below are commonly required major preparation classes for this major at 4-year transfer institutions. This is not a degree, but a list of course options for transfer. **Required classes can vary**, please visit the assist website for specific CSU and UC major prep classes.

Link to ASSIST Website <http://www.assist.org/web-assist/welcome.html>

## Common Major Prep Classes:

Course Prefix	Course Name	Units
ENGR 1	Introduction to Engineering	2
ENGR 7	Programming Applications for Engineers	4
ENGR 8	Properties of Materials	4
ENGR 24	Engineering Graphics	4
ENGR 40	Statics	3
ENGR 41	Dynamics	3
ENGR 42	Mechanics of Materials	4
CHEM 50	General Chemistry I	5
or CHEM 50H	General Chemistry I - Honors	
CHEM 51	General Chemistry II	5
or CHEM 51H	General Chemistry II - Honors	
MATH 180	Calculus and Analytic Geometry	4
MATH 181	Calculus and Analytic Geometry	4
MATH 260	Linear Algebra	3
MATH 280	Calculus and Analytic Geometry	5
MATH 285	Linear Algebra and Differential Equations	5
MATH 290	Differential Equations	4-4
PHYS 4A	Engineering Physics	5
PHYS 4B	Engineering Physics	5
PHYS 4C	Engineering Physics	5

## General Education Patterns

Intersegmental General Education Transfer Curriculum ([http://www.mtsac.edu/transfer/ge\\_sheets/IGETC.pdf](http://www.mtsac.edu/transfer/ge_sheets/IGETC.pdf)) (UC/CSU)

California State University General Education ([http://www.mtsac.edu/transfer/ge\\_sheets/CSUGE.pdf](http://www.mtsac.edu/transfer/ge_sheets/CSUGE.pdf)) (CSU)