

Sacramento City College  
Suggested Course of Study for Engineering Transfer Students

**CORE ENGINEERING REQUIREMENTS**

ENGR 300	Introduction to Engineering	1
CHEM 400	General Chemistry	5
ENGR 405	Engineering Problem Solving	3
	or	
CISP 360	Introduction to Structured Programming	4
ENGR 400	Introduction to Electrical Circuits/Devices	3
MATH 400	Analytic Geometry/Calculus I	5
MATH 401	Analytic Geometry/Calculus II	5
MATH 402	Analytic Geometry/Calculus III	5
MATH 420	Differential Equations	4
PHYS 410	Mechanics of Solids and Fluids	5
PHYS 420	Electricity and Magnetism	5
<b>TOTAL UNITS</b>		<b>41 or 42</b>

Field Specific and Elective courses

(Required at most universities; check specific university requirements):

**CIVIL ENGINEERING REQUIREMENTS:**

ENGR 312	Engineering Graphics	3
ENGR 422	Engineering Mechanics, Statics	3
ENGR 412	Properties of Materials	3
ENGR 310	Engineering Survey Measurements	4
MATH 410	Linear Algebra	3
PHYS 430	Heat, Waves, Light and Modern Physics	5
	or	
CHEM 401	General Chemistry	5
Civil Engineering Units		21
<b>Grand Total (Core units plus Civil Engineering units)</b>		<b>62 or 63</b>

**ELECTRICAL/COMPUTER ENGINEERING REQUIREMENTS:**

ENGR 422	Engineering Mechanics, Statics	3
ENGR 412	Properties of Materials	3
MATH 410	Linear Algebra	3
CISP 310	Assembly Language Programming for Microcomputers	4
PHYS 430	Heat, Waves, Light and Modern Physics	5
	or	
Chem 401	General Chemistry	5
Electrical/Computer Engineering Units		15
<b>Grand Total (Core units plus Electrical/Computer Engineering units)</b>		<b>56 or 57</b>

**MECHANICAL/AERONAUTICAL ENGINEERING REQUIREMENTS:**

ENGR 312	Engineering Graphics	3
ENGR 422	Engineering Mechanics, Statics	3
ENGR 412	Properties of Materials	3
MATH 410	Linear Algebra	3
PHYS 430	Heat, Waves, Light and Modern Physics	5
	or	
CHEM 401	General Chemistry	5
Total Mechanical/Aeronautical Units		17
<b>Grand Total (Core units plus Mechanical/Aeronautical Engineering units)</b>		<b>58 or 59</b>

**GENERAL ENGINEERING REQUIREMENTS:**

ENGR 312	Engineering Graphics	3
ENGR 422	Engineering Mechanics, Statics	3
ENGR 412	Properties of Materials	3
MATH 410	Linear Algebra	3
PHYS 430	Heat, Waves, Light and Modern Physics	5
OR		
CHEM 401	General Chemistry	5
Total General Engineering Units		17
Grand Total (Core units plus General Engineering units)		58 or 59