

ENGINEERING – B.S. DEGREES									
SDSU COURSE	SDSU COURSE TITLE	GROSSMONT COURSE	AEROSPACE	CIVIL	COMPUTER	CONSTRUCTION	ELECTRICAL	MECHANICAL	ENVIRONMENTAL
ACCTG 201	Financial Accounting Fundamentals	BUS 120				X			
AE 123	The Aerospace Engineer	No Equivalent	X						
BIOL 201B	Principles of Cell & Molecular Biology	BIO 210/211/212							X
CHEM 130	Elementary Organic Chemistry	CHEM 116							X
CHEM 200	General Chemistry	CHEM 141		X		X			X
CHEM 202	General Chemistry for Engineers	CHEM 141 (accepted)	X					X	
CIV E 100	Introduction to Civil Engineering	ENGR 100**		X					
CIV E 120	Computer Applications I	ENGR 120**		X		X			X
CIV E 121	Computer Applications II	ENGR 119 or CADD 120ABCD**		X		X			X
CIV E 160	Statistics for Civil & Environmental Engineers	MATH 160		X		X			X
CIV E 218	Surveying for Civil Engineers	ENGR 218** or SURV 218**		X		X			
CIV E 220	Civil & Environmental Engr. Computer App. III	No Equivalent		X					X
COMPE 160	Introduction to Computer Programming	CSIS 293 or 296			X		X		
COMPE 260	Data Struct.. & Object-Oriented Programming	CS 282**			X				
COMPE 270	Digital Systems	ENGR 270**			X		X		
COMPE 271	Computer Organization	CSIS 165			X		X		
CON E 101, 201, 280	Constr. & Culture, Concepts & Building Codes and Methods (3 courses, 9 units)	No Equivalents		X 101		X			
ECON 102	Principles of Economics	ECON 121				X			
EE 204	Principles of Electrical Engineering	ENGR 210**	X	E					
EE 210	Circuit Analysis I	ENGR 210**			X		X		
EE 280	Methods of Analysis	No Equivalent						X	X
EM 200 & 220	Statics & Dynamics	ENGR 200 & 220**	X	X		X		X	X
ENVE 101	Environmental Engineering Seminar	No Equivalent							X
ENGR 280	Methods of Analysis	MATH 285	X	X	X		X	X	X
GEOL 100 & 101	Planet Earth & Lab	GEOL 110 & 111				X			X 100
MATH 150 & 151	Calculus I & II	MATH 180 & 280	X	X	X	X	X	X	X
MATH 245	Discrete Mathematics	MATH 245			X				
MATH 252	Calculus III	MATH 281	X	X			X	X	X
MATH 254	Introduction to Linear Algebra	MATH 284			X		X		
ME 101	Solid Modeling	No Equivalent	X					X	
ME 102	Solid Modeling II	No Equivalent						X	
ME 203	Computer Programming & Applic.	No Equivalent	X					X	
ME 240	Intro. to Engineering Materials	No Equivalent	X	E				X	
ME 241	Materials Lab.	ENGR 260**						X	
PHYS 195/L & 196/L	Principles of Physics I & II	PHYC 140 & 240	X	X	X	X	X	X	X
PHYS 197/L	Principles of Physics	PHYC 241	X					X	X

E = Choose one course

***Courses offered at Cuyamaca College, only.*

SDSU CONTACTS	See SDSU catalog for email address of each area of emphasis.	
	Aerospace Engineering: (619) 594-6074	Electrical Engineering: (619) 594-5718
	Civil Engineering: (619) 594-6071	Environmental Engineering: (619) 594-6071
	Computer Engineering: (619) 594-5718	Mechanical Engineering: (619) 594-6067

IMPORTANT: See your specific area of emphasis in the current SDSU Catalog and consult with a Counselor. (JJohnson 8/6/09)

09/10 General Education Requirements: Courses are listed on CSU GE "Green Sheet" which is available in the Grossmont College Counseling Center. When referencing the CSU GE "Green Sheet" please be aware of requirements unique to Engineering Majors -- listed below. Upon transfer, request CSU GE Certification from the Grossmont College Admissions & Records Office. Engineering Majors can also choose to follow the SDSU General Education Pattern specific to the major. It is listed in the current SDSU catalog with each area of engineering emphasis. Meet with a Counselor for assistance.

AREA A - English Communication and Critical Thinking: Engineering Majors must complete all courses in this area with a <u>letter grade</u> of "C" or higher. See "Green Sheet" for course selections.	
AREA B - Scientific Inquiry and Quantitative Reasoning:	
1. Physical Sciences	Satisfied by Major
2. Life Sciences	Environmental Engineering Majors: Choose BIO 210. This requirement is satisfied by your major.
3. Laboratory	Satisfied by Major
4. Mathematics/Quantitative Reasoning	Satisfied by Major
AREA C - Arts and Humanities: The CSU GE "Green Sheet" lists 3 courses, 9 units.	
AREA D - Social Sciences: The CSU GE "Green Sheet" lists 3 courses, 9 units. Engineering majors are advised to complete 2 of the 3 from courses that meet American Institutions.	
AREA E - Lifelong Understanding and Self-Development: This area is not required. Engineering majors who choose to follow the "Green Sheet" in order to fulfill GE but are not required to complete this area.	