

# San Diego State University

## Preparation-for-Major Courses

### Civil Engineering, B.S.

SDSU COURSE	SDSU COURSE TITLE	SDCCD COURSE	UNITS	CITY	MESA	MIRA
CIV E 100	INTRO TO CIVIL ENGINEERING	NO EQUIV	N/A	N/A	N/A	N/A
CIV E 120	COMPUTER APPLICATIONS IN CIVIL/ENVIRONMENTAL ENGINEERING AND CONSTRUCTION	NO EQUIV	N/A	N/A	N/A	N/A
CIV E 121	COMPUTER GRAPHICS FOR THE BUILT ENVIRONMENT	NO EQUIV	N/A	N/A	N/A	N/A
CIV E 160	STATISTICAL METHODS FOR THE BUILT ENVIRONMENT	MATH 119*	3	X	X	X
CIV E 218	SURVEYING FOR CIVIL ENGINEERING AND CONSTRUCTION	NO EQUIV	N/A	N/A	N/A	N/A
CIV E 220	CIVIL AND ENVIRONMENTAL ENGINEERING COMPUTER APPLICATIONS III	NO EQUIV	N/A	N/A	N/A	N/A
CHEM 200	GENERAL CHEMISTRY	CHEM 200+* and CHEM 200L+*	3 2	X X	X X	X X
CON E 101	CONSTRUCTION AND CULTURE	NO EQUIV	N/A	N/A	N/A	N/A
ENGR 280	METHODS OF ANALYSIS	MATH 255*	3	X	X	X
E M 200	STATICS	ENGE 200	3	X	X	N/A
E M 220	DYNAMICS	ENGE 250	3	X	X	N/A
MATH 150	CALCULUS I	MATH 150*	5	X	X	X
MATH 151	CALCULUS II	MATH 151*	4	X	X	X
MATH 252	CALCULUS III	MATH 252*	4	X	X	X
PHYS 195	PRINCIPLES OF PHYSICS	PHYS 195*	5	X	X	X
PHYS 196	PRINCIPLES OF PHYSICS	PHYS 196*	5	X	X	X
<b>Engineering Science Elective:</b> Complete at least one of the following courses (can be completed at community college or SDSU)						
E E 204	PRINCIPLES OF ELECTRICAL ENGINEERING	ENGE 260	3	X	X	N/A
M E 240	INTRO TO ENGINEERING MATERIALS	ENGE 210 or MFET 115		X X	X N/A	N/A N/A
M E 352	THERMODYNAMICS AND HEAT TRANSFER	NO EQUIV		N/A	N/A	N/A

+ Both lecture and lab courses must be completed prior to transfer to receive credit for SDSU's course

\* Course also fulfills general education requirement(s) for the CSU GE or IGETC pattern

**TOTAL UNITS: 34-43**

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## Transfer Admission Eligibility\*

All transfer applicants must meet the following requirements to be considered for admission:

- Complete a minimum of 60 CSU-transferable semester units.
- Complete General Education (GE) requirements in written communication, oral communication, critical thinking, and mathematics with a "C" or higher in each course.
- Earn a minimum 2.0 cumulative CSU-transferable GPA. Applicants must meet this GPA at the time of application and must maintain the GPA prior to transfer.
- Be in good standing at the last college or university attended.

Applicants who meet the requirements listed above will be ranked based on the completion of lower division General Education and preparation for the major coursework. Out-of-service area applicants will be selected based on a GPA ranking that may be higher than the major GPA. Visit [www.sdsu.edu/admissions](http://www.sdsu.edu/admissions) for details.

### Notes

- **General Education:** Students may complete either a certified General Education package (CSU GE or IGETC patterns) or the general education pattern specified in the SDSU catalog under "Civil Engineering". The following SDCCD courses are recommended if the student elects to complete the GE pattern listed in the SDSU catalog under "Civil Engineering":
  - Oral Communication (3 units): SPEE 103 or BLAS 106. These cannot be taken credit/no credit.
  - Composition (3 units): ENGL 101 or 105. These cannot be taken credit/no credit.
  - Intermediate Composition and Critical Thinking (3 units): ENGL 205 or PHIL 205. These cannot be taken credit/no credit.
  - Physical Sciences and Lab (11 units): CHEM 200, CHEM 200L, PHYS 195, and PHYS 196
  - Life Sciences(3 units): ANTH 102 or BIOL 107
  - Mathematics/Quantitative Reasoning (3 units): MATH 150. This cannot be taken credit/no credit.
  - Social and Behavioral Sciences (3 units): ANTH 103; HIST 120 and 121 (both courses must be completed prior to transfer); PSYC 135; ECON 120; ECON 121; GEOG 102; GEOG 104; HUMS 101; RTVC 200 or JOUR 202; ENGL 202; POLI 103; PSYC 101; SOCO 101; PHIL 126 or GEND 101 or PSYC 133.
  - Humanities (9 units): Three courses in three different areas:
    - Literature: BLAS 155; ENGL 220; ENGL 221; ENGL 208
    - Art, Classics, Dance, Drama, Humanities, and Music: ARTF 100; ARTF 110; ARTF 111; HIST 120 and 121 (both courses must be completed prior to transfer); CHIC 210; DANC 181; HUMA 101; HUMA 201; MUSI 100; RTVC 160 or DRAM 150 and 151 (both courses must be completed prior to transfer) or DFLM 101; DRAM 105; PHIL 125
    - History: HIST 100; HIST 101; HIST 105; HIST 106
    - Philosophy and Religious Studies: PHIL 102B; PHIL 102A; PHIL 103 or PHIL 104A or PHIL 104B; HUMA 103 and HUMA 104 (both courses must be completed prior to transfer); HUMA 106
    - Foreign Language: Select a foreign language course listed in CSU GE area C2.
  - American Institutions (6 units. 3 of these units may also be applied to one of the General Education categories above.) Complete any series of courses that satisfies areas US1, US2, and US3 as listed under "CSU United States History, Constitution and American Ideals" for Miramar College on [www.assist.org](http://www.assist.org), or complete one of the following two-course sequences:
    - BLAS 140A and 140B
    - HIST 150 and 151
    - CHIC 141A and 141B
    - HIST 109 and 110

\* NOTE: This planning guide is based on existing articulation agreements and the SDSU 2009-2010 catalog; it is subject to change by the receiving university. For more information, please see a counselor, consult the SDSU catalog, reference [www.assist.org](http://www.assist.org), and/or contact the SDSU department at (619) 594-6071 or [ce@engineering.sdsu.edu](mailto:ce@engineering.sdsu.edu).