

REQUIREMENTS FOR BACHELOR OF SCIENCE DEGREES

In addition to the specific courses listed below, general education requirements and electives should be included to bring total to 16-17 units per semester. A total of 132 units is required for the bachelor of science degree in agricultural engineering and in all engineering options except the industrial option which requires 134 units. (See *Degrees and Credentials*.)

Agricultural Engineering

1st Year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 26, AgM 18A-B

2nd Year: Math 6, Physics 4B-C, Engr 1, 1L, 30, 32

3rd and 4th Years:

Engr 2, 2L or 121; 130, 131, 132, 140, 140L, 141, 154, 154L, 163, 163L; 3 units u.d. elective in Physical Science Division

AgM 81, 115A-B, 151A-B, Ag 136; agriculture electives (6 un)

Civil Engineering Option

1st Year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 11, 11L, 26

2nd Year: Math 6, Physics 4B-C, Engr 1, 1L, 30, 32

3rd and 4th Years:

Engr 2, 2L, 101, 102, 130, 131, 132, 133 (or 103 or 141), 134, 135, 137, 140, 140L, 154, 154L, 163, 163L, 170, 171, 172; Geol 25; 3 units u.d. elective in Physical Science Division

Electrical Engineering Option (including Electronics)

1st Year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 11, 11L, 26

2nd Year: Math 6, 117 or 119, Physics 4B-C, Engr 30, 32

3rd and 4th Years:

Engr 121, 130, 131, 132, 150, 150L, 151, 151L, 152, 152L, 153, 153L, 170, 171, 172; 3 units u.d. elective in Physical Science Division

Elect 13 units from the following courses:

Include Engr 160, 160L, 161, 161L (or 163, 163L); remaining units from Engr 140, 140L, 156, 156L, 157, 157L, 158, 158L, Physics 102A, 102B, 120, Math 114, 117, 118A, 118B, 119, 205.

General Engineering Option

1st Year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 11, 11L, 26

2nd Year: Math 6, Physics 4B-C, Engr 1, 1L, 30, 32

3rd and 4th Years:

Engr 2 and 2L, or 121; 130, 131, 132, 136 or 137, 140, 140L, 150, 150L, 151, 151L, 160, 160L, 161, 161L, 170, 171, 172; 6 units u.d. electives in Physical Science Division

Industrial Engineering Option

1st Year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 11, 11L, 26

2nd Year: Math 6, Physics 4B-C, Engr 1, 1L, 30, 32, Econ 1A-B, Acct 1A-B

3rd and 4th Years:

Engr 111, 121, 122, 130, 131, 132, 140, 140L, 154, 154L, 163, 163L, 170, 171
Bus Ad 102, 124, 151

Mechanical Engineering Option

1st Year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 11, 11L, 26

2nd Year: Math 6, Physics 4B-C, Engr 1, 1L, 30, 32

3rd and 4th Years:

Engr 121, 122, 130, 131, 132, 140, 140L, 150, 150L, 151, 151L, 160, 160L, 161, 161L, 170, 171, 172; 162, 162L (or 123, 136); 3 units u.d. elective in Physical Science Division

Sales Engineering Option

1st year: Math 3, 4, Chem 1A, 8, Physics 4A, Engr 11, 11L, 26

2nd Year: Math 6, Physics 4B-C, Engr 1, 1L, 30, 32, Econ 1A-B, Acct 1A-B

3rd and 4th Years:

Engr 130, 131, 132, 140, 140L, 154, 154L, 163, 163L, 170

Bus Ad 102, 118A-B; 8 or 9 units from sales group, Mkt 100, 108, 150, 155