

ASSOCIATE IN SCIENCE GENERAL ENGINEERING

(64 hrs. min.)

CIP: 14.0101

This degree prepares students to transfer to four-year institutions to earn bachelor's degrees in engineering. Students must work closely with their transfer institutions and their SFCC advisers to ensure the best transitions to four-year schools.

GENERAL EDUCATION REQUIREMENTS: (44 HRS.)

Communications (9 hrs.)

ENGL 111 Composition and Rhetoric (3)

ENGL 216 Technical Writing (3)

[or]

ENGL 112 Composition and Literature (3)

[and]

SPCH 111 Public Speaking (3)

[or]

SPCH 220 Interpersonal Communication (3)

Humanities (3 hrs.)

Behavioral/Social Sciences (3 hrs.)

ECON 200 Principles of Economics – Macroeconomics (3)

[or]

ECON 201 Principles of Economics – Microeconomics (3)

Math (12 hrs.)

MATH 162 Calculus I (4)

MATH 163 Calculus II (4)

MATH 264 Calculus III (4)

Science (12 hrs.)

CHEM 121 General Chemistry I (3)

CHEM 121L General Chemistry I Lab (1)

PHYS 161 Calculus Physics I (3)

PHYS 161L Calculus Physics I Lab (1)

PHYS 162 Calculus Physics II (3)

PHYS 162L Calculus Physics II Lab (1)

Computers/Technology (3 hrs.)

ENGR 215 Engineering Programming Using MATLAB (3)

Health, Physical Education and Recreation or Dance (2 hrs. min.)

CORE REQUIREMENTS: (20 HRS.)

DRFT 111 Technical Drawing with CAD (3)

ENGR 111 Introduction to Engineering (3)

ENGR 121 Engineering Graphics (3)

ENGR 122 Engineering Methods (3)

ENGR 212 Engineering Statics (3)

ENGR 222 Engineering Circuit Analysis (3)

ENGR 222L Engineering Circuit Analysis Lab (2)

Note: See "College Success Course Requirement" on Page 8.

TOTAL 64 CREDITS MIN.