

ENGINEERING—CIVIL, MECHANICAL, CONSTRUCTION, CHEMICAL, PETROLEUM

Associate in Science

General Education Courses

Arts & Humanities

General Education Matrix (Arts & Humanities)	3
General Education Matrix (Arts & Humanities)	3

Written Communications

ENGL 110	College Composition I	3
ENGL 120	College Composition II	3
or ENGL 125	Introduction to Professional Writing	

Oral Communications

COMM 110	Fundamentals of Public Speaking	3
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Math, Science & Technology

CHEM 121	General Chemistry I	4
CHEM 121L	General Chemistry I Lab	1
CHEM 122	General Chemistry II	4
CHEM 122L	General Chemistry II Lab	1
MATH 165	Calculus I	4
MATH 166	Calculus II	4

Social & Behavioral Sciences

ECON 201	Principles of Microeconomics	3
General Education Matrix (Social & Behavioral Sciences)		3

Enrichment

Enrichment Course Matrix - may be fulfilled with applicable Arts & Humanities course

Diversity

General Education Matrix - may be fulfilled with applicable Arts & Humanities course or Social & Behavioral Sciences course

Total Credits	39
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Engineering Requirements

PHYS 251	University Physics I	4
PHYS 251L	University Physics I Lab	1
PHYS 252	University Physics II	4
PHYS 252L	University Physics II Lab	1
MATH 265	Calculus III	4
MATH 266	Introduction to Differential Equations	3
Total Credits		17

Civil and Construction Engineering

Engineering Requirements

CAD 201	Fundamentals of Graphical Communication	3
ENGR 201	Statics	3
ENGR 202	Dynamics	3
ENGR 203	Mechanics of Materials	3

Total Credits Required for Civil and Construction Engineering	68
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Engineering Electives

ENGR 204	Surveying I	3
ENGR 204L	Surveying I Lab	1
CT 251	Materials Testing	3
CT 251L	Materials Testing Lab	1

GEOL 105	Physical Geology	3
GEOL 105L	Physical Geology Lab	1

Mechanical Engineering

Engineering Requirements

CAD 201	Fundamentals of Graphical Communication	3
ENGR 201	Statics	3
ENGR 202	Dynamics	3
ENGR 203	Mechanics of Materials	3

Total Required Credits for Mechanical Engineering 68

Engineering Electives

EE 206	Circuit Analysis	3
EE 206L	Circuit Analysis Lab	1
ENGR 241	Thermodynamics I	3

Chemical Engineering

Engineering Requirements

CHEM 241	Organic Chemistry I	4
CHEM 241L	Organic Chemistry I Lab	1

Total Required Credits for Chemical Engineering 61

Engineering Electives

EE 206	Circuit Analysis	3
EE 206L	Circuit Analysis Lab	1
Classes taught at other institutions (discuss with your advisor)		9

Petroleum Engineering

Engineering Requirements

GEOL 105	Physical Geology	3
GEOL 105L	Physical Geology Lab	1
ENGR 201	Statics	3
ENGR 203	Mechanics of Materials	3

Total Required Credits for Petroleum Engineering 66

Engineering Electives

ENGR 241	Thermodynamics I	3
MATH 220	Probability and Statistics	3
Classes taught at other institutions (discuss with your advisor)		9

College Degree Requirements

General Education & Diversity Course Matrix Requirements