

Applied Science Course Plan

Catalog Year 2019-2020

Legend

* Major Requirement

Must be taken to fulfill major requirements.

† Major Elective

Must be taken to fulfill major requirements, or replaced with an equivalent course.

‡ Gen-Ed Requirement

Must be taken to fulfill general education requirements.

§ Elective

Can be chosen from a selection of courses.

See MyGFU for detailed academic requirements.

First Year

Fall Semester

Engineering Principles I (ENGR 151) *	3 credits
General Chemistry (CHEM 211) *	4 credits
Calculus I (MATH 201) *	4 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
Bible Survey (BIBL 100) ‡	4 credits
First Year Seminar (GEED 130) ‡	1 credits
Semester Total	18 credits
Cumulative Total	18 credits

Spring Semester

Engineering Principles II (ENGR 152) *	3 credits
General Chemistry (CHEM 212) *	4 credits
General Physics with Calculus (PHYS 211) *	4 credits
Calculus II (MATH 202) *	4 credits
College Writing (WRIT 110) ‡	3 credits
Semester Total	18 credits
Cumulative Total	36 credits

Second Year

Fall Semester

Statics and Dynamics (ENGM 210) *	4 credits
General Physics with Calculus (PHYS 212) *	4 credits
Calculus III (MATH 301) *	3 credits
Christian Foundations (RELI 300) ‡	3 credits
Introduction to Communication (COMM 100) ‡	3 credits
Electives §	2 credits
Semester Total	19 credits
Cumulative Total	55 credits

Spring Semester

Principles of Materials Science (ENGR 250) *	3 credits
Electrical Circuit Analysis (ENGE 250) *	4 credits
Differential Equations with Linear Algebra (MATH 310) *	3 credits
*Social Science Requirement (PSCI150, PSYC 150, or SOCI 150) §	3 credits
*Fine Arts GE Requirement §	3 credits
Electives §	3 credits
Semester Total	19 credits
Cumulative Total	74 credits

Third Year

Fall Semester

Engineering Thermodynamics (ENGM 311) *	3 credits
Ethics (PHIL 180) ‡	3 credits
*Major Requirement - Math (6 credits required) *	3 credits
*LITR GE Requirement ‡	3 credits
*HIST GE Requirement ‡	3 credits
Electives §	4 credits
Semester Total	19 credits
Cumulative Total	93 credits

Spring Semester

*Major Requirement - Engineering Elective *	3 credits
Major Requirement - Math (6 credits required) *	3 credits
*Global and Cultural Understanding GE Requirement ‡	3 credits
Electives ‡	10 credits
Semester Total	19 credits
Cumulative Total	112 credits

Fourth Year

Fall Semester

Student will need to transfer to another school to complete engineering requirements. *

Chemical Engineering students are strongly encouraged to take CHEM 331, 332 Organic Chemistry and CHEM 401, 402 Physical Chemistry during their time at George Fox. *

Semester Total

0 credits

Cumulative Total

112 credits

Spring Semester

14 Engineering credits transferred in from another school for George Fox degree. * 14 credits

Semesters are listed at 19 credits, one credit above block. This extra credit will be at an additional cost. Transfer work during the three years at George Fox will eliminate the need to be over the block. *

Semester Total

14 credits

Cumulative Total

126 credits