

**AS Degree, Engineering George Fox for 2018-2019 Catalog**


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**AS Degree, Engineering George Fox-FIRST YEAR**

<b>FALL TERM</b>		<b>CREDITS</b>	<b>PREREQUISITIES</b>	<b>QUARTER</b>
CH-221	General Chemistry	5	Prerequisites: A year of high school chemistry or CH-150, or CH-104 and CH-105; MTH-095 with a C or better, or placement in MTH-105 or MTH-111	Fall/Winter
ENGR-111	Introduction to Engineering	3	Prerequisite or Corequisite: MTH-112 or higher	Fall/Winter/ Spring
MTH-251	Calculus I	5	Prerequisite: MTH-112 with a C or better or placement in MTH-251. Recommended: WRD-098 or placement in WR-121	Fall/Win/Spr/ Summer
WR-121	English Composition	4	Prerequisites: MTH-020 or placement in MTH-098; Prerequisite or Corequisite WRD-098 or placement in RD-115; Recommended: Sequence of EC-201 and EC-202 taken in order	Fall/Win/Spr/ Summer
<b>WINTER TERM</b>				
CH-222	General Chemistry	5	Prerequisite or Corequisite: MTH-112 or higher	Winter/Spring
WR-122	English Composition	4	Prerequisites: WR-121 with a C or better. Recommended: WRD-090 or placement in RD-115	Fall/Win/Spr/ Summer
ENGR-112	Engineering Programming	3	Prerequisite or Corequisite: MTH-112 or higher	Fall/Winter /Spring
MTH-252	Calculus II	5	Prerequisite or Corequisite: MTH-112 or higher	Fall/Win/Spr/ Summer
<b>SPRING TERM</b>				
ENGR-115	Engineering Graphics	3	Prerequisite: MTH-252 with a C or better; Recommended: WRD-098 or placement in WR-121	Spring
MTH-254	Vector Calculus	5	Prerequisite: MTH-252 with a C or better	Fall/Spring/ Summer
EC-201 or EC-202	Principles of Economics: MICRO or MACRO	4	Prerequisite: WR-121 with a C or better. Recommended: WRD-090 or placement in RD-115	Fall/Winter/ Spring/Summer
HPE-295	Health and Fitness for Life	3	Recommended: A completed physical by a doctor	Fall/Winter/ Spring

**AS Degree, Engineering George Fox-SECOND YEAR**


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<b>FALL TERM</b>		<b>CREDITS</b>	<b>PREREQUISITIES</b>	<b>QUARTER</b>
Engineering Elective Mech & Civ Engineering	ENGR 211: Statics	4	Prerequisite: MTH-252. Corequisite: PH-211	Fall
Elect and Comp Engin: ENGR-221	Electrical Circuit Analysis I	4	Prerequisite: MTH-252	Fall/Spring
History Elective	Choose from HST 101, 102, 103, 201, 202, 203; PS 205	4		
PH-211	General Physics with Calculus	5	Prerequisites: MTH-251 with a C or better or placement in MTH-252 and WRD-090 with a C or better or placement in RD-115, or placement in WR-121. Recommended: MTH-254	Fall
COMM-111	Public Speaking	4	Prerequisites: WRD-090 or placement in RD-115; WRD-098 or placement in WR-121	Fall/Win/Spr/ Summer

## AS Degree, Engineering George Fox-SECOND YEAR

### WINTER TERM

Engineering Elective: Mech & Civ Engineering	ENGR 212: Dynamics	4	Prerequisites: ENGR-211 and PH 211	Winter
Engineering Elective: Mech & Civ Engineering	ENGR 231: Proprieties of Materials	4	Prerequisite: CH 221	Winter
Engineering Elective: Elect and Comp Engin	ENGR 171: Digital Logic	4	Prerequisites: MTH 111	Winter
Elect and Comp Engin: ENGR-222	Electrical Circuit Analysis II	4	Prerequisites: ENGR-221	Winter
MTH-256	Differential Equations	4	Prerequisite: MTH-252 with a C or better	Winter/Spr/Summer
PH-212	General Physics with Calculus	5	Prerequisites: PH-211 and MTH-252. Recommended: MTH-254	Winter

### SPRING TERM

Engineering Elective: Elect and Comp Engin	ENGR 271: Digital Systems	4	Prerequisites: ENGR-171	Spring
Engineering Elective: Mech & Civ Engineering	Intercultural Experience Elective: See choices below		Consult catalog	varies
MTH-261	Linear Algebra	3 4	Prerequisite: MTH-252 with a C or better. Recommended: WRD-098 or placement in WR-121	Fall/Spring/Summer
PH-213	General Physics with Calculus	5	Prerequisite: PH-212	Spring
MTH-253	Calculus III	5	Prerequisite: T-252 with a C or better; Recommended: WRD-098 or placement in WR-121	Fall/Winter/Spring

Credits required for degree 97

### Electives

The Engineering degree general education requirements differ from the general education requirements for other students (fewer credits are required.) An engineering major must complete the following before graduation:

6 credits Social Science (note that the EC-201 or 202 Principles of Economics: Micro or Macro counts toward this requirement.) Also, one of the following is required for engineering majors: PS-200 Introduction to Political Science, PSY-110 Psychology: An Overview, SOC-204 Introduction to Sociology.

8-9 credits Humanities/Arts & Letters. Each course must be in a different area of the Humanities/Arts & Letters.

3 credits Global and Cultural Understanding.

6 credits in Communications (note that WR-121 and WR-122 English Composition and COMM-111 Public Speaking are already listed above and together meet the requirement.)

Mechanical and Civil Engineering students must also complete an Intercultural Experience Elective : Choose one of the following: FR/GER/SPN 101, 102, 103, 201, 202, 203; ANT 103; R 210; COMM 140; ENG 107, 108, 109)

A student may transfer a maximum of 64 credits to George Fox University.

### Transfer Timeline for George Fox University

Step 1	Apply for Admission to George Fox University	Deadlines: November 1 to enter the scholarship competition at George Fox. Transfer students automatically qualify for scholarships based on their GPA. The admission fee is waived for students applying by January 15 for the regular admission deadline.
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Step 2	Apply for Scholarships at George Fox University	Deadline: November 1
Step 3	Petition for Graduation from Clackamas CC	Winter Quarter (two terms before graduation)
Step 4	Apply to MECOP program	Application Period: March 1-March 31