

General Studies - General Engineering Pathway

Program Location: All locations except for Brookley Field

Length: Four Semesters + One Summer Term

This pathway is designed for students who plan to transfer to a four-year institution to complete a baccalaureate degree in engineering. Requirements vary among institutions and among the different engineering fields. The following program is a composite of the requirements of the first two years of the baccalaureate degree at most four-year institutions. Students should have successfully completed a minimum of four units of high school mathematics, including trigonometry, and three units of science in biology, physics and chemistry.

Semester-by-Semester Pathway/Alabama Transfers Guide

A semester-by-semester pathway is provided as a guide for course selection. Students should consult their Degree Works degree plan and complete an *Alabama Transfers* transfer guide to ensure that they take the appropriate courses for their major at their selected four-year institution. Click [here](#) for a link to the *Alabama Transfers* site. Students are also encouraged to contact their advisor for assistance regarding courses to be completed.

Additional recommendations are as follows:

* Engineering students must choose the History sequence option, taking the first course in Semester 1 and the second in Semester 4.

* In Semester 2, students may choose only from the following Literature options: ENG 251, ENG 252, ENG 271 or ENG 272.

* Variability in credit hours of electives in EGR is due to concentration areas. Total Credit Hours required to graduate in this degree plan is 61 credit hours minimum. Most complete with somewhere in the range of 61-64 credit hours. Contact an Engineering advisor prior to beginning your first semester course work.

Subject: [Engineering Pathways](#)

Type: A.S.

Semester One (Fall)

Item #	Title	Credits
ENG 101	English Composition I	3
CHM 111	College Chemistry I	4
MTH 125	Calculus I	4
ORI 101	Orientation to College	1
	History Sequence (Part I)	3

Semester Two (Spring)

Item #	Title	Credits
ENG 102	English Composition II	3
CHM 112	College Chemistry II	4
MTH 126	Calculus II	4
	Fine Arts Course	3
	Literature Course	3

Summer Semester

Item #	Title	Credits
MTH 227	Calculus III	4
	Engineering Elective	3

Semester Three (Fall)

Item #	Title	Credits
EGR 101	Engineering Foundations	3
PHY 213	General Physics I with Calculus	4
	Engineering Elective	3
	History Sequence (Part II)	3

Complete Graduation Application

Complete the **graduation application** and begin the process of a review of your degree plan before your final semester.

Semester Four (Spring)

Item #	Title	Credits
MTH 238	Applied Differential Equations I	3
	Engineering Elective	3
	Social Science Course	3
	SPH 106 or SPH 107	3
	Total credits:	64