

- One of the following courses is required.

ECO 251	Principles of Microeconomics (3 SHC)
ECO 252	Principles of Macroeconomics (3 SHC)
- One additional general education core course from the following discipline areas is required: anthropology, geography, political science, psychology, and sociology.

ANT 210	GEO 111, 112, 130
POL 110, 120, 210, 220	PSY 150
SOC 210, 213, 220, 225, 240	

NATURAL SCIENCES/MATHEMATICS (20 SHC)

Natural Sciences (12 SHC):

- The following courses are required.

CHM 151	General Chemistry I (4 SHC)
PHY 251	General Physics I (4 SHC)
PHY 252	General Physics II (4 SHC)

Mathematics (8 SHC):

- Two courses are required.

MAT 271	Calculus I (4 SHC)
MAT 272	Calculus II (4 SHC)

OTHER REQUIRED HOURS (21 SHC)

- The following courses are required. (8 SHC)

ACA 111	College Student Success (1 SHC)
CIS 115	Introduction to Programming and Logic (3 SHC)
MAT 273	Calculus III (4 SHC)
- Select at least 7 SHC from the following list of courses. (Specific course selection will depend on the student's planned engineering major and the university to which the student plans to transfer.):

BIO 111	General Biology (4 SHC)
BIO 275	Microbiology (4 SHC)
CHM 152	General Chemistry II (4 SHC)
CSC 134	C++ Programming (3 SHC)
CSC 151	JAVA Programming (3 SHC)
EGR 150	Intro to Engineering (2 SHC)
MAT 280	Linear Algebra (3 SHC)
MAT 285	Differential Equations (3 SHC)
- 4 - 6 additional hours of approved transfer credit are needed to complete the required sixty-five semester hours credit.
- PED 110, Fit and Well for Life (2 SHC), is recommended.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 65

PRE-MAJOR ENGINEERING CURRICULUM MODEL

Students entering the Pre-Major Engineering Associate in Science Degree program must demonstrate competency in or complete the prerequisite(s) (MAT 172 or 175) required for MAT 271 Calculus I. The required physics, calculus, and computer science courses are generally offered only during the semester in the schedule provided below.

		Hours Per Week		
		Class	Lab	Credit
FALL SEMESTER (1st Year)				
ACA 111	College Student Success	1	0	1
CHM 151	General Chemistry I	3	3	4
ENG 111	Expository Writing	3	0	3
MAT 271	Calculus I	3	2	4
	Fine Arts Course	3	0	3
	Social Sciences Elective	3	0	3
	(or take in summer)	16	5	18
SPRING SEMESTER (1st Year)				
CIS 115	Introduction to Programming and Logic	2	2	3
ENG 112	Argument Based Research or	3	0	3
ENG 113	Literature-Based Research or			
ENG 114	Professional Research and Reporting			
MAT 272	Calculus II	3	2	4
PHY 251	General Physics I	3	3	4
	Humanities Elective	3	0	3
	(or take in summer)	14	7	17
FALL SEMESTER (2nd Year)				
CSC 134	C++ Programming*	2	3	3
MAT 273	Calculus III	3	2	4
PHY 252	General Physics II	3	3	4
	History Course	3	0	3
		11	8	14