Jefferson College

ENGINEERING TECHNOLOGY ACADEMIC GUIDE 2021-2022

The Academic Map is a semester-by-semester plan for the full-time college-ready student. Part-time students should work with an advisor to customize the map to fit individual needs.

ACADEMIC PLAN		NOTES
Fall 1st Year	**Cr Hrs**	**Semester 1**
MTH 180 Calculus I (or MTH 141 Precalculus if required)	5	
CIS 155 Intro to Computer Programming	3	
CHM 111 General Chemistry I (or CHM 101 Intro to Chemistry if required)	5	
ENG 101 Composition I	3	
COL 101 Introduction to College	1	
Total Hours	**17**	

Spring 1st Year		**Semester 2**
MTH 185 Calculus II (or MTH 180 Calculus I if not taken in Fall)	5	
EGR 101 Computer Aided Engineering Design	3	
HST 103 U.S. History I (or CHM 111 General Chemistry if not taken in Fall)	3 - 5	
COM 110 Public Speaking	3	
Total Hours	**14 - 16**	

Summer 1st Year		
MTH 185 Calculus II (if not taken in Spring)	5	
HST 103 U.S. History I (if not taken in Spring)	3	
Total Hours	**0 - 8**	

Fall 2nd Year		**Semester 3**
PHY 223 Physics I	5	*See degree plan for an extensive list of humanities or social/behavioral science electives.
EGR 228 Engineering Statics	3	
Economics: ECO 101 or ECO 102	3	
Humanities or Social/Behavioral Science Elective *	3	
PHL 101 Logic	3	
Total Hours	**17**	

Spring 2nd Year		**Semester 4**
PHY 224 Physics II	5	**Spring AS Gen Ed Electives:**
EGR 250 Engineering Dynamics	3	
ENG 102 English Composition II	3	BIO 102 BIO 109 PSY 101(H)
PSC 102 U.S. and MO Government and Constitution	3	
Associate of Science General Education Elective**	3	**Associate of Science electives: must take 3 credit hours total.
Total Hours	**17**	

ENGINEERING TECHNOLOGY ACADEMIC PLAN

Program Description: The Physics/Engineering program provides students with important background courses in Physics and Engineering principles with which they can pursue more specialized advanced courses. This enables our students to transfer to a four-year institution as juniors and be successful in their pursuit in a variety of engineering fields.

Admission Requirements:

Department Faculty Advisors: Bob Brazzle

Associate Dean: Maryanne Angliongto

Employment Outlook/Median Salary:

Career	Degree Level Required	** Growth	Median Annual Salary*
Electrical engineer	B.S.	4%	$89,630
Mechanical engineer	B.S.	5%	$80,580
Civil engineer	B.S.	20%	$79,340
Aerospace engineer	B.S.	7%	$103,720
Petroleum engineer	B.S.	26%	$130,280

**Employment information based on current Bureau of Labor Statistics Occupational Outlook Handbook. See http://www.usatoday.com/story/money/personalfinance/2015/01/31/cheat-sheet-highest-paying-degrees/22478439/ . and http://www.payscale.com/college-salary-report-2013/majors-that-pay-you-back*

***Projected % of change in employment 2012-2022; the average for all occupations is 11%, see http://www.bls.gov/news.release/ecopro.t07.htm*

Jefferson College Program Highlights:

Transfer Information: Jefferson College has articulation agreements with the following four-year institutions:

Jefferson College is currently in the process of obtaining an articulation agreement with Missouri State University (MSU).

The above list is not comprehensive and is subject to change. Additional information about transferring to four-year institutions can be found here.