












This Academic Plan 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. Plan includes minimum 27 general education credit hours (with at least 22  credit hours) and minimum 64 total credit hours required for Associate of Science with Engineering emphasis (A.S.) transfer degree.

ACADEMIC PLAN			NOTES
<b>Fall 1<sup>st</sup> Year</b>		<b>Cr Hrs</b>	<b>Semester 1</b>
AS	MTH180 Calculus I	5	
Elective	COL101 Introduction to College	1	
AS	CIS155 Intro to Computer Programming	3	
	CHM111 General Chemistry I	5	
	ENG101 Composition I	3	
<b>Total Credit Hours</b>		<b>17</b>	
<b>Spring 1<sup>st</sup> Year</b>		<b>Cr Hrs</b>	<b>Semester 2</b>
*Associate of Science electives: must take at least 9 credit hours total. Students should see their advisors to determine the best schedule for their specific engineering disciplines.			Spring Electives:  COM110 Public Speaking (3)  ENG102 English Composition II (3)
AS	MTH185 Calculus II	5	See degree plan for an extensive list of humanities or social/behavioral science electives.
	Associate of Science Electives*	3	
AS	EGR101 Computer-Aided Engineering Design	3	
	HST103 U.S. History I	3	
	Humanities or Social/Behavioral Science Elective	3	
<b>Total Credit Hours</b>		<b>17</b>	
<b>Fall 2<sup>nd</sup> Year</b>		<b>Cr Hrs</b>	<b>Semester 3</b>
*Associate of Science electives: must take at least 9 credit hours total. Students should see their advisors to determine the best schedule for their specific engineering disciplines.			Fall Electives: Elective: CHM200 Organic Chemistry I (5)  ENG102 Composition II (3) Elective: MTH172 Linear Algebra (3)
AS	MTH201 Calculus III	5	
	PHY223 Physics I	5	
Elective	Associate of Science Elective*	3-5	
AS	EGR228 Engineering Statics	3	
<b>Total Credit Hours</b>		<b>16-18</b>	
<b>Spring 2<sup>nd</sup> Year</b>		<b>Cr Hrs</b>	<b>Semester 4</b>
*Associate of Science electives: must take at least 9 credit hours total. Students should see their advisors to determine the best schedule for their specific engineering disciplines.			Spring Electives: Elective: CHM112 General Chemistry II (5) Elective: EGR250 Engineering Dynamics (3) Elective: EGR261 Circuit Analysis (3)
AS	MTH205 Differential Equations	3	
AS	PHY224 Physics II	5	
	ECO101 Macroeconomics	3	
Elective	Associate of Science Elective*	3-5	
<b>Total Credit Hours</b>		<b>14-16</b>	

**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, Maryanne Anglionto

**Interim Associate Dean:** Terry Kite

**Employment Outlook/Median Salary:**

Career	Degree Level	** 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:

Missouri University of Science and Technology (MST)

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