

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	5	
CIS 155 Intro to Computer Programming	3	
CHM 111 General Chemistry I	5	
ENG 101 Composition I	3	
COL 101 Introduction to College (STEM focus)	1	
Total Hours	17	

Spring 1st Year		Semester 2
MTH 185 Calculus II	5	
EGR 101 Computer Aided Engineering Design	3	
HST 103 U.S. History I	3	
COM 110 Public Speaking	3	
Total Hours	14	

Fall 2nd Year		Semester 3
PHY 223 Physics I	5	
EGR 228 Engineering Statics	3	See degree plan for an extensive list of humanities or social/behavioral science electives.
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
*Associate of Science electives: must take 3 credit hours total.		Spring Electives:
PHY 224 Physics II	5	BIO 102
EGR 250 Engineering Dynamics	3	BIO 109
ENG 102 English Composition II	3	PSY 101(H)
PSC 102 U.S. and MO Government and Constitution	3	
Associate of Science Electives*	3	
Total Hours	17	

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 Angliongto

Division Chair: Linda Abernathy

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](#).