



**Associate of Science in Engineering Transfer
(64 Credits)
2024 – 2025 Degree Plan**

A minimum 2.0 cumulative GPA is required for both the CORE42 general education block and the overall degree. The residency requirement specifies that a minimum of 15 credit hours must be completed at Jefferson College. Courses with similar content may not both apply towards graduation. The computer literacy requirement must be completed with a grade of “C” or better. For a list of MOTR approved general education courses, visit the [MOTR webpage](#). This plan is not a substitute for meeting with an [Advising Specialist](#).

	Degree Requirement	Credits Required	Course Area	Course Options	Completed/ In Progress	Future
Associate of Science in Engineering General Education Degree Requirements – 27 credits (MOTR CORE42 completion not required for AS degree.)	Communications	3 credits	Written Communications	ENG101(H)		
	Civics	3 credits	MO Civics Exam	PSC001		
			Civics	HST103(H), 104(H); PSC102(H)		
	Humanities and Fine Arts AND/OR Social and Behavioral Sciences	3 credits	Economics	ECO101, 102		
			Art	ART101, 103, 105		
			Civilization	HST201, 202		
			Foreign Language	FRN101, 102; GRM101, 102; SPN101, 102		
			Literature	ENG105, 106, 215(H), 216(H), 225, 226, 228, 229		
			Geography	GEO103		
			Music	MSC101, 131, 133, 231, 232		
			Philosophy/Religion	PHL101, 102(H), 201, 202(H)		
			Political Science	PSC155		
Psychology			PSY101(H)			
Sociology	SOC101(H)					
Theatre	THT100(H)					
Mathematical Science	5 credits	Mathematical Science	MTH180 (not a MOTR course)			
Natural Science	10 credits with 2 labs	Physical Science	CHM111			
			PHY223			
Associate of Science in Engineering Core, Electives, and Institutional Requirements (First Year Experience and Computer Literacy) – 37 credits	Institutional Requirements	Computer Literacy requirement is met with required General Education Natural Science course PHY223.				
		1 credit	First Year Experience	EGR100		
	Core Engineering Courses	18 credits	Calculus II (5)	MTH185		
			Calculus III (5)	MTH201		
			Differential Equations (3)	MTH205		
			General Physics II (5)	PHY224		
	Electives	18 credits	Biology for Majors I (4)	BIO103		
			Genetics (4)	BIO201		
			General Chemistry II (5)	CHM112		
			Organic Chemistry I (5)	CHM200		
			Organic Chemistry II (5)	CHM201		
			Adv Communications (3)	COM110 or ENG102(H)		
			Intro Computer Program (3)	CIS155		
			Comp Aided Engin Dsgn (3)	EGR101		
			Engineering Mech-Statics (3)	EGR228		
			Engineering Mech-Dynam (3)	EGR250		
			Circuit Analysis I (3)	EGR261		
			Intro Statistics (3)	MTH132		
			Linear Algebra (3)	MTH172		
			Into Metallurgy (3)	MTT148		
Physical Geology (4)			PHY105			
MOTR Hum or Soc Be Sci (3)			See MOTR list above			