Last Name _____ First _____

ASSOCIATE OF SCIENCE TRANSFER DEGREE - effective 2022-2023

Engineering emphasis (64 credit hours)

Minimum 2.00 Cumulative Grade Point Average for A.S. Degree. 15 hour residency requirement.

			Course Areas/Titles	Course Numbers	Done	Now	Need
A.S. Engineering emphasis GENERAL EDUCATION OPTIONS AND REQUIREMENTS (27 credit hours) MOTR CORE 42 completion not required for A.S. degree	**Communications**	3 hours	*Written Communications*	ENG 101(H)			
	Humanities and Fine Arts AND/OR Social and Behavioral Sciences	3 hours	*Civics*	HST 103(H), 104(H); PSC 102(H)			
			PSC001 MO Higher Ed Civics Exam must also be completed				
		3 hours	*Economics*	ECO 101, 102			
		3 hours	*Art*	ART 101, 103, 105			
			Civilization	HST 201, 202			
			Foreign Language	FRN 101, 102; GRM 101, 102; SPN 101, 102			
			Literature	ENG 105, 106, 215(H), 216(H), 225, 226, 228, 229			
			Geography	GEO 103			
			Music	MSC 101, 131, 133, 231, 232			
			Philosophy/Religion	PHL 101, 102(H), 201, 202(H)			
			Political Science	PSC 155			
			Psychology	PSY 101(H)			
			Sociology	SOC 101(H)			
			Theatre	THT 100(H)			
	Mathematical Sciences	5 hours	*Mathematical Sciences*	MTH 180 (not a MOTR course but meets general education requirement for math)			
	Natural Sciences	10 hours with 2 labs*	*Physical Sciences*	CHM 111(H)*			
				PHY 223*			
A.S. Engineering emphasis DEGREE ELECTIVE OPTIONS AND REQUIREMENTS (37 hours)	**Institutional Requirements**	**Computer Literacy met with required Engineering emphasis General Education course PHY223**			**Required course listed above**		
		First Year Experience (FYE 1 hr)	Exploring the Field of Engineering	EGR 100 (counts as elective degree requirement)			
	REQUIRED ENGINEERING COURSES	18 hours	Calculus II (5)	MTH 185			
			Calculus III (5)	MTH 201			
			Differential Equations (3)	MTH 205			
			General Physics II (5)	PHY 224			
	Associate of Science Technical Elective Options	19** hours (Including FYE coruse)	Biology for Majors I (4)	BIO 103			
			Genetics (4)	BIO 201			
			General Chemistry II (5)	CHM 112			
			Organic Chemistry I (5)	CHM 200			
			Organic Chemistry II (5)	CHM 201			
			Advanced Communications (3)	COM 110 or ENG 102(H)			
			Introduction to Computer Programming (3)	CIS 155			
			Computer Aided Engineering Design (3)	EGR 101			
			Engineering Mechanics-Statics (3)	EGR 228			
			Engineering Mechanics-Dynamics (3)	EGR 250			
			Circuit Analysis I (3)	EGR 261			
			Introduction to Statistics (3)	MTH 132			
			Linear Algebra (3)	MTH 172			
			Introduction to Metallurgy (3)	MTT 148			
			Physical Geology (4)	PHY 105			
			MOTR Humanities or Social Behavioral Science as needed by transfer institution (3)	Humanities/Social Sciences			
TOTAL A.S. Engineering emphasis degree credit hours (at least 64 hours required)							

Institution Student Plans to Transfer to and Major Area of Study:

Student Signature/Date:

Advisor Signature/Date:

Total may vary depending on major areas of study requirements related to specific Engineering discipline: Aerospace, Agricultural, Ceramic, Chemical, Civil, Electrical, Engineering Management, Food Biochemical and Environmental, Geological, Geology and Geophysics, Industrial, Mechanical, Metallurgical, Mining, Nuclear, and Petroleum Engineering. **Consult your Engineering Advisor and 4-year transfer institution for assistance in selecting courses for your specific degree, major, and transfer institution requirements.