

Name:

Key:

Done
In Progress
Possible based on prerequisites

2016-2017 Engineering Management Curriculum

This chart was prepared by Freshman Engineering using the 2016-2017 catalog. It is designed to assist in advising and course selection; refer to the student's catalog requirement year for official requirements and to the student's degree audit for official progress.

Prerequisites	FEP		Math	1103	Fundamentals of Algebra	Prerequisite: Entrance requirements.	3	
	FEP		Math	1120	College Algebra	Prerequisite: By placement examination.	5	
	FEP		Math	1140	College Algebra	Prerequisite: By placement examination.	3	
	FEP		Math	1160	Trigonometry	Prerequisite: Math 1120 or 1140 with a grade of "C" or better; or by placement exam.	2	
Semester 1	FEP		Fr Eng	1100	Study & Careers in Engineering		1	
	FEP		Chem	1310	General Chemistry I	Prerequisite: Entrance requirements.	4	
	FEP		Chem	1319	General Chemistry Laboratory	Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.	1	
	FEP		Chem	1100	Introduction to Laboratory Safety & Hazardous Materials		1	
	FEP		Math	1214	Calculus for Engineers I	Prerequisites: A grade of "C" or better in both Math 1160 and one of Math 1120 or Math 1140; or by placement exam.	4	
	FEP	<i>Hum/Soc Sci Requirement-English</i>	English	1120	Exposition and Argumentation		3	
	FEP	<i>Hum/Soc Sci Elective - History</i>	History/Pol Sci	one of these	1. History 1200 Modern Western Civilization 2. History 1300 American History to 1877 3. History 1310 American History Since 1877 4. Pol Sci 1200 American Government		3	

Semester 2	FEP		Mech Eng	1720	Introduction to Engineering Design		3	
	FEP		Math	1215	Calculus for Engineers II	Prerequisites: Math 1160 and either Math 1208 or Math 1214 both with a grade of "C" or better; or by placement exam.	4	
	FEP		Physics	1135	Engineering Physics I	Prerequisite: Math 1208 or 1214.	4	
	FEP	<i>Hum/Soc Sci Elective - Econ</i>	Econ	one of these	1. Econ 1100 Principles of Microeconomics 2. Econ 1200 Principles of Macroeconomics		3	
			Comp Sci	1972	Introduction to MATLAB Programming	Prerequisite: Accompanied by Comp Sci 1982 and a "C" or better grade in either Math 1208 or Math 1214.	2	
			Comp Sci	1982	MATLAB Programming Laboratory	Prerequisite: Accompanied by Comp Sci 1972.	1	

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Semester 3			Math	2222	Calculus with Analytic Geometry III	Prerequisites: Math 1215 or Math 1221 with a grade of "C" or better.	4	
			Physics	2135	Engineering Physics II	Prerequisites: Physics 1135 or Physics 1111, Math 1221 or Math 1215.	4	
			Civ Eng	2200	Statics	Prerequisites: Physics 1135 or Physics 1111 with a grade of "C" or better; Math 1215 or Math 1221 with a grade of "C" or better; preceded or accompanied by Math 2222.	3	
			Eng Mgt	1210	Economic Analysis of Engineering Projects	Prerequisites: Math 1214.	2	
			Eng Mgt	2310	Introduction to System Engineering	Prerequisites: Math 1208 or Math 1214.	3	

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Semester 4			Math	3304	Elementary Differential Equations	Prerequisite: Math 2222 with a grade of "C" or better.	3	
		<i>Statistics Elective</i>	Stat	one of these	1. Stat 3115 Engineering Statistics 2. Stat 3117 Introduction to Probability and Statistics	1. Prerequisite: Math 1215 or 1221 with a grade of "C" or better. 2. Prerequisite: Math 2222 with a grade of "C" or better.	3	
			Eng Mgt	2110	Managing Engineering and Technology	Prerequisite: A grade of "C" or better is required in this course to meet Engineering Management degree requirements.	3	
			Eng Mgt	2211	Engineering Accounting and Finance	Prerequisite: Eng Mgt 1210, or understanding of engineering economic principles.	3	
			Mech Eng	2350	Engineering Mechanics - Dynamics	Prerequisites: A grade of "C" or better in each of Civ Eng 2200 and Math 2222	2	

	<i>Hum/Soc Sci Requirement - Psych</i>	Psych	1101	General Psychology		3	
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Semester 5		Eng Mgt	3310	Operations and Production Management	Prerequisites: Eng Mgt 2110.	3		
		Civ Eng	2210	Mechanics of Materials	Prerequisite: Civ Eng 2200 with grade of "C" or better.	3		
		Civ Eng	2211	Materials Testing	Prerequisite: Preceded or accompanied by Civ Eng 2210.	1		
		Eng Mgt	3510	Marketing Management	Prerequisites: Preceded or accompanied by Eng Mgt 2110.	3		
		<i>Hum/Soc Sci Elective - Communications</i>	SP&M S	one of these	1. SP&M S 1185 Principles of Speech 2. SP&M S 2181 Communication Theory	1. Prerequisite: Entrance requirements. 2.	3	
		<i>Hum/Soc Sci Elective - Humanities</i>	various	one of these	(FEP) Humanities course chosen from the <i>Approved List of Humanities and Social Science Courses for Engineering Degrees</i> at ugs.mst.edu .	Prerequisites vary.	3	

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Semester 6		Eng Mgt	4710	Quality	Prerequisites: Stat 3115 or Stat 3117.	3		
		Mech Eng	2527	Thermal Analysis	Prerequisites: Math 1215 (or 1221), Physics 1135.	3		
		Elec Eng	2800	Electrical Circuits	Prerequisites: Math 3304 or 3329; Physics 2135.	3		
		<i>Hum/Soc Sci Requirement - English</i>	English	3560	Technical Writing	Prerequisites: English 1120 and second-semester junior standing.	3	
		Eng Mgt	3320	Introduction to Project Management	Prerequisites: Junior or above standing.	3		

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Semester 7		<i>Emphasis Area Required Course</i>	various	one of these	Emphasis area required course approved by the student's advisor. Students are required to select an emphasis area and maintain a minimum 2.0 GPA for these courses. <i>See Eng Mgt Advisor.</i>	Prerequisites vary.	3	
		<i>Emphasis Area Required Course</i>	various	one of these	Emphasis area required course approved by the student's advisor. Students are required to select an emphasis area and maintain a minimum 2.0 GPA for these courses. <i>See Eng Mgt Advisor.</i>	Prerequisites vary.	3	
		<i>Emphasis Area Required Course</i>	various	one of these	Emphasis area required course approved by the student's advisor. Students are required to select an emphasis area and maintain a minimum 2.0 GPA for these courses. <i>See Eng Mgt Advisor.</i>	Prerequisites vary.	3	
			Eng Mgt	4110	General Management-Design and Integration	Prerequisites: Eng Mgt 2210, 2211; preceded or accompanied by Eng Mgt 3310, 3320, 4710, and senior standing.	3	
		<i>Technical Elective</i>	various	one of these	Technical elective approved by the student's advisor. <i>See Eng Mgt Advisor.</i>	Prerequisites vary.	3	

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Semester 8	<i>Technical Elective</i>	various	one of these	Technical elective approved by the student's advisor. <i>See Eng Mgt Advisor.</i>	Prerequisites vary.	3	
	<i>Technical Elective</i>	various	one of these	Technical elective approved by the student's advisor. <i>See Eng Mgt Advisor.</i>	Prerequisites vary.	3	
		Eng Mgt	4907	Engineering Management Senior Design	Prerequisites: Preceded or accompanied by Eng Mgt 4110.	3	
	<i>Hum/Soc Sci Elective - Upper Level</i>	various	one of these	(FEP) Course, chosen from the Approved List of Humanities and Social Science Courses for Engineering Degrees at ugs.mst.edu, at the 2000-level or above which requires as a prerequisite the successful completion of a lower level humanities or social sciences course. Foreign language courses numbered 1180 will be considered to satisfy this requirement. Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000 level.	Prerequisites vary.	3	
	<i>Free Elective</i>	various	one of these	Each student is required to take three hours of free electives in consultation with his/her academic advisor. Credits which do not count towards this requirement are deficiency courses (such as algebra and trigonometry), and extra credits in required courses. Any courses outside of engineering and science must be at least three credit hours.	Prerequisites vary.	3	

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Total = 128