Sample Plan of Study

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				ical Engineer			
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Course	Semester 1 Title	Cr.	Pre/ConP	Course	Semester 2 Title	Cr.	Pre/ConP
MA 165	Analytic Geometry and Calculus I (Math)	4	Pre: MAT 110 or MA 158 or passing ENG Math Placement Test	MA 166	Analytic Geometry and Calculus II (Math)	4	Pre: MA 165
CHM 115	General Chemistry I (Science)	4	ConP: MA 165	ENGL 106	First-Year Composition (English Lan. & Com.)	4	ENGL 100
ENGL 100	English for Academic Studies (English Lan. & Com.)	3		ENGR 132	Transforming Ideas to Innovation II (General Eng.)	2	Pre: ENGR 131
ENGR 131	Transforming Ideas to Innovation I (General Eng.)	2		SS	Science Selective* (Science; for example: CHM 112)	3	
GEE	General Education Elective (refer to course catalogue)	3		PHYS 172	Modern Mechanics (Science)	4	ConP: MA 165
	Semester Credits =	16			Semester Credits =	17	
			<u>Sc</u>	ophomore Ye			
Course	Semester 3 Title	Cr.	Pre/ConP	Course	Semester 4 Title	Cr.	Pre/ConP
ME 200	Thermodynamics I (Thermal/Fluid Sciences)	3	Pre: CHM 115 ConP: MA 261 , ENGR 132	ME 263	Intr. to ME Design, Innov. & Entrepreneurship, with Lab (Design)	3	Pre: ME 270, COM 114, ENGL 106 , ENGR 132 ConP: ME200, MA 262, ME 290, CGT 163
ME 270	Basic Mechanics I (Mechanical Science)	3	Pre: PHYS 172 (min grade C-) , MA 166 (min grade C-) ; ConP: MA 261, ENGR 132	ME 274	Basic Mechanics II (Mechanical Science)	3	Pre: ME 270, ENGR 132 (C-) ConP: MA 262
CGT 163	Graphical Communication And Spatial Analysis (General Eng.)	2	,	MA 262	Linear Algebra And Differential Equations (Math)	4	Pre: MA 261
MA 261	Multivariate Calculus (Math)	4	Pre: MA 166	EE 201	Linear Circuit Analysis I (Syst. Meas. and Control)	3	Pre: ENGR 131, MA 166 (min grade C-), PHYS 172 ConP: MA 261
PHYS 241	Electricity and Optics (Science)	3	Pre: PHYS 172 ConP: MA 166	EE 207	Electronic Measurement Techniques Lab (Syst. Meas. & Control)	1	ConP: EE 201
COM 114	Fund. of Speech Communication (English Lan. & Com.)	3	ENGL 100	ME 290	Global Engineering Professional Seminar (ME Seminars)	1	Pre: COM 114, ENGL 106
				GEE	General Education Elective (refer to course catalogue)	3	
	Semester Credits =	18			Semester Credits =	18	

				Junior Year					
	Semester 5			Semester 6					
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP		
ME 309	Fluid Mechanics, with Lab (Thermal/Fluid Sciences)	4	Pre: ME 263, ME 274, MA 262	ME 352	Machine Design I, with Lab (Design)	4	Pre: ME 263, ME 274 and ME 323		
ME 365	Systems And Measurements, with Lab (Syst. Meas. and Control)	3	Pre: EE 201, ME 274, MA 262, EE 207	ME 375	System Modeling And Analysis (Syst. Meas. and Control)	3	Pre: ME 365, MA 303		
ME 323	Mechanics Of Materials (Mechanical Science)	3	Pre: ME 270	MSE 230	Structure and Properties of Materials (Mechanical Science)	3	Pre: CHM 115 (min. grade C-), MA 165 (min grade C-)		
MA 303	Diff. Equations & Partial Diff. Equations for Engn. &Sci. (Math)	3	Pre: MA 262 OR (MA 265 and MA 266)	RE1	Restricted Elective (for example ME 300; refer to Degree Requirement)	3			
GEE	General Education Elective (refer to course catalogue)	3		GEE	General Education Elective (refer to course catalogue)	3			
	Semester Credits =	16			Semester Credits =	16			
	Semester 7			Senior Year Semester 8					
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP		
	Mechanical Engineering		·		Duefessional Floative (refer to severe		•		
PE1	Professional Elective (refer to course catalogue)	3		PE3	Professional Elective (refer to course catalogue)	3			
ME 315	Heat And Mass Transfer, with Lab (Thermal/Fluid Sciences)	4	Pre: ME 309, ME 365, MA 303	ME 463	Engineering Design, with Lab (Design, Capstone Course)	3	Pre: ME 352, MSE 230 ConP: ME 315, ME 375		
FE	Restricted Elective (for example: Free Elective* (any non-remedial course. for example: CS 159)	3		RE2	Restricted Elective (for example: ME 452; refer to Degree Requirement)	3			
PE2	Professional Elective (refer to course catalogue)	3		PE4	Professional Elective (refer to course catalogue)	3			
	General Education Elective (refer to	3		GEE	General Education Elective (refer to course catalogue)	3			
GEE	course catalogue)	Ū			course catalogue)				

Total Minimum Credits Required for Graduation = 132

AUM reserves the right to change program content, course requirements, materials, and/or schedules as deemed necessary

The sample plan of study is designed for a full time student within an ordinary graduation period between four and five years.