

**ENGINEERING DESIGN TECHNOLOGY**

2017-2018

Cr. Hrs	SEM 1	Cr. Hrs	SEM 2	Cr. Hrs	SEM 3	Cr. Hrs	SEM 4	Cr. Hrs	SEM 5	Cr. Hrs	SEM 6	Cr. Hrs	SEM 7	Cr. Hrs	SEM 8
4	<b>MATH 1220 or 1700 Calculus I</b>	3+1	<b>CHEM 1100/1110 General Chemistry I (L)</b>	3	<b>EDMM 2460 Intro to Computer- Aided Design (F, Sp, Sul)</b>	3	<b>EDMM 2001 Applied Electricity &amp; Electronics (L) (F, Sp, Sul)</b>	2	<b>EDMM 2830 Thermodynamics (L) (F, Sp)</b>	3	<b>EDMM 3200 Engineering Cost Analysis (F, Sp, Sul)</b>	3	<b>EDMM 4480 Advanced Computer- Aided Analysis (L) (F)</b>	2	<b>EDMM 4920 Multidisciplinary Senior Project (F, Sp)</b>
	MATH 1180 ≥ C or placement		MATH 1110 ≥ C or placement		EDMM 1420 ≥ C		PHYS 1070/1080 ≥ C or PHYS 1150+1160 ≥ C or PHYS 2070/2080 ≥ C		PHYS 1130 +1140 ≥ C MATH 1220 or 1700 ≥ C		MATH 1220 or 2000 or 1700 ≥ C		EDMM 3440 ≥ D *EDMM 3480 ≥ D *Can be concurrent		EDMM 4910 ≥ C Department Approval
3	<b>IEE 1020 Technical Communication (F, Sp)</b>	4	<b>MATH 1230 or 1710 Calculus II</b>	3	<b>IEE 2610 Engineering Statistics (L) (F, Sul)</b>	3	<b>EDMM 2500 Plastics Properties &amp; Processing (L) (F, Sp)</b>	3	<b>EDMM 3460 Programming for Computer-Aided Design (L) (F)</b>	3	<b>EDMM 3440 Product and Machine Design (L) (F)</b>	3	<b>EDMM 4490 Advanced Product and Systems Design (L) (F)</b>	1	<b>EDMM 4930 Multidisciplinary Senior Project Consultation (F, Sp)</b>
	MATH 1110 or placement		MATH 1220 or 1700 ≥ C		MATH 1220 or 1700 ≥ C		Recommended CHEM 1100/1110		EDMM 2460 ≥ C CS 1110 ≥ C		EDMM 1430 ≥ C EDMM 2810 ≥ C		EDMM 3440 ≥ D		EDMM 4910 ≥ C Department Approval
3	<b>EDMM 1420 Engineering Graphics (L) (F, Sp, Sul)</b>	3	<b>EDMM 1440 Descriptive Geometry (L) (Sp)</b>	4+1	<b>PHYS 1150/1160 General Physics II (L)</b>	4	<b>EDMM 2810 Statics and Strength of Mmaterials (F, Sp, Sul)</b>	3	<b>EDMM 3480 Design For Production (L) (F)</b>	3	<b>EDMM 3840 Fluid Mechanics and Hydraulics (L) (F, Sp)</b>	2	<b>EDMM 4910 Multidisciplinary Senior Proposal (F, Sp)</b>	3	<b>APPROVED ELECTIVE**</b>
			Recommended EDMM 1420		PHYS 1130 ≥ C		MATH 1220 or 1700 or 2000 ≥ C		EDMM 1420, EDMM 2540, EDMM 2810 & EDMM 2460 ≥ C Co-requisite IME 3540		EDMM 2810 ≥ C PHYS 1130+1140 ≥ C		Department Approval		
3	<b>EDMM 1430 Product Design Fund. (L) (F)</b>	4+1	<b>PHYS 1130/1140 General Physics I (L)</b>	1	<b>CS 1021 Intro. to Engr. Computation I: Spreadsheets (F, Sp)</b>	3	<b>EDMM 3020 Engr. Teams: Theory &amp; Practice (F, Sp, Sul)</b>	3	<b>EDMM 3540 Metrology (L) (F)</b>	3	<b>EDMM 4460 CAD Applications (L) (Sp)</b>	3	<b>APPROVED ELECTIVE**</b>	3	<b>GEN ED II* Humanities</b>
			MATH 1110 ≥ C or placement		<b>MATH 1180 ≥ C</b>		IEE 1020 ≥ C		EDMM 2610 ≥ C Co-requisite EDMM 3480		EDMM 2460 ≥ C				
3	<b>EDMM 1500 Intro to Manufacturing (F, Sp, Sul)</b>			1	<b>CS 1023 Intro. to Engr. Computation III: Cmptr. Progr. (F, Sp)</b>	3	<b>ME 2500 Materials Science (F, Sp, Sul)</b>	3	<b>APPROVED ELECTIVE**</b>	3	<b>APPROVED ELECTIVE**</b>	3	<b>GEN ED I* Fine Arts</b>	3	<b>GEN ED III* U.S. Cultures &amp; Issues</b>
					MATH 1180 ≥ C		CHEM 1100 + 1110 ≥ C MATH 1220 or 1700 ≥ C or								
				3	<b>EDMM 2540 Machining Processes (L)</b>	3	<b>EDMM 2560 Properties of Materials (L) (F)</b>	2	<b>GEN ED VIII* Health &amp; Well Being</b>					3	<b>GEN ED IV* Other Cultures &amp; Civilizations</b>
					EDMM 1500 recommended		CHEM 1100 + 1110 ≥ C								
	16 hours		16 hours		16 hours		16 hours		16 hours		15 hours		14 hours		15 hours
															<i>124 hours total</i>

NOTE: Prerequisite courses are shown in smaller print.

\* See your academic advisor for general education requirements.

22 Cr. Gate Courses Req.

76 Cr. EDT req.

14 Cr. Gen Ed Req.

12 Cr. EDT Elective Req.

\*\* A minor is recommended. See elective options on page 2.

A 'C' or better is required for admission to upper level CEAS courses

**ENGINEERING DESIGN TECHNOLOGY ELECTIVES - Select any four (4) of the following\* electives**

Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective		
3	<b>EDMM 1220 Automobile &amp; Society</b>	3	<b>EDMM 2220 Mobile Energy Sources &amp; Lubricants</b>	1-3	<b>EDMM 2990 Cooperative Education</b>	3	<b>EDMM 3120 Systems Decision Making</b>	3	<b>EDMM 3240 Automotive Power Systems</b>	3	<b>EDMM 3250 Automotive Electric Systems</b>	3	<b>EDMM 3260 Operations Planning &amp; Control</b>
			College Writing				IEE 2610 or STAT 2600 ≥ C		EDMM 1500 recommended		EDMM 1500 & 2001 recommended		STAT 2160 or 2600 or IEE 2610 ≥ C
3	<b>EDMM 3280 Quality Assurance &amp; Control</b>	3	<b>EDMM 3500 Production Thermoplastic Processing</b>	3	<b>EDMM 3520 Metal Casting</b>	3	<b>EDMM 3580 Computer Aided Manufacturing</b>	3	<b>EDMM 4250 Automatic &amp; Automated Drive Line Control Systems</b>	3	<b>EDMM 4260 Automotive Structure, Ride &amp; Safety</b>	3	<b>EDMM 4520 Die Casting</b>
	STAT 2160 or 2600 or IEE 2610 ≥ C		EDMM 2500 ≥ C		EDMM 2540 ≥ C		EDMM 2540 ≥ C		EDMM 1220 recommended		EDMM 1220 recommended		EDMM 2540 ≥ C
					EDMM 2560 or ME 2500 ≥ C		EDMM 2460 ≥ C						ME 2500
													EDMM 3520 recommended
3	<b>EDMM 4560 Process Testing &amp; Measurement</b>	2	<b>EDMM 4570 Manufacturing for Sustainability</b>	3	<b>EDMM 4590 Mold Design &amp; Construction</b>	3	<b>EDMM 4870 Manufacturing Productivity Techniques</b>	3	<b>EDMM 4880 Applied Process Reengineering**</b>	3	<b>EDMM 5500 Advanced Plastics Processing</b>	3	<b>IEE 3420 Ergonomics Design</b>
	EDMM 2810 ≥ C				EDMM 2500 & 2540 ≥ C		Senior Standing		Senior Standing		EDMM 2500 or equivalent		
	IEEM 2610 or STAT 2600 ≥ C								ISM minors only				
	ME 2500												
4	<b>MATH 2720 Multivariate Calculus &amp; Matrix Algebra</b>	4	<b>MATH 3740 Differential Equations &amp; Linear Algebra</b>	1	<b>MSL 1020 Introduction to the Profession of Arms (Sp)</b>	2	<b>MSL 2020 Army Doctrine &amp; Team Development (Sp)</b>	3	<b>MSL 3020 Applied Leadership in Small Unit Operations (Sp)</b>		<b>MSL 4020 Mission Command &amp; the Company Grade Officer (Sp)</b>		
	MATH 1230 or 1710 ≥ C		MATH 2720 ≥ C		Approval of department chair		Approval of department chair		Approval of department chair		Approval of department chair		

\* This is not an exhaustive list; please talk with your Academic Advisor for other options and/or to discuss a minor.

\*\* This course is restricted to ISM minors