	120	BS	+	30 MS		
Freshman Year Fall Semester		-			Freshman Year Spring Semester	
Description	Cr			Course Code	Description	Cr
General Chemistry Lec I (A1)	3			EGR 106	Foundations of Engineering II (A4)	2
General Chemistry I Lab	1			MTH 142 +	Calculus II (B3)	4
Foundations of Engineering I (A4)	1			PHY 203	Elementary Physics I (A1)	3
Calculus I (A1, B3)	4			PHY 273	Elementary Physics Lab I (A1)	1
General Education Outcome(s)*	6				General Education Outcome(s)*	6
	15					16
Sophomore Year Fall Semester					Sophomore Year Spring Semester	
Description	Cr			Course Code	Description	Cr
Mfg Processes & Systems (3), Mfg Processes & Systems Lab (1)	3-4			EGR 316G	Engineering Ethics (A3, C1, G)	3
Engineering Graphics (3)				ISE 240 and 241 <i>or</i>	Mfg Processes & Systems (3), Mfg Processes & Systems Lab (1)	3-4
Sustainable Lean Production (A1,B4,G)	3			MCE 201	Engineering Graphics (3)	
Statics	3			MTH 243 +	Calculus for Functions of Several Vars (A1, B3)	3
Advanced Engineering Mathematics	3				Science Elective**	3
Elementary Physics II (A1)	3				Technical Elective***	3
Elementary Physics II Lab (A1)	1					
	16-17					15-16
Junior Year Fall Semester					Junior Year Spring Semester	
Description	Cr			Course Code	Description	Cr
Financial Accounting	3			ISE 304	Engineering Econ and Proj Planning	3
Engineering Materials	3			ISE 312	Statistical Methods & Quality Systems	3
Probability & Statistics for Engineers	3			ISE 333	Stochastic Systems	3
Computer Tools for Engineers	3			ISE 334	Simulation Modeling and Analysis	3
Deterministic Systems	3				Professional Elective****	3
	15					15
Senior Year Fall Semester					Senior Year Spring Semester	
Description	Cr			Course Code	Description	Cr
ISE Capstone Design I	3			ISE 402	ISE Capstone Design II (D1)	3
Intro To Human Factors & Ergonomics	3		Π		Professional Elective****	3
Production System Design	3		Π		Professional Elective****	3
Professional Elective****	3		Π		Technical Elective***	3
Graduate Course	3		Π	ISE 4xx/5xx	Graduate Course	3
1	45			-		15
	15					
Summer	15	-				
Summer Description	15 Cr				Note: See undergraduate curriculum sheet for	
					Note: See undergraduate curriculum sheet for more information on undergraduate requirements.	
Description	Cr					
Description General Education Outcome(s)*	Cr 3					
Description General Education Outcome(s)*	<b>Cr</b> 3 3			Fifth Year		
Description General Education Outcome(s)* Thesis	<b>Cr</b> 3 3			Fifth Year Course Code	more information on undergraduate requirements.	Cr
Description General Education Outcome(s)* Thesis Fall	Cr 3 3 6				more information on undergraduate requirements. Spring	Cr 3
Description General Education Outcome(s)* Thesis Fall Description	Cr 3 3 6 Cr			Course Code	more information on undergraduate requirements. Spring Description	
Description         General Education Outcome(s)*         Thesis         Fall         Description         Deterministic Systems Optimization	Cr 3 3 6 Cr 3			Course Code ISE 533	more information on undergraduate requirements.  Spring Description Adv. Statistical Methods for Research & Ind.	3
	General Chemistry Lec I (A1)         General Chemistry I Lab         Foundations of Engineering I (A4)         Calculus I (A1, B3)         General Education Outcome(s)*         Sophomore Year Fall Semester         Description         Mfg Processes & Systems (3), Mfg         Processes & Systems Lab (1)         Engineering Graphics (3)         Sustainable Lean Production (A1,B4,G)         Statics         Advanced Engineering Mathematics         Elementary Physics II (A1)         Elementary Physics II Lab (A1)         Junior Year Fall Semester         Description         Financial Accounting         Engineering Materials         Probability & Statistics for Engineers         Computer Tools for Engineers         Deterministic Systems         Deterministic Systems         Intro To Human Factors & Ergonomics         Production System Design         Production System Design         Professional Elective****	Freshman Year Fall SemesterDescriptionCrGeneral Chemistry Lec I (A1)3General Chemistry I Lab1Foundations of Engineering I (A4)1Calculus I (A1, B3)4General Education Outcome(s)*6DescriptionCrMfg Processes & Systems (3), Mfg Processes & Systems (3), Mfg Processes & Systems (3), Mfg Processes & Systems (3), Mfg Processes & Systems (3), Mfg Sustainable Lean Production (A1,B4,G)3Statics3Advanced Engineering Mathematics3Elementary Physics II (A1)3Elementary Physics II Lab (A1)1Junior Year Fall Semester0DescriptionCrFinancial Accounting3Engineering Materials3Probability & Statistics for Engineers3Deterministic Systems3Deterministic Systems3Intro To Human Factors & Ergonomics3Professional Elective****3Graduate Course3	Freshman Year Fall SemesterDescriptionCrGeneral Chemistry Lec I (A1)3General Chemistry I Lab1Foundations of Engineering I (A4)1Calculus I (A1, B3)4General Education Outcome(s)*615Sophomore Year Fall SemesterDescriptionCrMfg Processes & Systems (3), Processes & Systems Lab (1)3-4Engineering Graphics (3)3Sustainable Lean Production (A1,B4,G)3Statics3Advanced Engineering Mathematics3Elementary Physics II (A1)1Ilementary Physics II Lab (A1)1Junior Year Fall Semester0DescriptionCrFinancial Accounting3Engineering Materials3Orputer Tools for Engineers3Deterministic Systems3Deterministic Systems3Intro To Human Factors & Ergonomics3Production System Design3Production System Design3Production System Design3Production System Design3Professional Elective****3Graduate Course3	Freshman Year Fall Semester         Cr         I           General Chemistry Lec I (A1)         3         I           General Chemistry I Lab         1         I           Foundations of Engineering I (A4)         1         I           Calculus I (A1, B3)         4         I           General Education Outcome(s)*         6         I           General Education Outcome(s)*         6         I           Sophomore Year Fall Semester         I         I           Mfg Processes & Systems (3), Mfg Processes & Systems Lab (1)         3-4         I           Engineering Graphics (3)         3-4         I         I           Statics         3         I         I         I           Advanced Engineering Mathematics         3         I         I           Ilementary Physics II (A1)         1         I         I           Junior Year Fall Semester         I         I         I           Financial Accounting         3         I         I         I           Engineering Materials         3         I         I         I         I           Torobability & Statistics for Engineers         3         I         I         I         I           Compute	Freshman Year Fall SemesterDescriptionCrCourse CodeGeneral Chemistry Lec I (A1)3EGR 106General Chemistry I Lab1MTH 142 +Foundations of Engineering I (A4)1PHY 203Calculus I (A1, B3)4PHY 273General Education Outcome(s)*6ISophomore Year Fall SemesterCDescriptionCrCourse CodeMfg Processes & Systems (3), Mfg Processes & Systems Lab (1)3-4EGR 316GEngineering Graphics (3)3-4ISE 240 and 241 or MCE 201or MCE 201Statics3IMTH 243 +Advanced Engineering Mathematics3IElementary Physics II (A1)3IElementary Physics II Lab (A1)1Ibinor Year Fall SemesterCourse CodeFinancial Accounting3ISE 304Engineering Materials3ISE 312Probability & Statistics for Engineers3ISE 333Computer Tools for Engineers3ISE 333Computer Tools for Engineers3ISE 334Deterministic Systems3ISE 334Deterministic Systems3ISE 402Intro To Human Factors & Ergonomics3ISE 402Intro To Human Factors & Ergonomics3ISE 4xx/5xx	Freshman Year Fall Semester       Freshman Year Spring Semester         Description       Cr       Course Code       Description         General Chemistry Lea       1       MTH 142 +       Calculus II (83)         Foundations of Engineering I (A4)       1       PHY 203       Elementary Physics I (A1)         Calculus I (A1, B3)       4       PHY 273       Elementary Physics Lab I (A1)         Calculus I (A1, B3)       4       PHY 273       Elementary Physics Lab I (A1)         General Education Outcome(s)*       6       General Education Outcome(s)*       6         Sophomore Year Fall Semester       Sophomore Year Spring Semester       Sophomore Year Spring Semester         Processes & Systems (3), Mfg       -       -       EGR 316G       Engineering Ethics (A3, C1, G)         Mig Processes & Systems (3), Mfg       -       -       -       -       -         Sustainable Lean Production (A1, B4, G)       3       IBE 240 and 241       Mg Processes & Systems (3), Mfg       -