



Student Name and ID Number \_\_\_\_\_

Required Courses: 14 Credits	Credits
ENG 1505 Introduction to Systems Engineering (1) <i>Prereqs: ENG1001 or ENG1101 or CS1121 or CS1131</i>	
ENG 2505 Low Fidelity Systems Modeling (3) <i>Prereqs: (ENG1505(C) and MA2160 and (ENG1102 or CS1121 or CS1131))</i>	
ENG 3505 Modeling Laboratory for Sustainable Systems (1) <i>Prereqs: (ENG1505(C) and MA2160 and (ENG1102 or CS1121 or CS1131))</i>	
ENG 4300 Project Management (3) <i>Prereqs: BUS2100 or CEE3710 or MA2720 or MA3710 or EE3180 or BE2100</i>	
ENG 4505 Systems Analysis, Modeling, and Design (3) <i>Prereqs: ENG3505 and ENG4510</i>	
ENG 4510 Sustainable Futures I (3) <i>Prereqs: none</i>	

Elective Courses: Select 6 credits from one of the following groups	Credits
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A. Environmental Engineering and Sustainability	
CEE 3501 Environmental Engineering Fundamentals (3) <b>OR</b> CEE 3503 Environmental Engineering (3) <i>Prereqs to either course: MA2160 and CH1112 or (CH1150 and CH1151)</i>	
<b>AND</b> CEE 4506 Application of Sustainability Principles to Engineering Practice (3) <i>Prereqs: CEE3501 or CEE3503</i>	

B. Supply Chain, Logistics, Management	
OSM 3150 Intro to Supply Chain Mgmt (3) <i>Prereq: OSM3000</i> <b>OR</b> OSM 4700 Logistics and Transportation Mgmt (3) <i>Prereqs: (MA2710 or MA2720 or MA3710 or CEE3710) and (MA1135 or MA1160 or MA1161)</i>	
<b>AND</b> OSM 3600 Procurement and Supply Management (3) <i>Prereq: none</i>	

C. Design, LEAN, and Six Sigma	
MEEM 4650 Quality Engineering (3) <i>Prereqs: MA3710 or MA3720 or MA2710 or MA2720</i> <b>OR</b> OSM 4650 Six Sigma Fundamentals (3) <i>Prereqs: MA2710 or MA2720 or MA3710 or MA3720 or BUS2100 or CEE3710</i> <b>OR, take all 3 credits below:</b>	
ENT 3959 Fund of Six Sigma I (1) <i>Prereqs: none</i>	
ENT 3967 Design for Six Sigma (1) <i>Prereqs: none</i>	
ENT 3982 Continuous Improvement Using LEAN Principles (1) <i>Prereqs: none</i>	
<b>AND</b>	
HON 3300 Innovation through Human Centered Design (3) <i>Prereqs: none</i>	
<b>OR, select 3 credits from the following</b>	
ENT 3953 Ignite: Ideate, Innovate, Create! (1) <i>Prereqs: none</i>	
ENT 3958 Ethics in Engineering Design and Implementation (1) <i>Prereqs: ENG1101 or (ENG1001 and ENG1100)</i>	
ENT 3963 Deliver: Explore, Develop, Execute! (3) <i>Prereqs: none</i>	
ENT 3983 The Culture of Continuous Improvement (1) <i>Prereqs: none</i>	

<b>Total Credits Required = 20</b>
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Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Academic Advisor Signature \_\_\_\_\_ Date \_\_\_\_\_