

Name \_\_\_\_\_

ID# \_\_\_\_\_

<u>Required Prerequisite Courses</u>	<u>Where Completed</u>	<u>Course #</u>	<u>Title</u>
Computing	_____	_____	_____
Probability & Statistics	_____	_____	_____
Engr. Economy	_____	_____	_____

**REQUIRED COURSES**

<u>Semester</u>	<u>Course</u>	<u>(Prerequisites)</u>
_____	ISE 514 – Advanced Production Planning and Scheduling (3, FaSm)	
_____	ISE 515 – Engineering Project Management (3, FaSpSm)	

Select at least one from the following five areas:

**Systems Design:**

- \_\_\_\_\_ ISE 510 – Engineering Analysis of a Manufacturing Enterprise (3, Fa)
- \_\_\_\_\_ ISE 525 – Designs of Experiments *prerequisites:* ISE 225 ) (3, FaSp)
- \_\_\_\_\_ ISE 527 – Quality Management for Engineers (3, FaSp)
- \_\_\_\_\_ ISE 576 – Industrial Ecology: Technology-Environment Interaction (3, Fa)
- \_\_\_\_\_ SAE 541 – Systems Engineering Theory and Practice (3, FaSpSm)
- \_\_\_\_\_ SAE 549 – Systems Architecting (3, FaSpSm)

**Production:**

- \_\_\_\_\_ ISE 511 – Computer Aided Manufacturing (3, Sp)
- \_\_\_\_\_ ISE 513 – Inventory Systems (3, Sp)
- \_\_\_\_\_ ISE 517 – Modern Enterprise Systems (3, FaSp)
- \_\_\_\_\_ SAE 551 – Lean Operations (3, FaSp)

**Systems Performance:**

- \_\_\_\_\_ ISE 544 – Management of Engineering Teams (3, FaSpSm)
- \_\_\_\_\_ ISE 564 – Performance Analysis (3, Irr)
- \_\_\_\_\_ ISE 570 – Human Factors in Engineering (3, Sp)

**Information Systems:**

- \_\_\_\_\_ ISE 580 – Advanced Concepts in Computer Simulation (*prerequisites:* ISE 220, 325, 435) (3, Sp)
- \_\_\_\_\_ ISE 582 – Web Technology for Industrial Engineering (*prerequisites:* ISE 382) (3, Irr)
- \_\_\_\_\_ ISE 583 – Enterprise Wide Information Systems (3, FaSp)

**Quantitative Methods:**

- \_\_\_\_\_ ISE 532 –Network Flows (*prerequisites:* ISE 330 or 536) (3, Sp)
- \_\_\_\_\_ ISE 536 –Linear Programming and Extensions (*prerequisites:* Math 225 or EE 441) (3, Fa)
- \_\_\_\_\_ ISE 538 – Elements of Stochastic Processes (3, Fa)
- \_\_\_\_\_ ISE 563 – Financial Engineering (3, Sp)

**Advisor Approved Electives (9 units):**

Date of Advisement      Approval

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____