

Name \_\_\_\_\_

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

**Required Prerequisite Course or equivalent:** Engr. Economy (eg ISE 460). Deficiency courses, if taken at the 400 level, may be counted toward 28 units as general electives with adviser approval.

**REQUIRED COURSES (6 units)**

Semester	Course	Prerequisite
	ISE 445 - Technology Development and Implementation (4, Fa)	
	ISE 501 - Innovative Conceptual Design for New Product Development (4, Sp)	

**MSPDE Management Specialization**

**Product Development Systems: (8 units)**

Semester	Course	Prerequisite
	ISE 515 - Engineering Project Management (4, FaSpSm)	
	ISE 544 - Leading and Managing Engineering Teams (4, FaSpSm)	
	<b>OR</b>	
	ISE 585 - Strategic Management of Technology Innovation (4, FaSp)	

**Technical Electives: (8 units minimum)**

Semester	Course	Prerequisite
	BAEP 557 - Technology Commercialization (3, Sp)	
	AME 504 - Mechatronic Systems Engineering (4, Sp)	
	AME 510 - Advanced Computation Design and Manufacturing (4, Sp)	
	ISE 514 - Advanced Production Planning and Scheduling (4,(Fa,Su)	
	ISE 525 - Design of Experiments (4, Sp)	
	ISE 527 - Quality Management for Engineers (4, FaSp)	
	ISE 544 - Leading and Managing Engineering Teams (4, FaSpSm) **	
	CE 576 - Invention and Technology Development (3,Sp)	
	ISE 561 - Economic Analysis of Engineering Projects (4, FaSp)	<b>ISE 500</b>
	ISE 562 - Decision Analysis (4, FaSp)	
	ISE 580 - Performance Analysis and Simulation (4, FaSp)	
	ISE 583 - Enterprise Wide Information Systems (4, FaSp)	
	ISE 585 - Strategic Management of Technology (4, FaSp)**	
	ISE 610 - Advance Design of Experiments and Quality Engineering (3, Fa)	
	SAE 541 - Systems Engineering Theory and Practice (3, FaSpSm)	
	SAE 549 - Systems Architecting (3, FaSp)	

**\*\*Cannot double count with the Management Specialization course\*\***

**Advisor Approved Electives (4 units)**

**Master of Science in Product Development Engineering  
Total Minimum Units: 28**