Name _____   ID#_____

A total of 27 units is required for this degree.

Required Prerequisite Courses   **Where Completed**   **Course #**   **Title**_____
Engr. Economy _____   _____   _____   _____

REQUIRED COURSES

   Semester   Course   (Prerequisites)_____

Required courses (6 units):

_____   ISE 501 – Innovative Conceptual Design for New Product Development (3, FaSp)

_____   ISE 545 – Technology Development and Implementation (3, Fa)

Product Development Systems:

_____   ISE 515 – Engineering Project Management (3, FaSpSm)

_____   ISE 544 – Leading and Managing Engineering Teams (3, FaSp)

Technical Electives (6 units):

_____   BAEP 557 – Technology Commercialization (3, Sp)

_____   DSCI 552 – Machine Learning for Data Science (4, FaSp)

_____   ISE 510 – Advanced Computation Design and Manufacturing (3, Sp)

_____   ISE 511L – Mechatronic Systems Engineering (3, Sp)

_____   ISE 514 – Advanced Production Planning and Scheduling (3,(Fa,Su)

_____   ISE 525 – Design of Experiments (3) (Sp)

_____   ISE 527 – Quality Management for Engineers (3) (FaSp)

_____   ISE 555 –Invention and Technology Development (3,Sp)

_____   ISE 561 – Economic Analysis of Engineering Projects (*prerequisites* **ISE 500**) (3, FaSp)

_____   ISE 567 – Collaborative Engineering Principles and Practice (3, Sp)

_____   ISE 580 – Performance Analysis and Simulation (*prerequisites* ISE 220,325, 435) (3, Sp)

_____   ISE 583 – Enterprise Wide Information Systems (3, FaSp)

_____   ISE 585 – Strategic Management of Technology (3, 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)

Three Electives (9 units):   Date of Advisement   Approval

_____   _____   _____   _____

_____   _____   _____   _____

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Master of Science in Product Development Engineering