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, Sp)

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

Product Development Systems: (6 units)

_____   ISE 515 Engineering Project Management (3, FaSpSm)

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

***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)

_____   CE 576 Invention and Technology Development (3,Sp)

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

_____   ISE 562 Decision Analysis (3, FaSp)

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

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

_____   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

_____   _____   _____   _____

_____   _____   _____   _____

_____   _____   _____   _____

Master of Science in Product Development Engineering
(Product Development Systems Track)