

# INDUSTRIAL ENGINEERING (SYSTEMS ENGINEERING) - MASTER OF ENGINEERING IN INDUSTRIAL ENGINEERING (ONLINE)

Prefix	Title	Credits
<i>Systems Engineering Program-Specific Courses</i> <sup>1</sup>		18
I E 456	Large Scale Systems Engineering	
I E 459	Systems Thinking and Decision Making	
I E 451	Engineering Economy	
I E 466	Reliability	
I E 561	Advanced Safety Engineering	
I E 563	Topics in Engineering Administration	
<i>Electives (12 credits from the following)</i>		12
Track 1 – Modeling, Simulation & Decision		
I E 533	Linear Programming	
I E 535	Discrete Optimization	
I E 567	Design and Implementation of Discrete-Event Simulation	
Track 2 – Systems Analysis		
I E 515	Stochastic Processes Modeling	
I E 522	Queuing Systems	
I E 524	Advanced Production and Inventory Control	
Track 3 – Data Analysis and Design		
I E 460	Evaluation of Engineering Data	
I E 525	Systems Synthesis and Design	
I E 545	Characterizing Time-Dependent Engineering Data	
Track 4 – Electrical Engineering Applications		
E E 460	Space System Mission Design and Analysis	
E E 590	Selected Topics	
<i>Optional Electives (3 credits)</i> <sup>2</sup>		
A 500-level course in the designated field, subject to the consent of your advisor and the course instructor: IE, EE, ME, AE, ET, CE, CHME, ACCT, BCIS, BFIN, MGMT, ECON, CSCI, AST, and STAT		
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Masters of Systems Engineering required course.

<sup>2</sup> The optional courses outside the department and/or the college should be previously approved by the academic advisor. See your advisor for more detailed information about selecting elective courses.