

Proposed MS ISE Degree Program

Required Courses - 12 Units

- ISE 513 Logistics and Inventory Systems
- ISE 514 Advanced Production Planning and Scheduling
- ISE 515 Engineering Project Management

Group A (4 units required) Quantitative Techniques

Select one course

- ISE 530 Optimization Methods for Analytics
- ISE 536 Linear Programming and Extensions
- ISE 538 Markov Models for Performance Analysis
- ISE 539 Stochastic Elements of Simulation
- ISE 580 Performance Analysis with Simulation

Group B (4 units required) Quality and Operations

Select one course

- ISE 506 Lean Operations
- ISE 525 Design of Experiments
- ISE 527 Quality Management for Engineers
- ISE 583 Enterprise Wide Information Systems

Group C (4 units required) Engineering Management

Select one course

- ISE 561 Economic Analysis for Engineering Projects
- ISE 562 Decision Analysis
- ISE 564 Performance Analysis
- ISE 570 Human Factors in Engineering

Advisor Approved Elective (4 units required)

Total Minimum Units: 28