MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING (MSIE)

DEGREE REQUIREMENTS

· A minimum of 30 credit hours, of which at least 16 hours must be at the 6000 level
· Non-thesis option:
  – 30 hours of coursework, including three core courses, five IE electives, and two general electives
· Thesis option:
  – At least 24 hours of coursework, including three core courses and five IE elective courses
  – A minimum of six thesis hours
  – A formal thesis proposal and a formal thesis defense
  – Acceptance of at least one refereed conference or journal paper
· A minimum GPA of 3.0/4.0 must be maintained
· No grade of C- or below will be accepted toward the degree

Core courses
ESI 6410 Optimization in OR
ESI 6247 Statistical Design Models
ESI 6340 Probabilistic Systems Analysis

IE elective courses (select any 5 courses from the list)
EIN 5350 Technology & Finance
ESI 5236 Reliability Engineering
ESI 5306 OR for Engineering Management
ESI 5552 Computer Simulation
EIN 6145 Project Management
EIN 6935 Lean Six Sigma
ESI 6324 Engineering the Supply Chain
EIN 6336 Production Control Systems
ESI 6448 Integer Programming
EIN 6936 Nonlinear Programming
ESI 6447 Large-scale Optimization
EIN 6319 Work Design & Productivity
EIN 6112 Information Systems Design
EIN 6935 Statistical Quality Control
EIN 6934 Engineering Analytics I
EIN 6934 Engineering Analytics II
EIN 6934 Advanced Analytics I
ESI 6635 Advanced Analytics II

General elective courses
Any College of Engineering 5000+ level course, including IMSE courses, except for the courses listed as IE elective courses above (examples include: EIN 5182 Principles of Engineering Management, EIN 6386 Management of Technological Change, EIN 6934 Systems Integration, EIN 6936 Advanced Lean Six Sigma, EIN 6178 ISO 9000/14000, EIN 6179 Advanced TQM Methods, and others).

FREQUENTLY ASKED QUESTIONS (FAQs)
Please visit http://www.usf.edu/engineering/imse/graduate/msie.aspx

1 MSIE students holding the BSIE degree from IMSE: please contact the graduate director for additional information.
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