ISME Concentrations and Courses

- Data Analytics
  - IME 734 Introduction to Data Mining and Analytics
  - IME 780AN Big Data Analytics in Engineering
  - IME 780AP Neural Networks and Machine Learning
  - IME 869 Bayesian Statistics and Uncertainty Quantification
  - IME 880Y Forecasting and Analytics
  - CS 697AB Machine Learning
  - CS 771 Artificial Intelligence
  - CS 898AX Foundations of Data Science
- Operations Research and Systems Engineering
  - IME 550 Operations Research I
  - IME 650 Operations Research II
  - IME 780AG Nonlinear Programming
  - IME 851 Stochastic Modeling and Analysis
  - IME 664 Engineering Management
  - IME 764 Systems Engineering and Analysis
- Production and Supply Chain Analytics
  - IME 553 Production Systems
  - IME 563 Facilities Planning and Design
  - IME 783 Supply Chain Management
  - IME 767 Lean Manufacturing
  - IME 880K Advanced Facilities and Material Handling
  - IME 883 Supply Chain Analytics
- Quality and Reliability
  - IME 554 Statistical Quality Control
  - IME 754 Reliability and Maintainability Engineering
  - IME 755 Design of Experiments
  - IME 854 Quality Engineering
- Manufacturing Engineering and Automation
  - IME 561 Applied Control Systems
  - IME 558 Manufacturing Methods and Materials II
  - IME 676 Aircraft Manufacturing
  - IME 758 Analysis of Manufacturing Processes
  - IME 761 Robot Programming and Applications
  - IME 775 Computer Integrated Manufacturing
  - IME 788 Rapid Prototyping and 3D Printing
- Human Systems Engineering
  - IME 549 Industrial Ergonomics
  - IME 749 Ergonomic Assessment Methods
  - IME 759 Ergonomic Interventions
  - BME 752 Applied Human Biomechanics
  - BME 757 Clinical Biomechanics Instrumentation
  - ME 709 Injury Biomechanics
  - PHS 808 Principles of Epidemiology
  - PHS 816 Environmental Health
  - PSY 920 Psychological Principles of Human Factors