Industrial Engineering – Professional Electives

Purpose of Professional Electives

Professional electives are used to customize and tailor your degree program towards your career interests. In order to deepen your expertise in industrial and systems engineering, you should select at least three advanced level industrial engineering courses as professional electives.

- ISEE-582 Lean Six Sigma Fundamentals
- ISEE-626 Lean System Design
- ISEE-640 Computer-Aided Design and Manufacturing
- ISEE-684 Engineering and the Developing World
- ISEE 701 Linear Programming
- ISEE 702 Integer and Nonlinear Programming
- ISEE 703 Supply Chain Management
- ISEE 704 Logistics Management
- ISEE 708 Simulation Analysis
- ISEE 711 Advanced Simulation
- ISEE 720 Production Control
- ISEE 728 Production Systems Management
- ISEE 730 Biomechanics
- ISEE 731 Advanced Topics in Human Factors and Ergonomics
- ISEE 732 Systems Safety Engineering
- ISEE 734 Graduate Engineering Psychology
- ISEE 740 Design for Manufacture and Assembly
- ISEE 741 3D Printing
- ISEE 742 Metal and Composite Additive Manufacturing
- ISEE 743 Personalized 3D Printing
- ISEE 750 Systems and Project Management
- ISEE 752 Decision Analysis
- ISEE 760 Design of Experiments
- ISEE 761 Forecasting Methods
- ISEE 770 Design Project Leadership
- ISEE 771 Engineering of Systems I
- ISEE 772 Engineering of Systems II
- ISEE 773 Engineering Value Creation
- ISEE 785 Fundamentals of Sustainable Engineering
- ISEE 786 Lifecycle Assessment
- ISEE 787 Design for the Environment
- ISEE 789 Special Topics
- ISEE 799 Independent Study