Industrial & Systems Engineering electives list

Industrial & Systems Engineering – Standard Option

ISE Electives:
- Any 4000-level ISE course not required in the curriculum, and any ISE course 5000-level and above. All 5000-level courses will require instructor permission. Check ClassNav.ou.edu each semester for course offerings.

ISE Technical Electives
- Any course in the Gallogly College of Engineering that is 3000-level or above may be used as a technical elective.
- ROTC students may use any 3000-level and above AERO, MS, or NS course.
- Additional approved courses:
    - ACCT 3313 Cost Accounting
    - FIN 3603 Advanced Corporate Finance
    - MGT 3363 Organizational Behavior
    - SCM 3223 Logistics Management
    - ECON 4223 Econometric Analysis
    - CS 2413 Data Structures
    - ENGL 3153 Technical Writing (email fyc@ou.edu for permission)

*For the Price College of Business courses, non-business major students cannot enroll in a course until one week before classes start.

Math Electives
- MATH 3333 Linear Algebra (strongly recommended)
- MATH 3113 Intro to Differential Equations
- MATH 2513 Discrete Math Structures
- MATH 3413 Physical Math I
- MATH 3513 Foundations of Analysis
- MATH 3613 Modern Geometry
- MATH 4433 Intro to Analysis I

Industrial & Systems Engineering – Analytics Option
- This option includes a built-in Computer Science minor.
- Students will take one ISE Elective, which includes any 4000-level ISE course not required in the curriculum, and any ISE course 5000-level and above. All 5000-level courses will require instructor permission. Check ClassNav.ou.edu each semester for course offerings.
- Math Elective requirement met with MATH 2513 Discrete Math Structures.
- CS 3203 Software Requirements and Specifications is a required Fall-only course (formerly CS 3202).
- CS 4513 Database Management Systems (Fall) or CS 3053 Human Computer Interaction (Spring) are strongly suggested for remaining the CS elective because they bridge the gap between CS and ISE.
    - CS 3203, 3053, and 4513 prerequisites include: CS 2413 Data Structures and MATH 2513 Discrete Math Structures.

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