

Industrial & Systems Engineering

ISEN TECHNICAL ELECTIVES

Catalog 135

12 hours required technical electives
6 hours must be ISEN courses

- ISEN 333 -- Project Management for Engineers. Prerequisite: Junior or senior classification in College of Engineering. Cross-listed with CVEN 333 and MEEN 333.
- ISEN 411 -- Engineering Management Techniques. Prerequisite: Senior classification in Industrial Engineering.
- ISEN 414 -- Total Quality Engineering. Prerequisite: ISEN 314.
- ISEN 421 -- Operations Research II. Prerequisite: MATH 304 or equivalent; STAT 212.
- ISEN 425 -- Design & Analysis of Industrial Systems w/ Simulation. Prerequisite: ISEN 303 and 424.
- ISEN 430 -- Human Factors and Ergonomics. Prerequisite: Junior or Senior classification.
- ISEN 455 -- Principles of Programmable Automation. Prerequisite: ISEN 316; ISEN 416 or registration therein.
- ISEN 485 -- Directed Studies. Prerequisite: Senior classification in Industrial Engineering.
- ISEN 489 -- Special Topics in..... Prerequisite: Approval of instructor.
- ECON 311 -- Money & Banking. Prerequisite: ECON 203.
- ECON 322 -- Applied Microeconomic Theory. Prerequisite: ECON 202. May not be counted toward a major in Economics.
- ECON 323 -- Microeconomics Theory. Prerequisite: ECON 202; MATH 142.
- ECON 410 -- Macroeconomics Theory. Prerequisite: ECON 203.
- ECON 425 -- The Organization of Industry. Prerequisite: ECON 323.
- ECON 459 -- Games and Economic Behavior. Prerequisite: ECON 323; MATH 142 or equivalent or approval of instructor.
- ENGR 385X3 -- Problem for Co-op Students. Prerequisite: Approval of department head.
- FINC 409 -- Survey of Finance Principals. Prerequisite: ACCT 209 or 229; Junior classification; for students other than business or agribusiness.
- MATH 407 -- Complex Variables. Prerequisite: MATH 221 or equivalent.
- MATH 409 -- Advanced Calculus I. Prerequisite: MATH 220 or 221.
- MATH 411 -- Mathematical Probability. Prerequisite: MATH 221 or equivalent.
- MATH 414 -- Fourier Series and Wavelets. Prerequisite: MATH 222 or 304 or 311.
- MATH 417 -- Numerical Analysis I. Prerequisite: MATH 222, 304, or 311; MATH 308 or equivalent; ability to program.
- MATH 423 -- Linear Algebra II. Prerequisite: MATH 222 or 304 or approval of instructor.
- MATH 425 -- The Mathematics of Contingent Claims. Prerequisite: MATH 172 or equivalent; MATH 308 or equivalent; basic probability.
- MATH 442 -- Mathematical Modeling; Prerequisite: MATH 304 and 308 or equivalent.
- MATH 467 -- Modern Geometry. Prerequisite: MATH 222 or 304.
- MEEN 475 -- Materials in Design. Prerequisite: MEEN 360; CVEN 305.
- MGMT 309 -- Survey of Mgmt. Prerequisite: Junior classification; for students other than business or agribusiness majors.
- MKTG 409 -- Introduction to Marketing. Prerequisite: Junior classification; for students other than business or agribusiness majors.
- PSYC 315 -- Social Psychology. Prerequisites: PSYC 107; PSYC 203 and 204 or Junior classification.
- SENG 310 -- Industrial Hygiene Engineering. Prerequisite: CHEM 107; MATH 308; PHYS 208; or approval of instructor.
- SENG 312 -- System Safety Engineering. Prerequisite: Junior classification.
- SENG 321 -- Industrial Safety Engineering. Prerequisite: Junior classification.
- SENG 455 -- Process Safety Engr. Prerequisite: Senior classification in any Engineering major. Cross-listed w/ CHEN 455.
- SENG 477 -- Air Pollution Engr. Prerequisite: ENGR 214 or equivalent. Cross-listed w/ BAEN 477 and MEEN 477.
- STAT 414 -- Mathematical Statistics 1. Prerequisite: MATH 221, 251 or 253.