BSE – Industrial & Systems Engineering (ISYS) Program – Entering Class of 2012

**FRESHMAN**
- ENGR 1010 (2) Introduction to Engineering
- ENGR 1016 (2) Intro to Eng Design
- ENGR 2000 (1) Engineering Design/PM I
- ENGR 2050 (3) Computer Applications in Engineering
- MATH 2151 (3) Calculus I
- CHEM 1150 (1) General Chemistry
- BIOL 1050/1051 (4) General Chemistry
- ENGL 1100 (3) Composition
- ENGL 1200 (3) Composition
- MATH 3307 (3) Engineering Statistics

**SOPHOMORE**
- ENGR 2022 (3) Statics
- ENGR 2070 (3) Materials and Processes
- MATH 2152 (3) Calculus II
- CHEM 2350 (3) University Physics I
- ENGR 2000 (1) Engineering Design/PM I
- ENGR 2050 (3) Computer Applications in Engineering
- PHYS 2350 (4) University Physics I
- PHYS 2360 (4) University Physics II
- MATH 2152 (3) Calculus II
- MATH 3307 (3) Engineering Statistics
- C: MATH 2154 or PHYS 2350
- MATH 2154 (4) Linear Algebra
- ENGR 2450 (3) Dynamics
- ENGR 2500 (3) Circuits and Measurements
- ENGR 2514 (4) Circuit Analysis
- ENGR 3024 (3) Mechanics of Materials
- ENGR 3800 (3) Quality Control for Engineers
- ISYS 3060 (3) Systems Optimization
- ISYS 3010 (3) Management and Systems

**JUNIOR**
- ENGR 2512 (2) Thermodynamics
- ENGR 3000 (2) Engr. Design & PM II
- ENGR 3010 (3) Found of Ind. & Systems Engineering
- ENGR 3012 (4) Thermal and Fluid Systems
- ENGR 3012 (4) Thermal and Fluid Systems
- ISYS 3012 (4) Work Measurement and Human Factors
- EXSS 1000 (1) Life and Health Insurance
- ISYS 4020 (3) Production Systems and Facilities Planning
- ISYS 4065 (3) Discrete Systems Simulation
- ISYS 3010 (3) Found of Ind. & Systems Engineering

**SENIOR**
- ENGR 4010 (2) Senior Capstone Design I
- ENGR 4020 (2) Senior Capstone Design II
- ISYS 4010 (3) Work Measurement and Human Factors
- ISYS 4020 (3) Production Systems and Facilities Planning
- ISYS 4065 (3) Discrete Systems Simulation
- ISYS 3010 (3) Found of Ind. & Systems Engineering
- MATH 2153 (3) Calculus III
- MATH 3307 (3) Engineering Statistics
- MATH 2154 (4) Linear Algebra
- ISYS 4020 (3) Production Systems and Facilities Planning
- ISYS 4065 (3) Discrete Systems Simulation
- ISYS 3010 (3) Found of Ind. & Systems Engineering

**Social Sciences Elective**
- ENGL 1100 (3) Composition
- ENGL 1200 (3) Composition
- MATH 3307 (3) Engineering Statistics
- C: MATH 1083 or higher
- MATH 1083 or Placement Test
- MATH 2152 (3) Calculus II
- MATH 2154 (4) Linear Algebra
- MATH 3307 (3) Engineering Statistics
- ISYS 3010 (3) Found of Ind. & Systems Engineering
- ISYS 4010 (3) Work Measurement and Human Factors
- ISYS 4020 (3) Production Systems and Facilities Planning
- ISYS 4065 (3) Discrete Systems Simulation
- ISYS 3010 (3) Found of Ind. & Systems Engineering

**Note:** This chart is for planning purposes only. It is the student’s responsibility to ensure that requirements as detailed in the Undergraduate Catalog are met.

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