BSE – Industrial & Systems Engineering (ISYS) Program

**FRESHMAN**
- ENGR 1012 (2) Engineering Graphics
- ENGR 1016 (2) Introduction to Engineering
- MATH 2151 (3) Calculus I
- CHEM 1150 (4) General Chemistry
- ENGL 1100 (3) Composition

**Sophomore**
- ENGR 2022 (3) Statics
- ENGR 2000 (1) Engineering Design/PM I
- ENGR 2050 (3) Computer Applications in Engineering
- ENGR 2070 (3) Materials and Processes
- PHYS 2350 (4) University Physics I
- MATH 2152 (3) Calculus II
- MATH 3307 (3) Engineering Statistics

**Junior**
- ENGR 2450 (3) Dynamics
- ENGR 2514 (4) Circuit Analysis
- PHYS 2360 (4) University Physics II
- ENGR 2000 (1) Engineering Design/PM I
- ENGR 2070 (3) Materials and Processes
- MATH 2154 (4) DEQ and Linear Algebra
- ENGR 3420 (2) Engineering Economics
- ENGR 3000 (2) Senior Capstone Design I
- ISYS 3010 (3) Found. of Ind. & Systems Engineering

**Senior**
- ENGR 3024 (3) Mechanics of Materials
- ENGR 3050 (3) Sensors, Measurements And Controls
- ENGR 3000 (2) Senior Capstone Design II
- ISYS 3060 (3) Systems Optimization
- ISYS 3010 (3) Found. of Ind. & Systems Engineering
- ISYS 4010 (3) Work Meas. & Human Factors
- ISYS 4065 (3) Discrete Systems Simulation
- ENGR 3800 (3) Quality Control for Engineers
- ENGR 3012 (4) Thermal and Fluid Systems
- ISYS 4020 (3) Production Systems and Fac. Planning
- ENGR 3420 (2) Engineering Economics
- ISYS 4010 (3) Work Meas. & Human Factors
- ENGR 3800 (3) Quality Control for Engineers

**Math/Science**
- MATH 2151 (3) Calculus I
- MATH 2152 (3) Calculus II
- CHEM 1150 (4) General Chemistry
- PHYS 2350 (4) University Physics I
- PHYS 2360 (4) University Physics II

**General**
- ENGL 1100 (3) Composition
- ENGL 1200 (3) Composition
- MATH 3307 (3) Engineering Statistics
- ENGR 3300 (2) Engineering Economics
- ECON 2113 (3) Microeconomics
- HLTH 1000 (2) Health in Modern Society
- EXSS 1000 (1) Lifetime Physical Activity
- Social Sciences Elective (3)
- Humanities/ Fine Arts Elective (3)
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- Social Sciences Elective (3)

**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.