Luddy School of Informatics, Computing, and Engineering Bulletin 2022-2023

INDIANA UNIVERSITY

Undergraduate Programs

Degree Programs

BS in Intelligent Systems Engineering

Luddy Degree and Major Requirements

**** Equivalent honors versions of regular courses may substitute for all requirements. Please see specific course descriptions, posted in respective bulletin, for prerequisites and other pertinent information. ****

The Luddy School of Informatics, Computing, and Engineering student database (SAMS) enables students to check their academic degree information, add/drop minors, add/change specializations/cognates/concentrations and apply to graduate. Students are responsible for these actions.

Luddy Degree Requirements

Diversity in the United States (3 cr.)

This is a General Education shared goal required by all schools. Luddy students must check the listings for courses at CASE requirements for the College of Arts and Sciences. The course must be taken through the Indiana University Bloomington campus or an IU administered or IU co-sponsored Overseas Study program.

Major Requirements

A major GPA of at least 2.000 for all courses taken in the major is required (all major course attempt grades are included).

A minimum grade of C- or higher is required for a course to fulfill a requirement in the major.

12 hours in the major must be completed on the Bloomington campus.

Students must complete the following:

Natural and Mathematical Sciences

Must complete:

- MATH-M 211 Calculus I
- MATH-M 212 Calculus II
- PHYS-P 221 Physics I
- PHYS-P 222 Physics II

Select 1 course from the following:

- MATH-M 365 Introduction to Probability and Statistics
- STAT-S 350 Introduction to Statistical Inference
- 300 level statistics equivalent with approval of DUGS

Core courses

Must complete:

- ENGR-E 101 Innovation and Design
- ENGR-E 110 Engineering Computing Architectures
- ENGR-E 111 Software Systems Engineering
- ENGR-E 201 Computer Systems Engineering
- ENGR-E 221 Intelligent Systems I
- ENGR-E 225 Introduction to Circuits
- ENGR-E 250 Systems, Signals, and Control

- ENGR-E 299 Engineering Professionalization and Ethics
- ENGR-E 332 Introduction to Modeling and Simulation
- ENGR-Y 395 Career Development for ISE Majors
- MATH-E 449 Advanced Undergraduate Engineering Mathematical Methods

Each semester Undergraduate Research or Internship will be available.

Capstone

Must complete:

- ENGR-E 490 Engineering Capstone Design I
- ENGR-E 491 Engineering Capstone Design II

Concentration Area Courses

Students should, in consultation with their academic advisor, choose a concentration area. Students must receive a minimum grade of C– in each course. Please consult the concentration area section of this bulletin for the list of concentration areas.

Students may use up to 12 hours of graduate level coursework to count towards their undergraduate degree.

Academic Bulletins

- Indiana University
- IU Bloomington