



Accelerated Undergraduate/Graduate Degree In Industrial and Systems Engineering

The Grado Department of Industrial and Systems Engineering has a strong and diverse master's program that provides opportunities for study in specific areas in industrial and systems engineering. For well qualified students in a bachelor's degree program in the College of Engineering at Virginia Tech, the ISE department offers the opportunity to begin the graduate coursework in the final year of their bachelor's studies. Courses taken as part of the program can double count for both the bachelor's degree and the graduate degree. Prospective students should have a strong academic background that is commensurate with their desired field of study within the department.

Students can select one of four general focus areas for their graduate study:

- Human Factors and Ergonomics (Ph.D., M.S., M.Eng.)
- Management Systems Engineering (Ph.D., M.S., M.Eng.)
- Manufacturing Systems Engineering (Ph.D., M.S., M.Eng.)
- Operations Research (Ph.D., M.S., M.Eng.)
- General Industrial Engineering (M.S. and M.Eng.)
- Master of Engineering Administration (M.E.A.)

The program offers a Doctor of Philosophy (Ph.D.), Masters of Science (M.S.) with thesis, or a coursework only, non-thesis Masters of Engineering (M.Eng.) degree.

Admissions Requirements for the Accelerated UG/G program in ISE:

- Minimum 3.4 GPA in last 60 hours of bachelor's coursework completed
- Statement of purpose, including career objectives
- CV/Resume
- Three letters of reference
- Transcripts, including official transcripts of all non-VT coursework

Applicants must be in the last 12 months of their undergraduate degree and must be accepted into the Accelerated UG/G program prior to the beginning of the semester in which they would enroll in courses to be double counted in the Accelerated UG/G program. Students should apply for the semester immediately after their undergraduate degree is completed, and the graduate degree will begin.

Application Deadlines:

- Begin senior year in fall – Apply by July 1
- Begin senior year in spring – Apply by December 1

Program Requirements for Accelerated UG/G program in ISE:

- A maximum of nine hours may be double-counted, none of which can include required undergraduate classes.
- No more than six credits double counted may be at the 4XXX level.
- Conjoint classes, to double count, must be taken at the 5XXX level.
- A grade of “B” or better must be earned in each course to be double counted.
- Courses must not be taken pass-fail if a graded option is available.

Questions on the accelerated UG/G program in SYSE should be directed to the ISE Graduate Program Advisor:

Hannah S. Parks, ISE Graduate Program Advisor
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