ENTRANCE ON A 3-YEAR PROGRAM

- A minimum of 500-level credit hours toward the degree must be completed.
- A minimum GPA of 3.25 is required.

ENTRANCE ON A 4-YEAR PROGRAM

- A minimum of 12 credit hours of IE 599 (or other approved thesis) may be counted toward the degree.
- A minimum GPA of 3.25 is required.


disciplinary lines. The IE program is based in advanced studies that focus on operations research, optimization, supply chain management, financial engineering, quality and reliability engineering and production management, with the aim to advance modeling, simulation, analysis and decision making for complex engineering and economic systems. The SEE program is founded on the premise of dual competency in both traditional engineering and systems integration. The SEE program offers flexibility by permitting the student to select from a menu of advanced courses and take a wide range of electives to meet individual career goals. Graduates of these programs are prepared to enter academic and professional engineering positions in universities, industry, government, and private practice.

Other Requirements and Conditions (may overlap)

- Minimum GPA: 3.25
- Minimum 500-level credit hours applied toward the degree: 16
- Independent study/project design courses do not count toward 500-level requirement.
- A maximum of 8 hours of IE 597 (or other approved independent study/project design) may be applied toward the elective course work requirement.
- Ph.D. exam and dissertation requirements:
  - Qualifying exam
  - Preliminary exam
  - Final exam or dissertation defense
  - Dissertation deposit

Other Requirements and Conditions (may overlap)

- Minimum GPA: 3.25
- Minimum 500-level credit hours applied toward the degree: 28
- Independent study/project design do not count toward 500-level requirement.
A maximum of 8 hours of IE 597 (or other approved independent study/project design) may be applied toward the degree.

Ph.D. exam and dissertation requirements:
- Qualifying exam
- Preliminary exam
- Final exam or dissertation defense
- Dissertation deposit

for the degree of Doctor of Philosophy in Industrial Engineering

Graduate-level students should be able to:

1. Apply theory and methodologies to areas of research that address areas within Industrial and Enterprise Systems Engineering.
2. Effectively relate and communicate their data findings to peers, faculty and possibly peer-reviewed journals.
3. Formulate and solve complex problems with ISE by applying appropriate techniques and tools.
4. Write and defend a thesis that is designed with scientifically accepted methods and can be applied to improve a design or other real-world issue.
5. Teach concepts critical to the discipline of Industrial and Enterprise Systems Engineering at the university level.

for the degree of Doctor of Philosophy in Industrial Engineering

Admission Requirements
Applicants who have completed degree requirements in an accredited engineering program or its equivalent are eligible to apply for admission. A minimum grade point average of 3.25 (A = 4.00) for the last two years of undergraduate study is required.

Scores on the Graduate Record Examination (GRE) (http://www.ets.org/) general test are required of all applicants. Based upon the previous preparation of the student for either program, prerequisite courses may be specified by the advisor, but the credit may not be applied toward a degree.

All applicants whose native language is not English are required to submit TOEFL (http://www.toefl.org/) or International English Language Testing System (IELTS) (http://www.ielts.org/) scores as evidence of English proficiency. Minimum admission requirements (https://grad.illinois.edu/admissions/instructions/04c/) are set by the Graduate College.

Financial Aid
Qualified students may compete for financial assistance in the form of teaching/graduate/research assistantships, fellowships, grants, and tuition waiver scholarships. Under certain conditions, fellowships may be augmented by part-time assistantships. Starting in Fall 2020, Grainger Engineering PhD students in their first five years of enrollment who meet the minimum eligibility requirements (https://grainger.illinois.edu/academics/graduate/phd-funding-guarantee/) are guaranteed a funded appointment for fall and spring that includes a full tuition waiver, a partial fee waiver, and a stipend.

All applicants, regardless of US citizenship, whose native language is not English and who wish to be considered for teaching assistantships must demonstrate spoken English language proficiency (http://grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 24 on the speaking subsection of the TOEFL iBT or 8 on the speaking subsection of the IELTS. For students who are unable to take the iBT or IELTS, a minimum score of 4CP is required on the English Proficiency Interview (http://cte.illinois.edu/testing/oral_eng/epi_overview.html) (EPI), offered on campus. All new teaching assistants are required to participate in the Graduate Academy for College Teaching (https://citl.illinois.edu/citl-101/teaching-learning/grad-academy-for-college-teaching/) conducted prior to the start of the semester.

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Grainger College of Engineering
Grainger College of Engineering website (https://grainger.illinois.edu/)

Admissions
Department of Industrial & Enterprise Systems Engineering Overview of Admissions & Requirements (https://ise.illinois.edu/graduate/admissions/)
Graduate College Admissions & Requirements (https://grad.illinois.edu/admissions/apply/)