

ENGINEERING LOGISTICS (CERT)

This program was approved for students entering the university in the Summer 2025-Spring 2026 catalog year. For more information about catalog year, go to Catalog Year Information (<https://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/>).

Graduate Certificate in Engineering Logistics

Unit: Speed School of Engineering (<https://engineering.louisville.edu/>) (GS)

Department: Industrial and Systems Engineering (<https://engineering.louisville.edu/academics/departments/industrial/>)

Academic Plan Code(s): ENLOCGR, ENLOGCRO

Program Information

This program can be completed 100% online. (<https://engineering.louisville.edu/academics/graduate-programs/cert-in-engr-logistics/>)

The graduate certificate in Engineering Logistics provides a focused study of Industrial and Systems Engineering skills and methods as applied to logistics systems.

Students who complete the certificate program will acquire advanced methodologies and tools in optimization, and simulation to address challenging problems in network design, inventory management, production planning, facility layout, and demand forecasting.

The certificate will create an opportunity for engineering professionals to have access to a continuing education program and an opportunity for future engineering professionals to have access to an experiential learning program in logistics.

Admission Requirements

The admission standards for the Graduate Certificate program in Engineering Logistics are as follows:

1. All admission applications for the Graduate Certificate program shall include:
 - a. A completed graduate application (<http://louisville.edu/graduate/futurestudents/apply-materials/application/>) for the Graduate School
 - b. Application fee
 - c. Official transcript certifying at least a bachelor's degree. All transcripts not in English must be certified as authentic and translated verbatim into English.
2. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
3. The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale). Applicants with a GPA between 2.5 and 2.75 may be considered for admission and will be required to submit additional application materials, including recommendation letters, a resume or personal statement, and prior academic performance in specific classes. Such applicants may be considered for conditional admission, and we may require that specific academic standards be met in the first semester to transition to admission in good standing.

4. Applicants are required to have completed Calculus I or higher. To find out whether there is a need for remedial work and discuss available options at UofL, consult with the director or admissions consultant.
5. International students whose primary language is not English must show English language proficiency. Applicants must either submit an official TOEFL, IELTS or Duolingo score, or demonstrate a degree award from an acceptable English language institution. The successful applicant will typically have a total TOEFL score of 79 or higher, an overall IELTS score of 6.5 or higher or Duolingo score of 105.

Applicants may be required to complete 1-2 prerequisite course(s), which would not be counted as part of the nine (9) credit hour requirement. Students are required to complete the nine (9) credit hour program with a minimum GPA of 3.0.

Students can enroll in a Graduate Certificate program either as a non-degree seeking student or as a student simultaneously enrolled in a graduate degree program and this graduate certificate program. Students who wish to earn a graduate degree must meet all admission criteria for the degree program.

Certificate Requirements

A total of nine (9) credit hours are required.

Code	Title	Hours
Select one course from the following:		3
ISE 646	Operations Research Methods	
ISE 645	Systems Simulation	
Select two courses from the following:		6
ISE 621	Facility Location and Layout	
ISE 625	Production and Inventory Systems	
ISE 657	Models for Design and Analysis of Logistical Systems	
ISE 655	Supply Chain Engineering	
Minimum Total Hours		9

¹ Requires background in probability and statistics.

The Certificate Program of Study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy certificate requirements.

Graduate certificate students must take all certificate course work at the University of Louisville. No transfer credits will be accepted toward a graduate certificate.