

ENGINEERING LOGISTICS (CERT)

This program was approved for students entering the university in the Summer 2023–Spring 2024 catalog year. For more information about catalog year, go to Catalog Year Information (<http://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 Engineering (<https://engineering.louisville.edu/academics/departments/industrial/>)

Academic Plan Code(s): ENLOCGR, ENLOCGR0

Program Information

This program can be completed in a traditional classroom format or entirely online (https://apply.louisville.edu/register/form/?id=0384b3f4-b13d-4345-a7a3-a5c2ce38cd7d&sys:field:OL_program_type=6f5a6f84-4d8f-4af9-b3f5-93312c2fa162&sys:field:OL_program=28591927-b8e8-4fef-9da4-d8bb3a64557c&_gl=1*10nvdy*_*_gcl_au*MTA2Mjk5NzgwLjE3MDA1MDI3ND).

The graduate certificate in Engineering Logistics provides a focused study of Industrial 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:

- a. All admission applications for the Graduate Certificate program shall include:
 - i. A completed graduate application (<http://louisville.edu/graduate/futurestudents/apply-materials/application/>) for the Graduate School
 - ii. Application fee
 - iii. Official transcript certifying at least a bachelor's degree. All transcripts not in English must be certified as authentic and translated verbatim into English.
- b. The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
- c. 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.

- d. 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 80 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 9 credit hour requirement. Students are required to complete the 9 credit hour program with a minimum GPA of 3.0.

Certificate Requirements

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

Code	Title	Hours
Select one course from the following:		3
IE 515	Operations Research Methods	
IE 541	Simulation ¹	
Select two courses from the following:		6
IE 621	Facilities Planning	
IE 625	Production and Inventory Control	
IE 657	Models for Design and Analysis of Logistical Systems	
IE 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.