TRANSPORTATION AND LOGISTICS MINOR

Students are required to complete 7 courses, of which 1 is a required course. The other 6 courses must include at least 3 core courses. At least 2 of the 6 must be outside the school in which the student is majoring.

Students in the McCormick School may double-count a maximum of 2 courses from their major program toward the minor. Students from other schools are not allowed to double-count courses that are part of their major but may count courses that fulfill related course, distribution, foundation, or social science and humanities requirements.

Prerequisites

In preparation for pursuing the minor, students should take courses in calculus and in probability and statistics.

Minor Requirements (7 units)

- TRANS 310-0 Seminar in Transportation and Logistics (For WCAS students entering after Spring 2023, this class fulfills the WCAS Advanced Expression requirement.)
- 3 or more core courses
  - Chosen from the following:
    - Course | Title
    - CIV_ENV 304-0 | Civil and Environmental Engineering Systems Analysis
    - CIV_ENV 371-0 | Introduction to Transportation Planning and Analysis
    - CIV_ENV 376-0 | Transportation System Operations
    - CIV_ENV 377-0 | Choice Modelling in Engineering
    - ECON 310-1 | Microeconomics
    - ECON 355-0 | Transportation Economics and Public Policy
    - IEMS 310-0 | Operations Research
    - or IEMS 313-0 | Foundations of Optimization
    - IEMS 381-0 | Supply Chain Modeling and Analysis
    - IEMS 383-0 | Service Engineering and Management
  - 2 must be outside the student's major program.
  - No substitutions are allowed.
- 3 additional courses selected from core courses or approved electives:
  - Approved electives include the following:
    - Course | Title
    - CIV_ENV 205-0 | Economics and Finance for Engineers
    - or BUS_INST 304-0 | Corporate Finance
    - or ECON 360-1 | Foundations of Corporate Finance Theory
    - or KELLG_FE 310-0 | Principles of Finance
    - CIV_ENV 330-0 | Engineering Project Management
    - CIV_ENV 368-0 | Sustainability: The City
    - CIV_ENV 387-0 | Design of Sustainable Urban Developments
    - ECON 309-0 | Public Finance
    - ECON 337-0 | Economics of State and Local Governments
    - ECON 349-0 | Industrial Economics
    - ECON 350-0 | Monopoly Competition & Public Policy
    - ECON 354-0 | Issues in Urban and Regional Economics
    - ECON 361-0 | International Trade
    - ECON 371-0 | Economics of Energy
    - ECON 372-0 | Environmental Economics
    - ECON 373-0 | Natural Resource Economics
    - ECON 381-1 | Econometrics
    - ECON 381-2 | Econometrics
    - GEOG 312-0 | Geography of Chicago & Its Region
    - GEOG 341-0 | Principles of Cartography
    - GEOG 343-0 | Geographic Information Systems (or other approved GIS course)
    - HISTORY 322-2 | Development of the Modern American City: 1880-Present
    - IEMS 315-0 | Stochastic Models
    - IEMS 317-0 | Discrete Event Systems Simulation
    - IEMS 365-0 | Analytics for Social Good
    - IEMS 382-0 | Operations Engineering and Management
    - IEMS 385-0 | Advanced Theories of Traffic Flow
    - IEMS 482-0 | Infrastructure Systems
    - IEMS 483-0 | Infrastructure Systems Analysis
    - IEMS 484-0 | Advanced Theories of Traffic Flow
    - IEMS 485-0 | Logistics
    - IEMS 486-0 | Operations

- At least 2 of the core or elective courses must be outside the school in which the student is registered.
- Students in the McCormick School may double-count a maximum of 2 courses from their major program toward the minor.
- Students from other schools are not allowed to double-count courses that are part of their major but may count courses that fulfill related course, distribution, or social science and humanities requirements.
- 4XX level courses require consent of the instructor and the Director of the Transportation and Logistics Program.

TRANS 310-0 Seminar in Transportation and Logistics (1 Unit) Yearlong senior seminar on the structure of the transportation and supply-chain industries and evaluation of relevant public policy. Students receive 1 credit in the spring quarter of their senior year. Advanced Expression

TRANS 399-0 Independent Study (1 Unit) Advanced work chosen by mutual agreement with a faculty member. Only 1 unit may count toward the minor. Consent of faculty required.