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 which 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, 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
• 3 or more core courses
  • Chosen from the following:
    Course | Title
    ECON 310-1 | Microeconomics
    ECON 355-0 | Transportation Economics and Public Policy
    CIV_ENV 371-0 | Introduction to Transportation Planning and Analysis
    CIV_ENV 376-0 | Transportation System Operations
    IEMS 310-0 | Operations Research
    or IEMS 313-0 | Foundations of Optimization
    IEMS 381-0 | Supply Chain Modeling and Analysis
    IEMS 383-0 | Service Operations 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
    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
    or ECON 370-0 | Environmental & Natural Resource Economics
    ECON 373-0 | Natural Resource Economics
    or ECON 370-0 | Environmental & 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
    HISTORY 322-2 | Development of the Modern American City, 1880-Present
    POLL_SCI 321-0 | Urban Politics

  • 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.

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.

Graduate Level Courses

CIV_ENV 471-1 | Transportation Systems Analysis 1
CIV_ENV 471-2 | Transportation Systems Analysis 2
CIV_ENV 472-1 | Transportation System Operations and Control 1: Urban Networks
CIV_ENV 472-2 | Transportation System Operations and Control 2: Scheduled Modes and Real-Time
CIV_ENV 473-0 | Survey methods, data and analysis
CIV_ENV 480-1 | Travel Demand Analysis & Forecasting 1
CIV_ENV 480-2 | Advances in Travel Demand Analysis and Forecasting
CIV_ENV 482-0 | Evaluation and Decision Making for Infrastructure Systems
CIV_ENV 483-0 | Infrastructure Systems Analysis
CIV_ENV 484-0 | Advanced Theories of Traffic Flow
IEMS 481-0 | Logistics

POLI_SCI 322-0 | Ideas and Institutions in Urban Politics
POLI_SCI 329-0 | U.S. Environmental Politics
SOCIOL 301-0 | The City: Urbanization and Urbanism
SOCIOL 312-0 | Social Change and the Environment
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 KELLOG_FE 310-0 | Principles of Finance
CIV_ENV 304-0 | Civil and Environmental Engineering Systems Analysis
CIV_ENV 330-0 | Engineering Project Management
CIV_ENV 368-0 | Sustainability: The City
IEMS 315-0 | Stochastic Models
IEMS 317-0 | Discrete Event Systems Simulation
IEMS 350-0 | Analytics for Social Good
IEMS 382-0 | Production Planning and Scheduling

1 unit of approved independent study