

TRANSPORTATION & LOGISTICS

UNDERGRADUATE MINOR

*An interdisciplinary minor available
to students in all schools*

- Interdisciplinary curriculum <
- Networking opportunities <
- Industry connections <
- Personalized advising <
- Important research <
- Job placement <
- Community <

MORE INFORMATION

PROGRAM DIRECTOR

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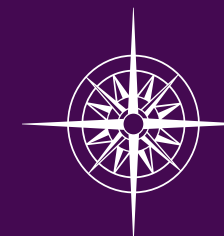
NUTC CONTACT

847.491.7287
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NUTC OFFICES

Transportation Center
600 Foster Street, Evanston, IL 60208
transportation.northwestern.edu

To learn more about the T&L Minor, please visit: tiny.cc/NUTCminor



**Northwestern University
Transportation Center**



T&L MINOR

WHY TRANSPORTATION?

Passenger and freight transportation represents nearly one-fifth of the U.S. Gross Domestic Product, and influences every aspect of our lives—where we live, how we work, and what we purchase. The study of transportation and logistics is inherently interdisciplinary, reaching across schools and departments.

The **Minor in Transportation & Logistics** offers undergraduate students the opportunity to explore the exciting world of transportation and logistics through an interdisciplinary sampling of courses geared to complement their major program of study. The curriculum equips students with a broad understanding of the economics, engineering, and operations of transportation and logistics systems and the role of public policy.

The T&L Minor is administered by the **Northwestern University Transportation Center (NUTC)**, an interdisciplinary research center founded in 1954. NUTC has been recognized as a leader in graduate education for decades, with affiliated faculty from departments campus-wide. NUTC's dynamic expertise is made available to the undergraduate student population through the T&L Minor.

For more information about NUTC, please visit: transportation.northwestern.edu



Find solutions to today's greatest transportation challenges with the T&L Minor

- How might self-driving cars affect our lives & our cities?
- What can be done about air traffic delays?
- Is there any solution to highway congestion?
- What should we do about potholes and deteriorating bridges?
- Will an expanded Panama Canal affect how goods reach our stores?
- Should we build high-speed rail lines & will passenger rail survive?
- How can we get supplies & assistance to areas affected by natural disasters?
- Where should big-box retailers locate their distribution centers?
- Will the revolution underway in the taxi market also remake urban transit?

T&L Minors enjoy access to NUTC's personalized placement services, as well as its wide network of industry professionals, including well-placed and connected alumni working in the field.

T&L Minor program participants pursue careers in:

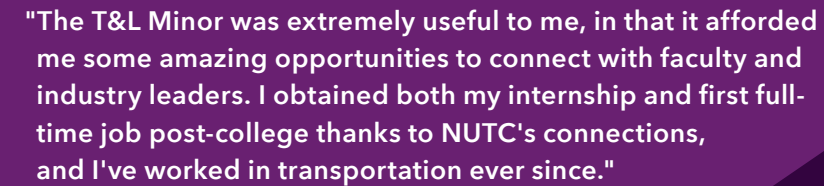
- >> Transportation Operations—for carriers, suppliers & service providers
- >> Logistics & Supply-Chain Management
- >> Public Sector Agencies
- >> Transportation Engineering & Consulting Companies

Sample positions held by T&L Minor alumni:

- >> Transportation Planner, NYC Metropolitan Transit Authority
- >> Network Planning Analyst, Delta Airlines
- >> National Account Manager, CH Robinson
- >> Associate, McKinsey & Company
- >> Logistics Specialist, Ruan Transportation
- >> Operations Product Manager, Google
- >> Transportation Engineer, Kittleson & Associates
- >> Revenue Management Analyst, United Airlines



Explore the endless career opportunities available within the transportation & logistics industry



"The T&L Minor was extremely useful to me, in that it afforded me some amazing opportunities to connect with faculty and industry leaders. I obtained both my internship and first full-time job post-college thanks to NUTC's connections, and I've worked in transportation ever since."

DAVID STONE [Class of 2004]
Principal, Boston Consulting Group



PROGRAM REQUIREMENTS

[7 courses in total]

A **senior seminar** (TRANS 310), which includes lectures and seminars on contemporary issues, a literature review paper and a term paper with original research. Work for this course is spread throughout the senior year, with a one-credit registration in the student's final quarter. Students will work with a faculty advisor on their research.

At least three core classes drawn from transportation and logistics classes that are offered by the Departments of Civil & Environmental Engineering, Economics, and Industrial Engineering. At least two of these core classes must be from Departments outside of their major.

ECON-310-1 Intermediate Microeconomics I
ECON-355 Transportation Economics & Public Policy
CIV_ENG-371 Transportation Systems Planning & Management
CIV_ENG-376 Transportation System Operations
[Either] **IEMS-310** Operations Research
[or] **IEMS-313** Deterministic Models & Optimization
IEMS-381 Supply Chain Modeling & Analysis
IEMS-383 Service Operations Management

The remainder of the seven courses drawn from a wide list of approved **elective classes** in engineering, the social sciences and humanities.

Cross Disciplinary: At least two courses of the core or elective courses must be outside the school in which the student is registered.

In general students cannot "double count" courses which are part of their major(s) or other minors. But they can double count courses that form "related courses," or "distribution" requirements. But, students in the **McCormick School of Engineering & Applied Science** may double count a maximum of two courses from their major program toward the T&L Minor.

Learn more about the T&L Minor by visiting: tiny.cc/NUTCminor

Or visit the **Transportation Center** in person:

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PROGRAM BENEFITS

Transportation & logistics-related courses taught by faculty recognized as experts in their field

Personalized academic advising by senior faculty

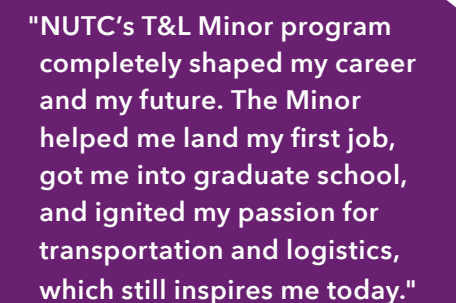
Opportunities for involvement in exciting transportation-related research projects

Access to highly specialized career counseling & direct access to job opportunities with top companies

NUTC Transportation Club membership, with field trips, executive luncheons, networking & speaker events

NUTC research seminars, workshops, & industry-focused presentations

A community of fellow undergraduates, graduate students, NUTC faculty & alumni, with shared interests in transportation & logistics



"NUTC's T&L Minor program completely shaped my career and my future. The Minor helped me land my first job, got me into graduate school, and ignited my passion for transportation and logistics, which still inspires me today."

DREW AUSTIN [Class of 2006]
Operations & Logistics Officer,
Uber Technologies