

Transportation and Logistics

Department Information

- **Department Chair:**
Tim Peterson, Ph.D.
- **Academic Coordinator:**
Jody Bohn Baldock
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- **Department Location:**
Upper Great Plains Transportation Institute, Quentin Burdick Building 418
- **Department Phone:**
(701) 231-7767
- **Department Web Site:**
www.ndsu.edu/business/programs/graduate/phd/ (<http://www.ndsu.edu/business/programs/graduate/phd/>)
- **Application Deadline:**
See Admission Requirements
- **Credential Offered:**
Ph.D.
- **English Proficiency Requirements:**
TOEFL iBT 71; IELTS 6; Duolingo 100

Degree Requirements

The Ph.D. program requires the completion of a minimum of 90 credits of graduate study beyond the baccalaureate degree. Thirty credits will be automatically considered completed if the student completed one of the Master's degree from the TLF Department. If the student already has a master's degree in a related discipline, the student is eligible to transfer a maximum of 30 credits from the master's degree towards the 90 credits. The credits are required to consist of the following:

- 18 credits of core Transportation & Logistics courses.
- 2 credits of required graduate teaching experience course.
- Out of 10 elective course credits needed, a minimum of 6 credits must be transportation and logistics elective courses.
- A minimum of 30 credits of research-based dissertation credits.

Each student must develop a plan of study under the guidance of a faculty adviser and a supervisory committee. Students must take a total of three different examinations to successfully complete their Ph.D. degree in Transportation and Logistics: 1) the qualifying examination, 2) the proposal defense examination, and 3) the dissertation defense examination. The qualifying examination is a written examination that will be required of each student after the qualifying courses have been completed. After passing the qualifying examination, the student will be formally admitted to candidacy for the Doctor of Philosophy degree. Students who pass the qualifying examination are expected to take the proposal defense examination by the end of their third year in the program. For the proposal defense and dissertation defense examinations, the supervisory committee shall serve as the examining committee and the major advisor shall serve as chair. The proposal defense examination is an oral exam and is concerned primarily with the student's detailed research proposal for the dissertation. Upon completion of the proposal defense examination, a student will be considered a doctoral candidate. The dissertation defense will be taken after the candidate has completed the course work and proposal defense examination. The dissertation defense examination, which is an oral examination, will be concerned primarily with the dissertation; but it may also cover material from course work, especially those courses fundamental to the dissertation. The Ph.D. program requires students to present at least one original transportation and/or logistics research paper at a national or international conference, and submit at least one paper to a referred transportation and/or logistics journal.

Code	Title	Credits
Core Courses (18 credits)		
TL 831	Modeling for Transportation and Logistics Decision Analysis	3
TL 881	Mixed Methods in Transportation Research	3
TL 882	Highway Planning and Logistics	3
TL 883	Introduction to Rail Transportation	3
TL 885	Spatial Analysis in Transportation & Logistics	3
TL 888	Research in Transportation and Logistics	3

Required Courses		
TL 892	Graduate Teaching Experience	2
Transportation and Logistics (TL) Elective Courses (≥ 6 credits)		
TL 811	Modeling for Logistics Research	4
TL 823	Contemporary Supply Chain Research	3
TL 829	Supply Chain Risk Management	3
TL 751	Transportation Cyber-Physical Security	3
TL 752	Transportation Planning and Environmental Compliance	3
TL 754	Urban Transportation Systems Analysis	3
TL 755	Context Sensitive Solutions	3
TL 756	Transportation and Land Use Integration	3
TL 757	Intelligent Transportation Solutions	
TL 786	Public Transportation	3
TL 787	Public Transportation II	3
TL 789	Leadership, Ethics, and Academic Conduct in Transportation	3
TL 715	Introduction to ERP	3
TL 719	Crisis Analysis and Homeland Security	3
TL 721	International Logistics Management	3
TL 725	ERP Configuration	3
TL 729	Adaptive Planning in Logistics Systems	3
TL 731	Logistics Decision Analysis	3
TL 733	Case Studies in Logistics	3
TL 735	Practical Data Analytics	3
Dissertation (≥ 30 credits)		
TL 899	Doctoral Dissertation	1-15