

# TRANSPORTATION & LOGISTICS MANAGEMENT (TRSP)

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## TRSP 300 Supply Chain Management 3.00

Introduction to concepts, functions, processes and objectives of logistics and supply chain management activities including procurement, manufacturing, and logistics. Covers planning, organizing and controlling of such activities, and examines the role of supply chain processes in creating competitive advantage with respect to quality, flexibility, lead-time, and cost. Provides an analysis of logistics and transportation services. Topics include customer service, inventory concepts and management, transportation, warehousing, purchasing, supply chain management, global logistics, sustainability, and logistics strategies.

### Prerequisites:

Admitted to SBE.

## TRSP 301 Study Abroad 6.00

Field trips designed by department faculty to give students direct experiences in foreign countries. Each program includes preparatory reading, orientation meetings, a faculty-supervised study tour, and a detailed written evaluation of learning situations associated with the course. With consent of the relevant program and content adaptation, programs provided by other agencies can be considered for this credit. Students must obtain approval for taking these courses prior to participation otherwise the course may not count. For specific degree requirements consult your advisor. Course can be repeated only if the content is different. Consent of instructor. Requires a minimum of 3 credits if used to fulfill elective requirement.

## TRSP 305 Air Transportation Management 3.00

Explores the history, management and future trends in air transportation. Covers the four principal segments of air transportation: major carriers, regional carriers, all-cargo carriers and general aviation. Also examines airport management. In each segment the issues of aircraft design, market share, finance, insurance and operations are discussed. The development and application of national and international regulations that impact air transportation are analyzed. Topics include: cost structure, air fares, flight crews and safety, environmental impacts of aircraft and airports, operating and service characteristics, technological advances, world competition and intermodal operations.

### Prerequisites:

Admitted to SBE.

## TRSP 315 Land Transportation Management 3.00

Covers the three basic surface transportation modes of rail, highway systems and pipelines. Provides a comprehensive knowledge base of the three major segments of each mode: management, marketing and operations, including the various types of freight and passenger services, both public and private, and the intermodal services. Historical, current and future trends of the North American surface transportation are covered, including the expanding intermodal needs and system approaches in both freight and passenger services, and the crucial connection with the origin of raw materials to destination manufacturing and ultimately to the consumer.

### Prerequisites:

Admitted to SBE.

## TRSP 325 Marine Transportation Management 3.00

Addresses the management and future trends in marine transportation. The issues of vessel design, market share, finance, insurance, operations and sustainability are addressed for the ocean, inland and Great Lakes shipping segments. The development and application of national and international regulations that impact the marine transportation of freight and passengers will be analyzed. The topics of vessel financing, freight rates, vessel crewing, safety, environmental impacts, vessel operations, fleet management, port and flag state control, trade routes and intermodal operations will be explored using case study analysis.

### Prerequisites:

Admitted to SBE.

## TRSP 333 Transportation Fundamentals and Economics 3.00

Introductory course focuses on domestic transportation, but an international dimension is included. Covers all modes of transportation, their micro-economic and organizational characteristics, role and function in the national economy, regulatory and policy issues, rate setting, interaction in the supply chain, shipper and carrier relations, intermodal operations and environmental impacts.

### Prerequisites:

ECON 250 and 251, or ECON 235, or instructor consent.

## TRSP 345 Supply Chain Analytics 3.00

Introduces the primary analytical methods and tools that are needed in the practice of modern supply chains to improve operational efficiency and effectiveness by enabling data-driven decisions at strategic, operational and tactical levels. Focuses on the application of these analytical methods, not necessarily the theoretical underpinnings. Aims at introductory level of supply chain analytics for those who have limited background in supply chain management and data analytics.

### Prerequisites:

Prerequisite is completion of BUS 250, Admittance to SBE or SBE instructor permission

## TRSP 389 Transportation & Logistics Mgt Elective 1.00-12.00

Transfer credits ONLY from another accredited institution not equivalent to a UW-Superior course.

**TRSP 400 Transportation Internship 2.00-7.00**

Students extend classroom learning to a business setting in the transportation and logistics field. Students obtain the cooperation of an employer and prepare a learning contract. Students will submit weekly recaps of activities, a final report and presentation about their experience. This capstone course with a senior experience component is required for graduation from the Transportation and Logistics Management major and must be a minimum of six weeks long. The internship may be taken any academic term. Pass-Fail only. Course may be repeated. Students may earn a maximum of 7 credits.

**Prerequisites:**

Admitted to SBE and successful completion of TRSP 300 or TRSP 333

**TRSP 401 Advanced Supply Chain Management 3.00**

Examines advanced supply chain and logistics theory and concepts as applied in the modern business environment. Provides an understanding of the major functions of supply chain management. Exposes students to the tools and techniques employed in the analysis of logistics and supply chain systems. Emphasis on system optimization for the purpose of achieving customer satisfaction, and sustainability.

**Prerequisites:**

Admitted to SBE and TRSP 300.

**TRSP 402 Urban Planning and Transportation Systems 3.00**

Comparative examinations of planning theories and practices that shaped the geography of 19th and 20th century urban and suburban areas. Introduction to the interurban and interurban influences of transportation systems on land use and planning will be explored. Stresses the ways in which planners and planning ideologies have responded to different social, economic, political and technological (transportation and communication) innovations and pressures. The class includes an examination of 21st Century problems, pressures and solutions to urban and transportation needs. Qualifies as an Academic-Service Learning course (see Academic Service-Learning for more details). A significant semester-long group AS-L project, which connects the student with the Twin Ports community, is a substantial learning goal in the face-to-face section of this course. Cross-listed as GEOG/TRSP 402. S18, S20.

**Prerequisites:**

T&L majors who have completed GEOG 302 and admitted to SBE; or non-SBE majors who have completed GEOG 302, or consent of instructor.

**TRSP 405 Port and Terminal Management 3.00**

Management principles applied to the operation of ports, terminals, warehouses, and distribution centers. Key topics to be addressed include: governance, administration, regulations, hazardous materials, materials handling, intermodal connections, environmental impacts and labor relations. Additional concepts such as location analysis, warehouse management systems, containerization, inventory management and sustainability will be addressed. Case study methodology will be used that applies quality management, Six Sigma and learn management principles.

**Prerequisites:**

Admitted to SBE.

**TRSP 430 International and Intermodal Transportation Management 3.00**

Focuses on managing the export/import process of freight, the operation of international intermodal systems and conducting business in different cultures. Topics to be addressed include: entering foreign markets, multi-national logistics strategy, international law, currency exchange, insurance, INCOTERMS, commercial documents, customs clearance, packaging, transportation systems, multi-national business ethics, reverse logistics and sustainability.

**Prerequisites:**

Admitted to SBE.

**TRSP 489 Transportation & Logistics Mgt Elective 1.00-12.00**

Transfer credits ONLY from another accredited institution not equivalent to a UW-Superior course.