



SUPPLY CHAIN MANAGEMENT & LOGISTICS

Complementing their broader background as industrial engineers, the Supply Chain Management & Logistics Track will provide students with an exceptional background for the design and management of supply chains. This includes quantitative modeling of supply chain systems, as well as the use of such modeling to support system design and decision making. Such skills are in great demand for career paths in areas such as healthcare, energy systems, financial management, insurance, manufacturing and production systems, military planning, shipping and distribution, and transportation.

Entry into this track is competitive, as there is only space for a limited number of students in the required courses. Students will be admitted based on EPHR as well as performance in programming, math, and statistics courses.

This track requires students to complete a minimum of 15 credit hours.

REQUIRED ELECTIVES (6 hours)

ISE 5110	3	Design of Engineering Experiments
ISE 5410	3	Quantitative Models in Production and Distribution Logistics

MINIMUM ONE COURSE OF THE FOLLOWING ELECTIVES* (3 hours)

ISE 5350	3	Probabilistic Models and Methods in Operations Research
ISE 5830	3	Decision Analysis

MINIMUM ONE COURSE OF THE FOLLOWING ELECTIVES (3 hours)

ISE 5682.01	3	Fundamentals of Product Design Engineering
ISE 5760	3	Visual Analytics and Sensemaking
ISE 5800	3	Advanced Project Management
ISE 5810	4	Lean Sigma Foundations
ISE 5820	3	Systems Thinking in Engineering and Design
ISE 5870	3	Resilience Engineering

MINIMUM THREE HOURS FROM THE FOLLOWING ELECTIVES (3 hours)

BUSML 3380	1.5	Logistics Management
BUSML 4380	1.5	Advanced Logistics Management (<i>prerequisite BUSML 3380</i>)
BUSML 4383	1.5	Supply Chain Management (<i>prerequisite BUSML 3380</i>)
BUSML 4385	1.5	Building a Sustainable Supply Chain (<i>prerequisite BUSML 3380</i>)
BUSML 4387	1.5	Lean Logistics (<i>prerequisite BUSML 3380</i>)
ISE 5350	3	Probabilistic Models and Methods in Operations Research
ISE 5830	3	Decision Analysis

Students who were admitted to OSU prior to Autumn 2015 should contact their Academic Advisor for information about their course requirements in this track.