

Applied Logistics, MPS (Online)

The Master of Professional Studies in Applied Logistics is designed to prepare students to be agile in the changing warehousing and distribution industry. As a central pillar of the program, students study how to handle challenges that arise quickly and develop leadership and project management skills to help communicate to customers, avoid reactionary responses, work collaboratively to find a solution, and effectively communicate across the supply chain and with customers. By integrating systems thinking with training in the technical applications in logistics, students have an opportunity to gain well-rounded experience that allows them to understand and adapt to strategic imperatives while also being able to execute in detail. The program aims to develop proficiency in descriptive analytics and the use of real-time data to optimize routing among distribution centers and fulfill orders in response to changing customer profiles, shifting product sales, disruptions in the supplier network, and customer demand for packaging changes.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Required Courses

Code	Title	Hours
APL 6000	Foundations of Applied Logistics	3
APL 6110	Capacity Planning and Demand Management	3
APL 6120	Warehouse and Inventory Management Systems	3
APL 6130	Freight Management	3
APL 6140	Supplier and Order Management	3

Restricted Electives

Complete 4 semester hours from the following:		4
APL 6400	Network Design and Technology Innovation in Logistics	
APL 6410	International Logistics and Sustainable Practices	
APL 6983	Special Topics in Applied Logistics	

Capstone

APL 6980	Applied Logistics Capstone	3
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Concentration or Electives Option

A concentration is not required. Students may complete the electives option in lieu of a concentration.

- Analytics (p. 1)
- Applied Machine Intelligence (p. 2)
- Geospatial Services (p. 2)
- Human Resources Management (p. 2)
- Nonprofit Management (p. 2)
- Organizational Communication (p. 2)
- Organizational Leadership (p. 2)
- Project Management (p. 3)
- Electives Option (p. 3)

Program Credit/GPA Requirements

34 total semester hours required

Minimum 3.000 GPA required

ANALYTICS CONCENTRATION

Code	Title	Hours
Required Courses		
ALY 6105	Introduction to Applied Statistics	3
ALY 6115	Foundations of Data Analytics	3
ALY 6145	Communication and Visualization with Data	3
Complete 3 semester hours from the following:		3
ALY 6125	Intermediate Analytics	

ALY 6610	Data Mining Applications (Data Mining)
ALY 6620	Big Data and Cloud Computing

APPLIED MACHINE INTELLIGENCE CONCENTRATION

Code	Title	Hours
AAI 6600	Applied Artificial Intelligence	3
AAI 6610	Applied Machine Learning	3
AAI 6620	Applied Natural Language Processing	3
AAI 6630	Applied Computer Vision	3

GEOSPATIAL SERVICES CONCENTRATION

Code	Title	Hours
GIS 5103	Foundations of Geospatial Science and Technology	2
GIS 6210	Geospatial Applications	2
GIS 6220	Geospatial Programming	2
GIS 6230	Advanced Geospatial Analysis	2
GIS 6240	Geospatial Predictive Analytics	2
RMS 5105	Fundamentals of Remote Sensing	2

HUMAN RESOURCES MANAGEMENT CONCENTRATION

Code	Title	Hours
HRM 6100	Human Resource Management	3
HRM 6150	Strategic Workforce Planning	3
HRM 6200	Human Resources Technology	3
HRM 6250	Workforce Analytics	3

NONPROFIT MANAGEMENT CONCENTRATION

Code	Title	Hours
NPM 6100	Strategic Management and Leadership for Nonprofit Organizations	3
NPM 6120	Financial Management and Reporting for Nonprofit Organizations	3
NPM 6130	Marketing and Fundraising for Nonprofit Organizations	3
NPM 6150	Human Resources Management in Nonprofit Organizations	3

ORGANIZATIONAL COMMUNICATION CONCENTRATION

Code	Title	Hours
CMN 6150	Communication Research and Strategy	3
CMN 6230	Content Creation and Delivery	3
CMN 6300	Organizational Culture, Climate, and Communication	3
Complete 3 semester hours from the following:		3
CMN 6250	Organizational Communication Assessment	
CMN 6610	Foundations and Development of Cultural Communications	
PBR 6725	Crisis Communication	

ORGANIZATIONAL LEADERSHIP CONCENTRATION

Code	Title	Hours
LDR 6105	Developing 21st-Century Leadership Capability	3
LDR 6155	Leadership Lab: Challenge for Leaders	3
Complete 6 semester hours from the following:		6
LDR 6200	The Language of Leadership	
LDR 6250	Driving Organizational Success Through Leadership Development	
LDR 6300	Ethical Leadership	
LDR 6406	Leading Teams Strategically in a Global Environment	
LDR 6416	Leading Strategic Development and Implementation	
LDR 6426	Developing Sustainable Global Leadership	
LDR 6436	Innovation and Organizational Transformation	

PROJECT MANAGEMENT CONCENTRATION

Code	Title	Hours
PJM 6100	Foundations of Project Management ¹	3
PJM 6120	Project Scope, Schedule and Cost Planning	3
PJM 6200	Project Risk Management	3
PJM 6300	Project Quality Management	3

¹ Foundations of Project Management (PJM 6100) is for students with fewer than three years of experience directing or leading project tasks. Students who do not complete PJM6100 may substitute any project management elective to satisfy the required program hours.

ELECTIVES OPTION

Code	Title	Hours
Any College of Professional Studies graduate-level courses or unused courses in the program or a combination of both in lieu of a concentration.		12