

Reverse Logistics Management (RLMT)

RLMT500 Reverse Logistics Management (3 semester hours)

This course is a comprehensive review of the major applications of reverse logistics principles, problems and best practices in manufacturing, retail and the military. The student will study applications from apparel, aviation, automotive, electronics, food and beverage, retailers, and sporting goods. It includes an analysis of Green applications and Carbon Footprint credits for companies.

RLMT501 Practical Applications in Economics Analysis (3 semester hours)

This course is a comprehensive study of problem formulation and calculating return on investment (ROI) in project management, such as applications for reverse logistics. The student will develop engineering economic analysis solutions to case study problems of returns, recalls, recycling, repackaging, waste management, as part of learning how to design a reverse logistics network or supply chain.

RLMT502 Decision Making Strategies in Reverse Logistics Management (3 semester hours)

This course investigates the advanced analysis methods and techniques used to solve the pricing and packing needs of products entering the reverse logistics supply chain. The course emphasizes the most successful methods from business statistics, production and operations management, management science, and operations research fields of study. Students will be required to synthesize material from several major fields of study in order to apply it in this course. Methods of analysis will be investigated to solve these problems including probability concepts and their applications, statistical quality control, process design, forecasting, inventory control, waiting line models, transportation and assignment methods, decision analysis, and simulation modeling.

RLMT503 Reverse Logistics Policies and Regulations (3 semester hours)

This course covers government rules, regulations, policies, etc. that govern reverse logistic operations. These policies and regulations will be analyzed toward their impact on product production, manufacturing, and retail industry. The impact of the overall reverse logistics network designs and distributions will be studied from case studies. The impact on the financial elements of a company engaging in reverse logistics practices will be examined from a return on investment and sound business planning.

RLMT600 Global Reverse Logistics Management (3 semester hours)

This course is a comprehensive examination of the global factors affecting reverse logistics drivers from major companies to small businesses. The student will examine and analyze disaster logistics, and how it affects the resiliency of a global supply chain.

RLMT610 Technology in Reverse Logistics Operations (3 semester hours)

This course studies the use of GPS, RFID and bar coding technology used to track and trace products through the forward supply chain and the reverse logistics process. The student will study the complex issues of data synchronization facing today's reverse logistics manager.

RLMT620 Resource Commitment and Performance in Reverse Logistics (3 semester hours)

Students in this course analyze the resources needed to establish and implement a reverse logistics operations in manufacturing and in retail stores. Emphasis is placed on analysis and way to measure the return on investment and other performance measures to ensure a successful reverse logistics operation.

RLMT630 Recalls and Returns Management (3 semester hours)

This course is a focused and comprehensive examination of the recalls programs of major manufacturing companies around the world, as a thorough study of how a returns program can enhance the revenue stream of a retail store.

RLMT645 Advanced Green Logistics (3 semester hours)

This course examines the organization, planning, and controlling of recycling, reclaimed materials, and reclaim centers projects that are designated as Green. The student is provided practical knowledge on Green project planning, managing Green project scope, and sustainment and environmental risk management.

RLMT650 Reverse Logistics in the Retail Industry (3 semester hours)

This course is a focused and comprehensive examination of how different retail industries implement reverse logistics programs. The focus is on food and beverage, apparel, automotive, sports, hotel operations, and consumer electronics. Attention is focused on data synchronization inventory management comparing the forward and reverse logistics chains.