NorthWest Arkansas Community College
Division of Business & Computer Information

TRLG 1013 Supply Chain Management (F)

Catalog Description:
This course is an introduction to basic concepts of supply chain management such as inbound logistics and outbound logistics, demand forecasting, inventory management, warehousing, materials handling and transportation. The basics of supply chain modeling for the optimization and monitoring of a supply chain will be covered using mathematical programming models.

Prerequisite:
None.

Credit Hours/Contact Hours/Load Hours:
3/3/3

Target Audience / Transferability:
This course is designed for students seeking an AAS in any area of business. This course WILL NOT transfer to the Sam M. Walton College of Business at the University of Arkansas or most four-year institutions.

Student Learning Outcomes:
Students completing this course will:

- Demonstrate a basic understanding of the factors that influence facility location decisions.
- Describe basic demand forecasting methods.
- Determine which methods are appropriate depending on the different components present in the data.
- Explain optimal order quantity.
- Describe the components/decisions that comprise typical logistic systems.
- Identify explain the managerial and strategic applications of information systems.
- Discuss the basic concepts involving systems architecture and infrastructure.
- Explain the advantages/disadvantages of different costing methods.
- Identify the assumptions surrounding the EOQ model.
- Differentiate between direct and indirect costs
- Explain the general mechanics of the basic EOQ model.
- Explain the Reorder Point (ROP) model and the assumptions surrounding this model.
- Differentiate between Continuous Review (Q) Systems and Periodic Review (P) Systems.
- Explain the objectives and function of transaction processing systems.
- Describe integrated information systems and Enterprise Resource Planning (ERP) systems
- Use basic math and reasoning skills to solve homework assignments that will further understanding of the supply chain concept.
- Use and apply computer spreadsheet knowledge and skills.
- Explain the significance of current business economic regulation and its impact on the business environment.
- Explain how supply chain management impacts society.

Topics:

- Supply chain management and competitive strategy.
- Process thinking.
- Supply chain mapping.
- Strategic supply chain cost management.
- Information technology.
- Performance measure.
- Inventory Management and demand forecasting.
- Relationship management.
- Transportation in a supply chain

Forms of Assessment:

Assignments, exams, case studies, projects, and oral presentations.