

**WILMINGTON UNIVERSITY**  
**COLLEGE OF BUSINESS**  
**BASIC COURSE INFORMATION**

**COURSE TITLE:**           **Materials Management**

**COURSE NUMBER:**       **BBM 310**

**PRE-REQUISITE:**       **BBM 201**

**COURSE DESCRIPTION:**

This course examines the concepts, major issues, and challenges of materials management by following the flow of materials from raw materials through finished goods. Material requirements will be computed and evaluated using qualitative and quantitative materials management approaches such as forecasting, inventory management, scheduling, materials requirements and capacity planning. In addition, methods utilized for receiving, storing, inspecting, packaging, shipping, assembly, and finishing products will be explored to effectively manage inventory and objectives.

**MAJOR INSTRUCTIONAL GOALS:**

**GOAL A:**

The student will develop a broader understanding of materials management concepts and how it advances the inventory strategy.

**Learning Outcomes: The student will:**

- A-1 Summarize materials and capacity management, five major levels in the manufacturing planning and control system, objectives of materials requirements planning, and distribution inventory management.
- A-2 Differentiate three key activities of the production activity control system and four basic strategies used to develop a production plan and the effect on inventory.
- A-3 Develop a master production schedule.
- A-4 Explain inputs to the material requirements planning system, capacity requirements planning, and production activity control.
- A-5 Summarize the four main scheduling techniques and how to manage scheduling issues such as bottlenecks and constraints.

**GOAL B:**

The student will obtain a comprehensive knowledge of inventory management and how inventory is utilized to make a company more flexible and effective.

**Learning Outcomes: The student will:**

- B-1 Summarize classifications, functions and objectives of inventory management.
- B-2 Describe the components of inventory costs used to make inventory management decisions and the correlation between financial statements and inventory.
- B-3 Evaluate inventory management practices applied by companies to manage inventory levels.
- B-4 Perform an ABC analysis.
- B-5 Describe the assumptions for the economic order quantity (EOQ) and compute the EOQ.
- B-6 Determine safety stock levels and order point quantities using materials management techniques.

**GOAL C:**

The student will learn how important it is that companies have a thorough purchasing and warehousing strategy to meet inventory objectives.

**Learning Outcomes: The student will:**

- C-1 Evaluate purchasing objectives and the importance of a purchasing strategy which supports the inventory objectives.
- C-2 Compare methods applied by companies to select and evaluate vendors managing supplier relationships.
- C-3 Summarize outsourcing and describe the benefits of outsourcing to meet

- D-2 Summarize the Sales and Operations Planning process and eight key areas to achieving excellent business performance.
- D-3 Explain how forecasting, materials requirements, and production planning are utilized to accomplish business objectives.

**GOAL E:**