

## Master Syllabus

### OPT 2251 - Supply Chain Operations & Logistics

**Division:** Science, Mathematics and Engineering

**Department:** Operations Technology

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Prerequisite(s):** OPT 1125 OR MAN 2155

**Date Revised:** October 2013

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#### Course Description:

In-depth study of the technical and business functions of operations logistics, materials procurement and management and supply chain development and management in manufacturing, service industries and government in a global economy.

#### General Education Outcomes:

- Written Communication Competency
- Critical Thinking/Problem Solving Competency

#### Course Outcomes:

##### Logistical Management

Describe the concepts of logistics including shipping, warehousing, transportation, packaging, supporting information systems in a global context and their impact on customer service and profitability.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accuracy of 70% or higher on applicable questions and projects by 70% of the students.

##### Supply Chain Management

Explain the functions of supply chains, their purpose, marketing and sales impact, use and management in a global context and their impact on customer service and profitability.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accuracy of 70% or higher on applicable questions and projects demonstrated by 70% of the students.

##### Materials and Production Planning

Apply the concepts of demand forecasting, procurement, inventory management, capacity planning, production planning and material control methods and techniques in a global context, including their impact on customer service and profitability.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Accuracy of 70% or higher on applicable questions and projects demonstrated by 70% of the students.

#### Outline:

Overview  
Logistics  
Supply Chains  
MRP/ERP  
Capacity Planning  
Inventory Planning