

# Minnesota State University Moorhead

## OM 485: Production Inventory Management

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Study and analysis of systems and methods for planning and control of manufacturing resources. The framework of this course is based on the guidelines provided by the American Production and Inventory Control Society. Main topics include master planning, inventory management, material and capacity requirements planning, production activity control, and Just-In-Time.

**B. COURSE EFFECTIVE DATES:** 10/07/2013 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Production planning system
2. Master scheduling
3. Material requirements planning
4. Capacity management
5. Production activity control
6. Purchasing
7. Forecasting
8. Inventory fundamentals
9. Order quantities
10. Independent demand ordering systems
11. Physical inventory and warehouse management
12. Physical distribution

### D. LEARNING OUTCOMES (General)

1. Understand basic concepts of planning problems for general production situations.
2. Analyze fundamental problem areas of production planning and control.
3. Establish the relationships between planning and control activities.
4. Utilize approaches that solve production-related problems, with an emphasis on the analytical approach to problem resolution.
5. Apply integration of production planning activities through discussion of the concepts of planning hierarchy, planning time horizon, time periods, and aggregation.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted