

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: BUS 266 **Credits:** 3

Course Title: Production and Operations Management

Course Description:

Examines the process by which both goods and services- producing businesses, many not-for-profit institutions, and governmental agencies transform resources into an end product to meet the demands of customers or clients. Includes a survey of some of the quantitative methods involved in the process. Lecture 3 hours. Total 3 hours per week.

General Course Purpose:

The purpose of the advanced project management course is to develop additional in-depth competencies in such topics as project charter creation, work breakdown structure (WBS) design, risk management, cost budgeting, scheduling tools (e.g., network diagrams and Gantt charts), team development and motivation, stakeholder management, earned value management (EVM), and other pertinent project management skills.

Course Prerequisites and Co-requisites:

Prerequisite: BUS 204

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Demonstrate an understanding of production as a process of converting or transforming resources into products.
- b. Demonstrate an understanding of the manager's concerns in planning organizing, direction, and controlling productive operations to meet organizational objectives.
- c. Use a variety of problem-solving techniques to aid in effective decision making.
- d. Demonstrate the ability to measure productivity, quality and costs, both direct and indirect.

Major Topics to Be Included:

- OM (operations management)
- Operations strategy
- Competitive advantage
- Statistical process control
- Forecasting demand
- Process strategies
- Capacity planning
- Layout strategy
- Job design principles
- Inventory management
- Supply chain management
- Maintenance and reliability activities

Effective Date/Updated: June 25, 2024