

1. Course Number and Name:

BUAD 3020 Principles of Manufacturing and Service Systems

2. Credits and Contact hours:

Credits: 3 hours, Contact: 3 lecture hours

3. Instructor's or course coordinator's name:

Hao-Wei Chen

4. Text book, title, author, and year:

None

a. Other supplemental materials:

5. Specific Course Information:

a. Brief description of the content of the course (catalog description):

Understanding how the operations and supply chain management processes work and the recent issues and development in supply chain management in practice.

b. Pre-requisites, or co-requisites:

BUAD 1020 or BUAD 2060

6. Specific goals for the course:

a. Specific outcomes of instruction:

1. Understand the process of extracting raw materials from the environment through production, consumption, recycling/reuse and the return of waste materials to the environment.

2. Understand the production and processes that enable smooth transfer of products across the supply chain up to the customer.

3. Understand basic processes that enable organization to match supply of products with demand for products.

b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course:

None

7. Brief list of topics to be covered:

1. Operations and supply chain management.

2. Strategy and sustainability.

3. Manufacturing Processes.

4. Service Processes.

5. Sales and Operations Planning.

6. Material Requirements Planning.

7. Inventory management.

8. Quality management and Six Sigma.

9. Global Sourcing and Procurement.