# OPERATIONS & SUPPLY CHAIN MANAGEMENT

## SCM 502: Quarter II Full-Time MBA Program

W.P. Carey School of Business, Arizona State University

**Instructor** Harish Guda

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Slack hguda

Contact Canvas Messages or Slack

Class Hours (Gold) 8am – 10:05am (Monday and Wednesday)

MCRD 264

Office Hours 1pm-2pm (Monday and Wednesday)

BA 427

### **Course Pages**

- 1. Canvas: All course content such as announcements, slides, homework, grades and other required reading will be made available on Canvas. Contact me through messages.
- 2. Slack: If you need to urgently contact me, please Slack me.

#### Required Material The following material are required for the course.

- 1. Please purchase the case packet available at HBP: Case Packet 990021. The case packet contains the following required cases:
  - (a) Kristen's Cookie Company,
  - (b) National Cranberry Cooperative,
  - (c) Delays at Logan Airport,
  - (d) Three Jays Corporation,
  - (e) LL Bean.

The case packet also contains the following optional lecture notes:

- (a) Operations Management Reading: Process Analysis,
- (b) Operations Management Reading: Managing Queues,
- (c) Operations Management Reading: Managing Inventory.
- 2. Access to a spreadsheet software (e.g., Microsoft Excel). See here for access to Microsoft Excel through ASU.

**Data Requirements** Any supplemental data required to complete homeworks will be provided on Canvas.

Supplementary Material (Optional) This is a small list of resources useful for the course.

- Gerard Cachon, Christian Terwiesch, Matching Supply with Demand: An Introduction to Operations Management, McGraw-Hill, 3rd edition. See Online.
- The Goal: A Process of Ongoing Improvement (30th edition), by Eliyahu M. Goldratt (approx. cost = \$22)
- R and R Studio: Both R and R Studio are available for free See here for details. There are plenty of resources online; please contact me if you have any questions regarding installation and/or use. These software are useful for statistical analysis or simulation.
- The Wall Street Journal (WSJ): You have access to the Wall Street Journal through ASU Library Services. Articles from WSJ and other practice-oriented journals/popular outlets will be posted in-class/Canvas. You are encouraged to read these articles.

**Description** Broadly, there are two modules in this course: *Operations Management* (OM) and *Supply Chain Management* (SCM).

• Operations Management: Any business can be thought of as a process by which inputs of materials, labor, capital, and information are transformed into products and services which customers want and are willing to pay for. Operations Management (OM) is the cost effective management of resources to achieve organizational goals. OM focuses on the systematic planning, design, operation, control, and improvement of the processes which produce goods and deliver services.

Managing operations through effective and efficient utilization of resources is key for any organization to be successful in the long run. This is especially true today, when we see that significant competitive advantages accrue to those firms that manage their operations effectively.

By using a *process view* of an organization or a supply chain, we provide a framework for analyzing and solving a wide range of business problems in this course.

• Supply Chain Management: A supply chain comprises of all the parties involved in fulfilling a customer request. The integrated management of this network is a critical determinant of success in today's competitive environment. Supply Chain Management (SCM) requires cross-functional integration of key business processes (discussed in the Operations Management module) within the firm and across the network of firms that comprise the supply chain. Companies like Amazon, Procter & Gamble, and Wal-mart are proof that excellence in supply chain management is a must for financial strength and industry leadership.

The challenges lie in determining how to successfully integrate all stakeholders of a supply chain.

### Tentative Course Schedule

The schedule below is tentative. Changes to the schedule will be announced in-class.
Session $1.1^a$
Session 1.2
Session 2.1
Session 2.2 Link Between OM and Marketing, Finance Demand vs. Supply Constrained Process, Little's Law, Inventory Turns, Inventory and Cost of Goods Sold
Session 3.1
Session 3.2
Session 4.1
Session 4.2 Exam #1 Exam During Class Hours
Session 5.1
Session 5.2
Session 6.1
Session 6.2
Session 7.1
Session 7.2
Session 8.1 Exam #2 Exam During Finals' Week

<sup>&</sup>lt;sup>a</sup>Session w.d refers to the session on day d in week w, where d = 1 (resp., 2) refers to Monday (resp., Wednesday). For example, Session 1.1 refers to Monday's session in week 1.

### **Important Dates**

#### Homework

Session 2.1 Kristen Cookie Company
Session 3.1National Cranberry Cooperative
Session 4.1 Delays at Logan Airport
Session 6.1 Three Jays Corporation
Session 7.1 LL Bean
Exams
Session 4.2 (In-Session) Exam #1 $\blacksquare$ In-class exam for 120 minutes.

**Grading Policy** Three components determine your grade: Exams, Case Homeworks and Case Presentation. The relative weights are as follows:

Session 8.1 (Finals' Week) ...... Exam #2

Exam during the Finals' week for 240 minutes.

Exams	60%
Case Homeworks	30%
Process Identification and Report	10%

Grades will be assigned based on a curve fitted to the cumulative final score. The guidelines of the curve are as follows:

- The median score will receive a B+.
- Anything above that can be an A+, A, A-.
- Scores below the median may be B+, depending on the distribution.

All grades (homeworks or exams) must be contested within a week of posting the grades. Grades not contested within a week are considered *final* and will not be changed.

Learning Objectives The key learning objectives of this course are:

- Gain an understanding of operations management and its importance in today's business environment.
- Understand process measures in manufacturing and service systems with regards to key operational dimensions.
- Design and compute optimal operational decisions and policies, and evaluate performance measures pertaining to costs and revenues.

• Develop deep analytical thinking in operations practices.

**W.P.** Carey Learning Goals The Full-Time MBA program at the W.P. Carey School of Business has established the following learning goals for its graduate students (Items in bold have significant coverage in this course):

- 1. Critical Thinking.
- 2. Communication.
- 3. Discipline-Specific Knowledge.
- 4. Ethical Leadership or Global Leadership

Classroom Decorum To facilitate learning, students are encouraged to attend class on a regular basis.

- Class sessions will focus on active learning methods in which students will be given a chance to explore the topics from the readings more deeply.
- These in class exercises are based on problems drawn directly from industry. As such, class attendance is important as is the need to do the reading before class
- Please avoid disturbing other students in class.
- There are no extra credit opportunities.
- Late homeworks are not accepted under any circumstances (Remember that best 5 out of 6 homeworks count. Use them wisely!)
- Make-up exams are offered only under special circumstances If you end up taking a make-up exam, you must take the exam before the scheduled date. Please contact me regarding any special needs, should you take a make-up exam.
- You are obligated to read, understand, and obey the ASU Student Academic Integrity Policy and the W. P. Carey student Honor Code. Students found to have engaged in any form of academic dishonesty will be subject to sanction.

Prohibition Against Discrimination, Harassment, and Retaliation Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited.

An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources here.

As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, is available if you wish to discuss any concerns confidentially and privately.

**Absence Policies** Attendance in class is not required, but is highly recommended. However, any missed quizzes or assignments will not be made up except in the case of emergency unless documentation is provided. Exceptions to this are described in the Religious Accommodations and University- Sanctioned Activities described below.

Religious Accommodations Accommodations will be made for students with religious holidays: Here is the calendar of official religious holidays. Each holiday noted with two asterisks denotes an observance for which work is not allowed. For these holidays, students will not be penalized in any way for missing class or assignment. This means that this will not count as an absence in class and they will be granted a makeup assignment or exam, etc., as needed.

University-Sanctioned Activities Accommodations will be made for students who miss class related to university-sanctioned activities according to ACD 304-02. If you are participating in a university-sanctioned activity, please let me know as early in the course as possible so that accommodations can be made.

**Instructor Absence Policy** In the event the instructor fails to indicate a time obligation, the time obligation will be 15 minutes for class sessions lasting 90 minutes or less, and 30 minutes for class sessions lasting more than 90 minutes. Students may be directed to wait longer by someone from the academic unit if they know the instructor will arrive shortly.

Threatening Behavior Policy The university takes threatening behavior very seriously and these situations will be handled in accordance with the Student Services Manual, SSM 104-02.

**Disability Accommodations** If you need an accommodation for a disability, you must register with the Disability Resource Center (DRC).

MBA Academic Policies A detailed review of MBA academic policies is available here.