

**Moraine Valley Community College**  
**Palos Hills, Illinois**  
Division of Academic Affairs

**Course Syllabus Template**

TDWL Inventory Control

**Part 1. Instructor and Section Information**

Instructor's Name \_\_\_\_\_

Office Location \_\_\_\_\_ Mailbox Location \_\_\_\_\_

Office Hours \_\_\_\_\_

Office Phone \_\_\_\_\_ E-mail \_\_\_\_\_ Web page \_\_\_\_\_

Semester \_\_\_\_\_ Section Number \_\_\_\_\_ Room Number \_\_\_\_\_

Days and hours this section meets \_\_\_\_\_

First day of class \_\_\_\_\_ Last day of class \_\_\_\_\_ Date of final exam \_\_\_\_\_

**Part 2. Course Information**

I. **Effective Date** January or August, 2007\_\_

II. **Course Identification**

*Prefix and Number* \_\_\_\_\_

*Course Title* \_\_\_\_\_TDWL Inventory Control\_\_\_\_\_

*Contact Hours*

\_\_\_ 3 *Lecture/Demonstration*

\_\_\_ *Lab/Studio*

\_\_\_ 3 *Total contact hours per week*

\_\_\_ 3 *Credit Hours*

III. **Catalog Description**

*Prerequisite* \_\_\_Intro to Business Logistics\_\_\_

*Corequisite* \_\_\_\_\_

*Course Description*

This course covers the fundamental principles of inventory control. Inventory management measurements and techniques will be explained. The financial importance of inventory management and control and its relationship to company financial statements will be reviewed. Students will learn the role of inventory control management in supporting the supply chain process.

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*Illinois Articulation Initiative number* \_\_\_\_\_

IV. **Major Course Concepts**

1. Inventory classifications – raw materials, work-in- process, and finished goods.
2. Using the 80/20 rule and ABC classifications.
3. Inventory turnover and other performance measurements.

4. Principles of Material Requirements Planning and MRPII.
5. Inventory control systems.
6. Internal and external lead time and cumulative lead time.
7. Role of inventory in the logistics process and organization.
8. Physical inventories and cycle counting.

**V. Expected Outcomes for Student Learning**

*A. General Education learning outcomes*

*B. Course content learning outcomes*

Upon completion of this course, a student will be able to:

1. Learn the fundamental principles of inventory control.
2. Understand inventory classifications.
3. Explain the importance of accurate inventory records and how they can be maintained.
4. Calculate inventory turnover using both the average method and point-in-time.
5. Understand the evolution of MRP and MRPII. Perform calculations of order point, EOQ's and MRP.
6. Explain internal vs. external lead time. Understand the principle of cumulative lead time.
7. Learn what inventory carry cost includes.
8. Explain how to avoid accumulating excess and obsolete inventory.
9. Understand how inventory control fits in the logistics organization.
10. Learn how to use physical inventories and cycle counting.

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**Part 3. Classroom Information**

**I. Topical Outline/Course Schedule/Calendar**

Week 1. Introduction to inventory control. Discussion of principles. Reasons why companies have inventory.

Week 2. Inventory classifications. Applying the 80/20 rule.

Week 3. Inventory record accuracy. Physical inventory and cycle counting.

Week 4. Inventory performance measurements. Inventory turnover.

Week 5. Understanding lead time. Internal and external lead time. Cumulative lead time.

- Week 6 and 7. Calculating material requirements. Order point. MRP and MRPII.
- Week 8. Distribution requirements planning (DRP), where and how it is used. Mid term exam
- Week 9. Inventory and purchasing management – materials management issues.
- Week 10. Inventory and supplier stocking programs.
- Week 11. Inventory carrying cost. Impact of inventory on the balance sheet and income statement.
- Week 12. Excess and obsolete inventory. How to prevent accumulating excess inventories.
- Week 13. New product introduction and inventory management.
- Week 14. Inventory shrinkage – prevention and controls.
- Week 15. Inventory control – where it fits in the supply chain process and organization.
- Week 16. Final exam

**II. Books, Supplies, and Supplementary Materials**

*a. Textbooks/Reading list*

*Required*

1. \_\_\_\_\_ Inventory Management: Principles, Concepts, and Techniques, Toomey, ISBN 9780792383246 \_\_\_\_\_

- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

*Optional*

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

*b. Supplementary materials*

*Required*

\_\_\_\_\_

*Optional*

\_\_\_\_\_

**III. Classroom Policies and Procedures**

*a. General Information*

*b. College Statement about grades of 'F' and withdrawal from class*

A student who does not withdraw officially from a course may receive a grade of 'F', depending on course progress or course attendance, which will become a part of the student's permanent record. The withdrawal date is listed in the General Information sheet.

*c. Final Exam Information*

d. *Attendance Policy*

e. *Cheating/Plagiarism Policy*

f. *College Documentation Styles*

MLA and APA have been adopted as the official documentation styles of the college. The selected documentation style for this class is \_\_\_\_\_.

g. *Code of Student Conduct*

Each student is responsible for adhering to the Code of Student Conduct as stated in the college catalog.

h. *Cautionary Statement*

Students with an impaired ability to concentrate may risk jeopardizing safety in the classroom for themselves, their classmates and their instructor. If your ability to concentrate is impaired you should discuss this matter with your instructor prior to operating equipment or performing a laboratory procedure. Students are responsible for reporting to their instructor any condition that would impair the ability to concentrate. Failure to notify your instructor of this issue may be a violation of the Code of Student Conduct.

i. Testing Center

j. Safety or Health issues

**IV. Graded assignments and policies**

a. *Graded Assignments*

b. *Major Tests and Quizzes*

c. *Final exam*

d. *General grading policy, including criteria and weighting for final semester grade*

e. *Make-up policy*

f. *Extra-credit policy*