# KISHWAUKEE COLLEGE SYLLABUS FALL,20XX

INTRO TO MFG MAINTENANCE (2 Credits) MT 108XXXX

Class day(s), Class time, Class location

Start and end dates

Bob Lawrence

Building A1423

Office Hours: by appointment only

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Prerequisite: None COURSE DESCRIPTION

Provides a basic understanding of tools and equipment used in manufacturing, as well as

knowledge of how to improve productivity through predictive and preventive maintenance. Students will have the opportunity to earn Maintenance Awareness Certification through Manufacturing Skill Standards Council. (MSSC). One hour lecture/discussion and two hours lab a week.

METHODS OF PRESENTATION

1. Lecture
2. Lab demonstration and practice
3. Problem solving and discussion

STUDENT OUTCOMES:

1. identify common tools and equipment.
2. identify how tools and equipment are used in manufacturing.
3. identify proper tool maintenance and housekeeping procedures.
4. identify safety systems and sensors on tools and equipment.
5. explain the purpose of preventive and predictive maintenance.
6. understand technical manuals and SOPs.

7.

# ADDITIONAL STUDENT REFERENCES:

Machinist ready reference, Machine Tool Processes (text)

Various internet sites and reference manuals for equipment used in this class

TEXTBOOK *I* INSTRUCTIONAL MATERIALS:

Manufacturing Skill Standards Council, *High-Performance Manufacturing,* Woodland Hills, CA, 2006

METHODS OF EVALUATION

* 1. Tests and quizzes
	2. Student presentations

BREAKDOWN OF COURSE REQUIREMENTS Exams ................58%

Quizzes ..............14%

Papers................ 14%

Participation ....... 7%

Homework .......... 7%

FINAL GRADE DETERMINATION

90-100 =A

80- 89 = B

70-79 = c

60-69 = D

59- below= F

Grade reports will not be mailed out. Please check KishSOS, My Student Info, under Academic Profile, Grades, for grade reports.

TOPICAL OUTLINE

Week 1 Week2 Week3 Week4 Week 5

Week6 Week7

Week 8

Week 9

Introduction, discussion of course objectives, student outcomes and assessment Tools on the job

Continue discussion of tools for the job

Computers in manufacturing Tool related safety

Quiz on tools and safety Ergonomics

Continue with ergonomics Review for Midterm Exam

Midte1m Exam

Retun1 Midterm Exam and discuss

Week.lO Preventive Maintenance

Week 11 Continue with Preventive Maintenance

Week 12 Lab activities on preventive maintenance (CNC machine maintenance) Week 13 Predictive maintenance

Week 14 Equipment procedures and training

Week 15 Continue with procedures and training Review for Final exam

Week 16 Final exam (Date, Time and Location)

MAIZE-UP POLICY

For tests and other course requirement LEARNING SKILLS CENTER (A-300)

Tutoring and testing is available to all Kishwaukee students free of charge. Students must present their Kishwaukee College student ID when using any Learning Skills Center services. No appointment is necessary for assistance in English. For more information on the Leaming Skills Center go to [www.kishwaukeecollege.edu/](http://www.kishwaukeecollege.edu/) go/lsc/

The Writing Center (A-306) answers your writing-related questions regardless of the

class or assignment. No appointment is necessary, and students can get help individually or in small groups. Also available are workshop opportunities for any size group.

WITHDRAWAL POLICY

A "W" will not be given as a final grade. The student is responsible for officially withdrawing from the class according to procedures described in the college catalog. Any student that does not officially withdraw from the class will receive a letter grade. The last date for withdrawal for this course can be found at "MY CLASS SCHEDULE" onKishSOS.

CLASS CANCELLATIONS

Class cancellations due to inclement weather will be announced on local

radio stations or posted on the College Web site: [www.kishwaukeecollege.edu.](http://www.kishwaukeecollege.edu/)

Students may also call the College at (815) 825-2086. Class cancellations due to instructor absence will be posted on the classroom door and posted at [www.kishwaukeecollege.edu/class](http://www.kishwaukeecollege.edu/class) cancellations. Room changes

will be announced in advance whenever possible and posted on the classroom

door.

EMERGENCY PROCEDURES/SAFETY

Yellow and red *Emergency Information Flip Charts* are located in each classroom. These are quick reference sheets with telephone numbers to reach emergency assistance and a brief description of the correct actions to take in the event of a tornado, fire or other emergency on campus.

GRADUATION REQUIREMENTS FOR TRANSFER DEGREE STUDENTS

All students intending to graduate with an A.A., A.S., A.E.S., or A.F.A. are required to complete a Degree Portfolio. The Degree Portfolio is a means for the institution to measure its effectiveness in preparing students for successful completion of a degree at a transferring institution. Save your college-level work throughout your academic career in order to facilitate the portfolio compilation. Also, submit a completed application for graduation from the college the semester that you plan on graduating prior to submitting the Degree Portfolio. Guidelines and the specific requirements (along with the rubrics used for assessment) for the Degree Portfolio can be found at [www.kishwaukeecollege.edu/portfolio.](http://www.kishwaukeecollege.edu/portfolio)

ACADEMIC HONESTY

Academic honesty is essential in a college community. In order to evaluate student work, faculty must be able to trust that the work is original with a student and not the work of someone else. Plagiarism, cheating, or other dishonest actions will not be tolerated, and the penalties for such actions are at the discretion of the instructor. A complete explanation of the policy and procedures surrounding academic honesty are outlined in the Kishwaukee College Catalog.

COPYRIGHT

As a Kishwaukee College Student, you may have software made available to you by the college for course use. Please understand that copyright law may prohibit copying these materials. Violation of copyright laws can lead to prosecution for a criminal offense.

ASSISTIVE RESOURCES CENTER/DISABILITY SERVICES

Any student having a documented disability or special learning need and wanting to request accommodations, should contact the Coordinator in A 317 or at (815) 825-2086 Ext 3960, (815) 825-9106 (TTY), or send an email to awilson@kishwaukeecollege.edu. The student's disability must impact their ability to participate in the educational environment and be documented by an appropriate professional prior to accommodations being approved. -

STUDENT E-MAIL

Your Kishwaukee College e-mail account will be the only way to receive official notices from the college. If you choose to forward your e-mail to another accmmt, please be advised that all communication from and within the college will use your Kishwaukee

student e-mail. When communicating with instructors or employees of the college, you are required to use your Kishwaukee e-mail address.

Language on the syllabi course materials developed by INAM funds:

From the grant agreement’s Part IV  Special Conditions, Item 15, Intellectual Property Rights, the following needs to be on all products developed in whole or in part with grant funds:

“This workforce solution was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timelines, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for  non-commercial purposes, is permissible. All other uses require the prior authorization of the copyright holder.”