**KISHWAUKEE COLLEGE SYLLABUS**

**AUTOMATED ENGINEERING TECH (MT)**

**Spring 2013**

Course Title: Print Reading for Industry

Prerequisite: None

Number of Credits: Two (2), One (1) Hour Lecture/Discussion and Two (2) Hours Lab a Week

Course Number: MT-101

Course Ref. Number: 5001 (18362)

Classroom Number: A - 421

Day & Time: Thursday, 4:00 p.m. – 6:30 p.m.

Start & End Date: 01/17/13 – 05/14/13

Mid Term Date: Thursday 3/8/13, 4:00 p.m. - 6:30 p.m.

Final Exam Date: Tuesday 5/14/13, 4:00 p.m. – 5:50 p.m.

Instructors Name: Rick Bunton

Office Location: A - 426

Office Hours: Tues/Thursday 3:00-4:00

Work Phone: 815-825-2086 x 6084

Home Phone: 815-762-3207

E-mail: richard.bunton@kishwaukeecollege.edu

**Course Description:** Emphasis on analysis and interpretation of drawings applicable to the metal trades. Includes principles of multi-view projection, 6084s lab a week.

**Expected Learner Outcomes:** Given an engineering drawing of an object, the student will:

1. Identify the object, the title block, and change notes.
2. Form a vivid idea of the shape of the object based on the pictorial elements of the drawing.
3. Recognize features represented by various conventional, abstract-symbolic systems.
4. Determine the dimensions and dimensional tolerance of the object and its features.
5. Determine the tolerance imposed by Geometric Dimensioning and Tolerance Symbols.

**Required Texts:** Print Reading for Industry Ninth Edition, Walter C. Brown, Ryan K. Brown, Publisher: The Goodheart-Willcox Company, Inc.

**Required Student Materials:** Texas Instruments, TI-30X IIS calculator, Protractor, 2 H pencils, 6 inch steal rule (quick-reading 10ths, aircraft quick-reading 100ths, 32nds and 64ths). and pad of graph paper.

**Additional Student References:** Machinist’s Ready Reference, C. Weingartner.

**Breakdown of Course Requirements:**

1. Homework: 480 12@40 pts. Each
2. Quizzes: 150 2@75 pts. Each
3. Mid Term: 100
4. Final: 100
5. Participation \_25

855 Total Points

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

855 - 770 = A

769 - 684 = B

683 - 599 = C

598 - 513 = D

512 - below = F

**Attendance Policy:** Due to the structure of this class, students will be expected to be on time for every class. Five (5) points for each absence in excess of two (2) will be deducted from the final grade total unless arrangements are made between the instructor and the student prior to the next class meeting.

**Make-up Policy for Tests and Other Course Requirements:**

1. Homework should be turned in on time. Work turned in on time will receive full credit.
2. Illness or absence due to family trips, medical leave, etc. will be dealt with separately. Makeup assignments/tests not completed due to illness will be accepted for full credit when turned in within a reasonable time frame (the following class meeting), which will be determined on an individual basis.

**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 Learning Skills Center go to [www.kishwaukeecollege.edu/learning\_skills\_center](http://www.kishwaukeecollege.edu/learning_skills_center)

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 day for withdrawal for this course can be found at “MY CLASS SCHEDULE” on KishSOS. The last day to withdraw from this course is Monday, April 29, 2013.

**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 [ww.kishwaukeecollege.edu/class\_cancellations.](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 Students:** All students intending to graduate with an A.A., A.S., A.E.S., or A.F.A. are required to submit a Degree Portfolio. The Degree Portfolio is a way for the institution to measure its effectiveness in preparing students for successful completion of a degree at the transferring institution. Save your work throughout your career at the college in order to facilitate the portfolio compilation. Submit a completed application for graduation from the college the semester that you plan on graduating prior to submitting the Degree Portfolio. 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](mailto: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 Email:** 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 account, 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.

**Tentative Course Outline:**

Week 1, Jan. 17: Unit 1: Prints: The Language of Industry. Appendix A: Applied Mathematics.

Week 2, Jan. 24: Unit 2: Line Conventions and Lettering. Appendix C: Basic Technical Sketching and Lettering.

Week 3, Jan. 31: Units 3, 4: Title Blocks and Part Lists. Geometric Terms and Construction.

Week 4, Feb. 07: Units 5: Multiview Drawings. Appendix D: Sketching Pictorial Drawings

Week 5, Feb. 14: Quiz

Week 6, Feb. 21: Units 6, 7, 8: Section Views. Auxiliary Views. Screw Thread Representation.

Week 7, Feb. 28: Units 9, 10: Dimensioning. Tolerancing. Appendix B: Measurement Tools.

Week 8, Mar. 08: Mid Term.

Week 9, Mar. 14: No Class – Spring Break

Week 10, Mar. 21: Units 11, 12: Machining Specifications and Drawing Notes. Surface Texture Symbols. Appendix E: Abbreviations and Tables.

Week 11, Mar. 28: No Class – Staff Development Day

Week 12, Apr. 04: Units 13, 14: Geometric Dimensioning and Tolerancing. Drawing Revision Systems

Week 13, Apr. 11: Units 15, 16: Detail Drawings. Assembly Drawings

Week 14, Apr. 18: Quiz.

Week 15, April 25: Units 17, 18, 19: Springs and Fasteners in Industrial Prints. Gears, Splines, and Serrations. Cam Diagrams and Prints.

Week 16, May 02: Units 20, 21, 22: Cam Diagrams and Prints. Plastic Parts. Welding Prints.

Week 17, May 09: Unit 23: Instrumentation and Control Drawings.

Week 18, May 14: Final Exam \*\*Note this is a Tuesday\*\*

**Course outline is subject to change.**

“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.”