Prairie State College

Industrial Technology

Basic Mathematics for the Skilled Trades

Course Syllabus

Spring 2014

COURSE INFORMATION

PREFIX/NUMBER: DRAFT 115-S1

TITLE: Blueprint Reading for Mechanical Trades

CREDIT: 2 Hours

PREREQ: None

MEETING PLACE: Main Campus Room 4240

MEETING TIME: **Wednesdays: 3/19/14- 5/14/14**

**8 weeks from 6:00 pm to 9:40 pm**

LECTURE/LAB TIME: 2 HOURS

INSTRUCTOR INFORMATION

INSTRUCTOR: William Kuban

OFFICE: T 145

TELEPHONE: 708-709-3783

E-MAIL: wkuban@prairiestate.edu

OFFICE HOURS: By Appointment

MAIL BOX: 108

RECOMMENDED TEXT/SUPPLEMENTAL MATERIALS

TEXT: *Print Reading for Industry 9th Edition, with Fourteen Large Prints*: Walter C. Brown,

Ryan K. Brown ISBN#: 978-1-60525-308-4

RECOMMENDED None

SUPPLEMENTALS:

COURSE DESCRIPTION:

WHAT YOU NEED TO

SUCCEED:

ASSESSMENT:

ATTENDANCE POLICY:

ACADEMIC INTEGRITY

POLICY:

DISABILITIES:

RELIGIOUS

OBSERVANCE:

This is a continuation of DRAFT 101 and DRAFT 102 with emphasis on blueprint reading, involving the reading of mechanical drawings. Topics include reading the working drawing, assembly drawings, using special views, reading symbols, fits and finish marks, threads and tapers, sectioning and auxiliary views.

Besides a willingness to learn, a Textbook, and regular attendance, expect an average of 2 hours per week on homework.

Evaluation: Attendance 20%, Quizzes 20%, Tests 20%, Homework 20%, and Final 20%.

a. A final score of 90% and above will be awarded a course grade of A

b. A final score of 80% to 89% will be awarded a course grade of B

c. A final score of 70% to 79% will be awarded a course grade of C

d. A final score of 60% to 69% will be awarded a course grade of D

e. A final score below 60% will be awarded a course grade of F

1. A final grade of FW will be assigned to students who fail to participate in course activities through the end of the semester.

Excessive unreported absenteeism will result in a drop from the course.

Cheating and/or plagiarism in any form will not be tolerated and may result in failure of the course. Violations of College policy concerning cheating will be determined by criteria printed in the College Catalog and Board Policy F-15.

Your success in this course, as well as any course I offer, is important to me. If you have a disability that requires some accommodations, please notify me, so I can refer you to the director of disability services.

The student is required to let the instructor know, during the first week of the semester, if he/she is planning to miss any classes due to religious observance.

**Course Goals/Objectives:** Upon successful completion of this course, students will be able to:

Upon successful completion of this course, students will be able to:

 1. Read blueprints from design concept to the finished product.

2. Demonstrate an understanding of the various views, assembly drawings and the material process used in industrial blueprints.

**Detailed topical course outline**

1. Blueprints from Design to Product

II. From Blueprint to Visualization

III. Understanding the Various Views

IV. Reading the Working Drawing

V. Understanding Supplementary Information

VI. Using Special Views and Assembly Drawings

VII. Understanding Materials and Processes

VIII. Actual Production Blueprints

IX. Reading Industrial Blueprints

**Methods of evaluation**

Tests

Homework

 Class Participation

All Homework Questions are due on date provided. If you are absent that day you can turn in the work the following class you return. If you are present for class and do not turn in your homework it must be turned in the following class or you get a zero for the homework in question. NO EXCEPTIONS!!

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| --- | --- | --- | --- |
| Date | Chapters | Assignment | In-Class |
| 3/19/2014 | 1, 2 & 3 | Questions Pg. 16, Questions Pg. 25, Activity 2.1 Pg. 26, Questions Pg. 43 |   |
| 3/26/2014 |   | Spring Break |   |
| 4/2/2014 | 4 & 5 | Questions Pg. 61, Activity 4.1 Pg. 62, Questions Pg. 84, Activity 5.1 Pg. 85 | Quiz 1, 2, & 3 |
| 4/9/2014 | 6, 7 & 8 | Questions Pg. 106, Activities 6-2, 6-3 Pgs. 108-110, Questions Pg. 126, Questions Pgs. 147-148, Activity 8-1 Pg. 149 |   |
| 4/16/2014 | 9 & 10 |   | Quiz 4, 5, 6, 7, & 8 |
| 4/23/2014 | 11 & 12 |   |   |
| 4/30/2014 | 13 & 14 |   | Quiz 9, 10 11, 12, 13 & 14 |
| 5/7/2014 | 15 & 16 |   |   |
| 5/14/2014 | Final | Final | Final |

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