



COURSE OUTLINE

DRF0105

Prepared: Howard Gray Approved: Corey Meunier

Course Code: Title	DRF0105: DRAFTING AND BLUEPRINT READING						
Program Number: Name	1120: COMMUNITY INTEGRATN						
Department:	C.I.C.E.						
Semester/Term:	17F						
Course Description:	In a hands-on environment students will learn blueprint reading, geometric dimensioning and tolerancing (G.D. & T.) and be introduced to AutoCAD. The course will commence with skill development in blueprint reading. These skills shall be applied to the machinist's trade and related areas. New information has been added to explain computer-aided design, new dimensioning practices, and assembly drawing interpretation. Using common shop terminology, industrial prints will be interpreted. G.D. & T. includes reading dimensional drawings in fractions, decimals and in metric units. AutoCAD is taught so that upon completion students can create computerized, mechanical drawings.						
Total Credits:	3						
Hours/Week:	2						
Total Hours:	30						
Essential Employability Skills (EES):	#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #6. Locate, select, organize, and document information using appropriate technology and information systems. #10. Manage the use of time and other resources to complete projects. #11. Take responsibility for ones own actions, decisions, and consequences.						
Course Evaluation:	Passing Grade: 50%, d						
Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>assignments</td> <td>70%</td> </tr> <tr> <td>Exam</td> <td>30%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	assignments	70%	Exam	30%
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Books and Required Resources:	Blueprint Reading for the Machine Trades by Russ Shultz and Larry Smith Publisher: Pearson Edition: 7th						



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ISBN: 0-13-217220-8
Drafting Kit for DRF105 (available at the Campus Bookstore)

Course Outcomes and Learning Objectives:

Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes:

Course Outcome 1.

Upon successful completion of this course, the student will demonstrate the ability to use:
Drawing instruments

Learning Objectives 1.

- Identify drafting instruments
- Use drafting instruments correctly
- Use correct drafting techniques

Course Outcome 2.

Upon successful completion of this course, the student will demonstrate an understanding of
Orthographic Drawings

Learning Objectives 2.

- Interpret the information found in the title box
- Discuss the parameters of using up to six view orthographic drawings
- Understand first and third angle projections
- Draw with instruments, orthographic drawings,
Transfer surfaces and add all Dimensions
- Correct missing or incomplete views

Course Outcome 3.

Upon successful completion of this course, the student will demonstrate the ability produce both



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Isometric and Oblique sketches

Learning Objectives 3.

- Discuss the advantages of isometric sketching
- Discuss the advantages of oblique sketching
- Sketch isometric views
- Sketch oblique views

Course Outcome 4.

Upon successful completion of this course, the student will be able to interpret the various Dimensioning and tolerance techniques used on blueprints:

Learning Objectives 4.

- Use proper symbols and lines
- Discuss dimensioning techniques
- Apply tolerance techniques
- Produce complete accurate scale drawings

Course Outcome 5.

Upon successful completion of this course, the student will be able to interpret the various Sectional views and Fasteners used on blueprints:

Learning Objectives 5.

- Discuss and draw ,full, half and partial sections
- Identify different thread types on the drawing
- Use standard thread designations

Course Outcome 6.

Upon successful completion of this course, the student will be able to interpret the various



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Styles of blueprints

Learning Objectives 6.

- Read both detail and assembly drawings
- Recover the information required from assembly drawings
- Use the information found on detail drawings to check or reproduce a component

CICE Modifications:

Preparation and Participation

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.

A. Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and must be discussed with and agreed upon by the instructor.

B. Tests may be modified in the following ways:

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

C. Tests will be written in CICE office with assistance from a Learning Specialist.

The Learning Specialist may:

1. Read the test question to the student.



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2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

D. Assignments may be modified in the following ways:

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.

The Learning Specialist may:

1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

E. Evaluation:

Is reflective of modified learning outcomes.

NOTE: Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

Date:

Wednesday, September 6, 2017

Please refer to the course outline addendum on the Learning Management System for further information.