COURSE OUTLINE: DRF120 - DRAFTING BP READING

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Course Code: Title	DRF120: DRAFTING AND BLUEPRINT READING BASICS
Program Number: Name	4005: PRE-TRADES TECHNOLGY
Department:	PRE-TRADES & TECHNOLOGY
Semesters/Terms:	21F, 22W, 22F
Course Description:	The tradesperson is often required to receive and transfer technical information. Technical drawings, free hand sketches, schematics and flow diagrams are forms of this information transfer. This introductory course will expose the student to these methods of information transfer by drawing objects using standard drafting techniques, making complete, neat free hand sketches. Students will also use CAD software to create and interpret digital drawings.
Total Credits:	2
Hours/Week:	2
Total Hours:	30
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Substitutes:	DRF105
Vocational Learning Outcomes (VLO's) addressed in this course: **Please refer to program web page for a complete listing of program outcomes where applicable.**	**4005 - PRE-TRADES TECHNOLGY** VLO 1 Function at a level of mathematics suited to the student's post-secondary program aspirations. VLO 4 Develop effective learning and study skills. VLO 7 Obtain basic technical skills and introduce students to the theory and lab content of a variety of technical disciplines. VLO 8 Demonstrate computer literacy.
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 3 Execute mathematical operations accurately. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 50%, D A minimum program GPA of 2.0 or higher where program specific standards exist is required

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.

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	for graduation.
Other Course Evaluation & Assessment Requirements:	Attendance - 1% may be deducted for late arrival and/or early leaving where not approved by instructor. Cell phones must be turned off while in the classroom Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F(Fail) 49% and below 0.00 CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field /clinical placement or non-graded subject area. U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course. NR Grade not reported to Registrar`s office. W Student has withdrawn from the course without academic penalty.
Books and Required Resources:	Blueprint Reading for the Construction Trades by Peter A. Mann Publisher: Micro-Press ISBN: 0968835368 Drafting Kit for DRF120 (available in Campus Book Store)
Course Outcomes and Learning Objectives:	*(table below)*

Course Outcome 1	Learning Objectives for Course Outcome 1
1.Drawing Instruments	1.1 With assorted problems, learn the proper use of drafting instruments. 1.2 Read and interpret measurements using drawing scales.
Course Outcome 2	**Learning Objectives for Course Outcome 2**
2. Recognize, use and develop orthographic views.	2.1 Sketch free hand assorted orthographic drawings 2.2 Draw, with instruments, assorted orthographic drawings 2.3 Working with orthographic views, demonstrate the ability to transfer surfaces, add missing views and finish incomplete views. 2.4 Apply dimensions and text annotation to drawings.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
3. Recognize, use and develop isometric views.	3.1 Understand the advantages and limitations of isometric drawings. 3.2 Sketch freehand isometric views. 3.3 Draw isometric views to scale.
Course Outcome 4	**Learning Objectives for Course Outcome 4**
4. Read and interpret residential (wood frame) construction drawings.	4.1 With a set of house plans complete an isometric drawing of one room. 4.2 Calculate various amounts of building materials required 4.3 Using excerpts from buildings codes, understand why

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	certain construction techniques are used. 4.4 Answer questions regarding construction by interpreting residential wood frame drawings.
Course Outcome 5	**Learning Objectives for Course Outcome 5**
5. Read and interpret commercial construction (masonry and steel) drawings.	5.1 Using commercial drawings answer varied questions pertaining to the trades involved in the construction process.
Course Outcome 6	**Learning Objectives for Course Outcome 6**
6. Industrial applications	6.1 Using industrial drawings, schematics and flow diagrams answer varied questions pertaining to the trades involved in construction and maintenance.
Course Outcome 7	**Learning Objectives for Course Outcome 7**
7. Computer Aided Drafting Applications	7.1 Use AutoCAD to open and view drawing files. 7.2 Measure distances and areas using CAD. 7.3 Gather information from drawings using object properties. 7.3 Print AutoCAD drawings to scale using layouts. 7.4 Describe advantages of digital drawing vs. paper-based drawing.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments (4-6)	50%
Attendance	10%
Quizzes (4-6)	40%

Date: September 9, 2021

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

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