

Washtenaw Community College Comprehensive Report

UAT 175 Utilizing Revit® for UA Training (UA 3095)

Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 175

Org Number: 28200

Full Course Title: Utilizing Revit® for UA Training (UA 3095)

Transcript Title: Utilizing Revit UA Train 3095

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Rationale: New United Association Course

Proposed Start Semester: Fall 2020

Course Description: In this course, students will create 2 and 3 dimensional piping models using Autodesk Revit® software. Students will create project plans and develop isometric and elevation drawings, which can be annotated and saved as PDFs. These models can be used for training exercises and lessons in their instructional courses at their local Training Centers. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 1.5

The following Lecture Hour fields are not divisible by 15: Student Min ,Instructor Min

Lecture Hours: Instructor: 22.5 Student: 22.5

The following Lab fields are not divisible by 15: Student Min, Instructor Min

Lab: Instructor: 1.5 Student: 1.5

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 24 Student: 24

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

General Education

Degree Attributes

Below College Level Pre-Reqs

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Create a 3D piping model using software and appropriate commands.

Assessment 1

Assessment Tool: Drawing project

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Instructor Rubric

Standard of success to be used for this assessment: 80% of the students will score 80% or higher

Who will score and analyze the data: U. A. Instructors

2. Create and annotate isometric and elevation drawings.

Assessment 1

Assessment Tool: Drawing project

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Instructor Rubric

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. Instructors

Course Objectives

1. Identify and demonstrate Revit software commands using computer.
2. Create piping diagrams using the Revit modeling software.
3. Compare and contrast the advantages and disadvantages of 2D and 3D imaging.
4. Create isometric and elevation view models from a project plan.
5. Create isometric and elevation view PDFs from a project plan.
6. Develop location dimensions and scale of piping views to 2 dimensional PDF format.
7. Create and place annotations and specifications for piping drawings.

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Reviewer

Action

Date

Faculty Preparer:

Tony Esposito

Faculty Preparer

Apr 01, 2020

Department Chair/Area Director:

<i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Apr 06, 2020</i>
Dean:		
<i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Apr 13, 2020</i>
Curriculum Committee Chair:		
<i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Jun 09, 2020</i>
Assessment Committee Chair:		
<i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Jun 16, 2020</i>
Vice President for Instruction:		
<i>Kimberly Hurns</i>	<i>Approve</i>	<i>Jun 17, 2020</i>