Washtenaw Community College Comprehensive Report

UAT 168 Introduction to REVIT (UA 3025) Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers Department: United Association Department **Discipline:** United Association Training **Course Number:** 168 Org Number: 28200 Full Course Title: Introduction to REVIT (UA 3025) Transcript Title: Introduction to REVIT 3025 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 be introduced to the Autodesk Revit Mechanical, Electrical, Plumbing (MEP) software as a design, collaboration, coordination, communication and fabrication tool for the construction industry. Students will learn how to utilize a 3-D model to coordinate installation drawings and fabrication spool sheets. In addition, students will discuss the advantages of

Course Credit Hours

program participants.

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

implementing Revit software training at the local Training Center. Limited to United Association

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)

<u>College-Level Reading and Writing</u>

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. Use modeling and documentation tools in Revit software.

Assessment 1

Assessment Tool: Demonstration 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: Skills checklist 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. Present the advantages of current Autodesk Revit integral software over standard AutoCAD software.

Assessment 1

Assessment Tool: Presentation 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: Observational checklist 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

3. Present jobsite workflow diagrams that can be obtained from a Revit model along with third-party adaptation software.

Assessment 1

Assessment Tool: Presentation

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: Observational checklist

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. Navigate the Revit workspace utilizing ribbons and tabs.
- 2. Demonstrate the use of the properties panel and the project browser for modeling plumbing and mechanical systems.
- 3. Describe the history and methods of obtaining jobsite mechanical drawings.
- 4. Discuss the advantages of Autodesk Revit and the Building Information Modeling (BIM) process.
- 5. Identify the current technology available with Autodesk Revit software that is not available in the AutoCAD software.
- 6. Discuss the best practices for implementing Autodesk Revit at the student's local Training Center.
- 7. Discuss the Revit model and the jobsite workflow capabilities.
- 8. Discuss and demonstrate available third-party software that can assist with Revit operation.

https://curricunet.com/washtenaw/reports/course_outline_HTML.cfm?courses_id=10901

9. Compare and contrast the costs of Revit software and workflow models as well as its savings and return on investment (ROI).

New Resources for Course

Course Textbooks/Resources

Textbooks Manuals Periodicals Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer:		
Tony Esposito	Faculty Preparer	Jun 02, 2020
Department Chair/Area Director:		
Marilyn Donham	Recommend Approval	Jun 05, 2020
Dean:		
Jimmie Baber	Recommend Approval	Jun 10, 2020
Curriculum Committee Chair:		
Lisa Veasey	Recommend Approval	Oct 16, 2020
Assessment Committee Chair:		
Shawn Deron	Recommend Approval	Oct 20, 2020
Vice President for Instruction:		
Kimberly Hurns	Approve	Oct 22, 2020