

UAT 168: INTRODUCTION TO REVIT® (UA 3025)

Completed Workflow

1. C&A Office (sabird@wccnet.edu; aabooker@wccnet.edu; cacevans@wccnet.edu; kgwu@wccnet.edu; bjlinford@wccnet.edu)
2. Vice President for Instruction (hbhirth@wccnet.edu; brtucker@wccnet.edu)
3. Banner (cacevans@wccnet.edu)

Approval Path

1. 2025-11-05T20:37:00Z
Sera Bird (sabird): Approved for C&A Office
2. 2025-11-10T03:33:49Z
Brandon Tucker (brtucker): Approved for Vice President for Instruction
3. 2025-12-04T08:05:27Z
Approved for Banner

History

1. Dec 4, 2025 by Sera Bird (sabird)

Viewing: UAT 168 : Introduction to Revit® (UA 3025)

Changes proposed by: Sera Bird (sabird)

Effective Term

Winter 2026

Rationale and proposal summary

Update the United Association course to reflect the current technologies and industry standards.

Course Cover

Full Course Title

Introduction to Revit® (UA 3025)

Transcript Title

Intro to Revit® (UA 3025)

Subject Code

UAT - United Association Training

Course Number

168

Department

United Assoc Dept (UAT Only) (UATD)

Banner Division

ATP

Division/College

Adv Tech/Public Serv Careers (AT)

Org Code

28200

Course Description

In this course, students will explore the uses of Autodesk Revit Mechanical, Electrical, Plumbing (MEP) software as a design, collaboration, coordination, communication, and fabrication tool for the construction industry. Students will utilize a 3-D model to coordinate installation drawings and fabricate spool sheets. In addition, students will discuss the advantages of implementing Revit MEP software training at the local Training Center. Limited to United Association program participants.

Has this course been approved for online or online blended?

Yes

Grading method

Standard Letter, Audit

CIP Code

469999 - Construction Trades, Other.

Occupational Indicator

Yes

ACS Code

130

Degree Attributes

BCL - Below College Level Pre-Reqs

Credit hours, contact hours, repeatability**Repeatable for additional credit**

No

Course credits

1.5

Lecture contact hours

22.5

Lab contact hours

1.5

Total Contact Hours

24

Expected Total Contact Hours

24

Prerequisites and prerequisite skill levels**College-Level Math**

No Level Required

College-Level Reading and Writing

College-level Reading and Writing

Approved Level I Prerequisite:

Academic Reading and Writing Levels of 6

Course Assessment Plan**Learning Outcome****Outcome**

Demonstrate basic level skills using modeling and documentation tools in Revit MEP software.

Assessment #1**Assessment Tool**

Outcome-related skills demonstration

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Observational checklist

Who does the scoring?

U.A. instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2

Learning Outcome**Outcome**

Demonstrate Autodesk Revit software used in the Building Information Modeling (BIM) process and identify the advantages and disadvantages of using Revit over standard AutoCAD software.

Assessment #1**Assessment Tool**

Outcome-related skills demonstration

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Observational checklist

Who does the scoring?

U.A. instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2

Learning Outcome**Outcome**

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

Assessment #1

Assessment Tool

Outcome-related worksheet

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Rubric

Who does the scoring?

U.A. instructors

Standard of success

80% of the students will score 80% or higher.

Assessment #2

Course Objectives

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

General Education Area(s)

Area 1: Writing

No

Area 2: 2nd Writing or Communication/Speech

No

Area 3: Mathematics

No

Area 4: Natural Science

No

Area 5: Social and Behavioral Science

No

Area 6: Arts and Humanities

No

MTA General Education

No

Review

Is conditional approval requested?

No

Is this course currently conditionally approved, and you are now submitting it for full approval?

No

Key: 8819

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 implementing Revit software training at the local Training Center. 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. 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.

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