Washtenaw Community College Comprehensive Report

UAT 116 Advanced Revit (UA 3026)
Effective Term: Spring/Summer 2018

Course Cover

Division: Advanced Technologies and Public Service Careers
Department: United Association Department
Discipline: United Association Training
Course Number: 116
Org Number: 28200
Full Course Title: Advanced Revit (UA 3026)
Transcript Title: Advanced Revit (3026)
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: New Course
Change Information:
Rationale: New course
Proposed Start Semester: Spring/Summer 2018
Course Description: In this course, students will utilize the latest Autodesk Revit software and explore the advanced uses of Autodesk Revit MEP as a complete design-to-fabrication VDC/BIM (Virtual Design Construction/Building Information Modeling) tool for the pipe trades. This hands-on course will introduce them to advanced methods of pipe routing. In addition, students will learn how a coordinated model is processed into installation shop drawings, spool maps, and fabrication spool sheets. 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 REVIT design-to-fabrication workflow software and spool drawing.
   Assessment 1
   Assessment Tool: Skills demonstration
   Assessment Date: Spring/Summer 2018
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Skills demonstration checklist
   Standard of success to be used for this assessment: 90% of the students will score 100%
   Who will score and analyze the data: UA training coordinator

2. Create lesson plan to teach REVIT training in their local training center.
   Assessment 1
   Assessment Tool: Teaching demonstration
   Assessment Date: Spring/Summer 2018
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 90% of students will score 100%
   Who will score and analyze the data: UA training coordinator

Course Objectives
1. Build customer schedules to extract data and materials from the model provided.
2. Create custom REVIT families to place in the model.
3. Transform a generic REVIT model into a buildable fabrication level model.
4. Alter visibility and graphics settings to create custom views and sheets.
5. Demonstrate annotation tags to correlate information between the model geometry and schedules.
6. Customize a provided REVIT template to use at students' individual local training centers.
7. Produce custom share parametric relationships in the design model.

New Resources for Course

Course Textbooks/Resources
Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Reviewer	Action	Date
Faculty Preparer:		
Tony Esposito	*Faculty Preparer*	*Nov 16, 2017*
Department Chair/Area Director:		

| *Marilyn Donham* | *Recommend Approval* | *Nov 17, 2017* |

Dean:

| *Brandon Tucker* | *Recommend Approval* | *Dec 27, 2017* |

Curriculum Committee Chair:

| *David Wooten* | *Recommend Approval* | *Apr 16, 2018* |

Assessment Committee Chair:

| *Michelle Garey* | *Recommend Approval* | *Mar 28, 2018* |

Vice President for Instruction:

| *Kimberly Hurns* | *Approve* | *Apr 19, 2018* |