Washtenaw Community College Comprehensive Report

UAT 126 Autodesk Fabrication CADmep (UA 3024)
Effective Term: Spring/Summer 2019

Course Cover
Division: Advanced Technologies and Public Service Careers
Department: United Association Department
Discipline: United Association Training
Course Number: 126
Org Number: 28200
Full Course Title: Autodesk Fabrication CADmep (UA 3024)
Transcript Title: Autodesk Fabricat CADmep 3024
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog
Reason for Submission: New Course
Change Information:
Rationale: New United Association course
Proposed Start Semester: Spring/Summer 2019
Course Description: In this course, students will review functions and features of Autodesk Fabrication CADmep software. Students will study basic 3D models as well as prepare field drawings and procurement documents. Upon completion, students will create documents for prefabrication of piping, custom fabrication using Fabrication CADmep and shop drawings with annotation spool drawings. 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. Identify basic features of Fabrication CADmep software to access piping database content.
   ### Assessment 1
       Assessment Tool: Skills Demonstration
       Assessment Date: Spring/Summer 2019
       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: 80% of the students will score 100%
       Who will score and analyze the data: UA Training Coordinator

2. Create and annotate piping, hangers and equipment using FABmep.
   ### Assessment 1
       Assessment Tool: Skills Demonstration
       Assessment Date: Spring/Summer 2019
       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: 80% of the students will score 100%
       Who will score and analyze the data: UA Training Coordinator

3. Produce bills of materials and prefabrication drawings from FABmep piping models.
   ### Assessment 1
       Assessment Tool: Skills Demonstration
       Assessment Date: Spring/Summer 2019
       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: 80% of the students will score 100%
       Who will score and analyze the data: UA Training Coordinator

Course Objectives
1. Navigate the Fabrication CADmep software.
2. Access the FABmep database by placing piping objects in the CAD space.
3. Edit and create FABmep services including project profiles.
4. Create piping and piping hanger models with FABmep.
5. Use design line in Fabmep.
6. Create and obtain mechanical equipment models using AutoCAD MEP and Revit.
7. Annotate piping models with FABmep.
8. Create piping prefabrication spool drawings with FABmep.
9. Create piping bills of materials with FABmep.
10. Create annotated piping drawings in PDF format with FABmep.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Reviewer	Action	Date
Faculty Preparer:		
Tony Esposito	*Faculty Preparer*	*Dec 18, 2018*
Department Chair/Area Director:		
Marilyn Donham	*Recommend Approval*	*Jan 03, 2019*
Dean:		
Brandon Tucker	*Recommend Approval*	*Jan 16, 2019*
Curriculum Committee Chair:		
Lisa Veasey	*Recommend Approval*	*Mar 19, 2019*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Mar 21, 2019*
Vice President for Instruction:		
Kimberly Hurns	*Approve*	*Mar 25, 2019*