

Washtenaw Community College Comprehensive Report

UAT 230 3D Computer-Aided Drafting (CAD)

Effective Term: Spring/Summer 2016

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 230

Org Number: 28200

Full Course Title: 3D Computer-Aided Drafting (CAD)

Transcript Title: 3D Computer-Aided Drafting

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Course Change

Change Information:

Consultation with all departments affected by this course is required.

Course description

Credit hours

Outcomes/Assessment

Rationale: Change credit hours.

Proposed Start Semester: Winter 2016

Course Description: In this course, students learn methods of teaching 3D Computer-Aided Drafting (CAD). Topics to be covered include the 3D CAD environment; creation of 3D piping, 3D pipefittings and other complex solids; creating surfaces; editing solids; and utilizing AutoCAD and Quickpen Pipe Designer 3D software. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 2

Lecture Hours: Instructor: 30 Student: 30

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

Lab: Instructor: 10 Student: 10

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 40 Student: 40

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. Explain to apprentices and journey-people the central concepts and skills of 3D computer-aided drafting.

Assessment 1

Assessment Tool: Teaching demonstration

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: 75% of all students through random sampling who teach the topic the subsequent year, minimum of 7 students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75 percent of students will score 11 or higher out of 16.

Who will score and analyze the data: UAT faculty

2. Utilize approved industry and UA course/training materials to teach 3D computer-aided drafting.

Assessment 1

Assessment Tool: Teaching demonstration

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

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Standard of success to be used for this assessment: 75 percent of students will score 11 or higher out of 16.

Who will score and analyze the data: UAT faculty

Course Objectives

1. Describe the 3D CAD environment.
2. Identify and explain the basic 3D concepts, working drawings, and 3D objects.
3. Demonstrate how to create surfaces and use solid modeling.
4. Demonstrate appropriate use and knowledge of course materials.

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Reviewer

Faculty Preparer:

Justin Carter

Department Chair/Area Director:

Scott Klapper

Dean:

Brandon Tucker

Action

Faculty Preparer

Recommend Approval

Recommend Approval

Date

Jun 15, 2015

Jun 17, 2015

Jun 18, 2015

Curriculum Committee Chair:

Kelley Gottschang

Recommend Approval

Sep 29, 2015

Assessment Committee Chair:

Michelle Garey

Recommend Approval

Sep 29, 2015

Vice President for Instruction:

Michael Nealon

Approve

Oct 06, 2015