Washtenaw Community College Comprehensive Report

UAT 220 Pipe Trades Applied Mathematics Effective Term: Spring/Summer 2016

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department **Discipline:** United Association Training

Course Number: 220 Ora Number: 28200

Full Course Title: Pipe Trades Applied Mathematics **Transcript Title:** Pipe Trade Applied Mathematics

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

Total Contact Hours
Outcomes/Assessment

Rationale: Change credit hours and contact hours.

Proposed Start Semester: Fall 2009

Course Description: In this course, students learn methods of teaching about pipe trades applied mathematics. Topics to be covered include: teaching styles and methods, creating exam questions and applying mathematics to the plumbing and pipefitting industry. There will be a refresher on some important math functions, such as offsets, metric systems and calculator usage. On the final day of class, students will be required to demonstrate a basic math lesson to the class. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 Student: 15

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

Lab: Instructor: 5 Student: 5 Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 20 Student: 20

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

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Describe the central concepts and skills of pipe trades applied mathematics.

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 pipe trades applied mathematics.

Assessment 1

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Course Objectives

- 1. Identify the six-step method of trade teaching.
- 2. Recognize the features of good lesson plans and elements of effective teaching styles.
- 3. Identify the important features of an exam question.
- 4. Explain how to use a calculator.
- 5. Demonstrate appropriate use and knowledge of course materials.

New Resources for Course

Course Textbooks/Resources

Textbooks Manuals Periodicals Software

Equipment/Facilities

Level I classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer:		
Justin Carter	Faculty Preparer	Jun 15, 2015
Department Chair/Area Director:		
Scott Klapper	Recommend Approval	Jun 17, 2015

Dean:		
Brandon Tucker	Recommend Approval	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