Washtenaw Community College Comprehensive Report

UAT 169A Mobile Technology for the Construction Industry II (UA 3056)
Effective Term: Spring/Summer 2025

Course Cover

College: Advanced Technologies and Public Service Careers
Division: Advanced Technologies and Public Service Careers
Department: United Association Department (UAT Only)
Discipline: United Association Training
Course Number: 169A
Org Number: 28200
Full Course Title: Mobile Technology for the Construction Industry II (UA 3056)
Transcript Title: Mobile Tech Constr II (3056)
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: Spring/Summer 2024
Course Description: In this course, students will be introduced to current software technology, artificial intelligence (AI), and other applications that support construction management processes. Through practice, students will explore how the application of computer tablet technology increases jobsite efficiency. Further, teaching strategies for classroom curriculum will be discussed and students will be required to use the tools identified in the course to generate a new course outline. 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. Demonstrate the application of software to construction management processes.
        Assessment 1
            Assessment Tool: Outcome-related demonstration
            Assessment Date: Spring/Summer 2024
            Assessment Cycle: Every Three Years
            Course section(s)/other population: All
            Number students to be assessed: All
            How the assessment will be scored: 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. Create a course outline using artificial intelligence (AI) technology.
        Assessment 1
            Assessment Tool: Outcome-related demonstration
            Assessment Date: Spring/Summer 2024
            Assessment Cycle: Every Three Years
            Course section(s)/other population: All
            Number students to be assessed: All
            How the assessment will be scored: 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. Demonstrate the use of software tools available on the computer and iPad as applied to the construction industry.
    2. Create virtual construction management plans with current software tools.
    3. Analyze and compare the benefits of virtual construction management plans versus two-dimensional written plans.
    4. Discuss the advantages of Artificial Intelligence (AI) technology.
    5. Download, set up, and launch AI software and populate the prompts associated with the software.
    6. Generate a course outline from AI software.

New Resources for Course

Course Textbooks/Resources
    Textbooks
    Manuals
    Periodicals
    Software

Equipment/Facilities

Reviewer	Action	Date
Faculty Preparer:		

Tony Esposito	*Faculty Preparer*	*May 03, 2024*

Department Chair/Area Director:

Marilyn Donham	*Recommend Approval*	*May 07, 2024*

Dean:

Eva Samulski	*Recommend Approval*	*May 15, 2024*

Curriculum Committee Chair:

Randy Van Wagnen	*Recommend Approval*	*Nov 07, 2024*

Assessment Committee Chair:

Jessica Hale	*Recommend Approval*	*Nov 26, 2024*

Vice President for Instruction:

Brandon Tucker	*Approve*	*Nov 26, 2024*