

# UAT 169: MOBILE TECHNOLOGY FOR THE CONSTRUCTION INDUSTRY (UA 3055)

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## History

1. Dec 4, 2025 by Sera Bird (sabird)

**Viewing:** UAT 169 : Mobile Technology for the Construction Industry (UA 3055)

**Last approved:** 2025-12-04T08:05:37Z

**Last edit:** 2025-12-03T19:37:13Z

**Effective Term**

Winter 2026

## Rationale and proposal summary

Course change to reflect current trends and technology in the industry.

## Course Cover

### Full Course Title

Mobile Technology for the Construction Industry (UA 3055)

### Transcript Title

Mobile Tech Cnstrc Inds UA3055

### Subject Code

UAT - United Association Training

### Course Number

169

### Department

United Assoc Dept (UAT Only) (UATD)

### Banner Division

ATP

### Division/College

Adv Tech/Public Serv Careers (AT)

### Org Code

28200

## Course Description

In this course, students will examine current mobile technologies available and utilized in the construction industry, including Bluebeam Revu and Revizto. Topics will include utilizing 2D apps and software to markup, collaborate, and manage documents on the go. Students will also explore the capabilities of advanced 3D model coordination and collaboration in the field. By the end of this course, students will be equipped with the knowledge and skills to optimize construction workflows, improve project communication, and boost productivity. The title of this course was previously Mobile Technology (UA 3055). Limited to United Association program participants.

## Has this course been approved for online or online blended?

Yes

## Grading method

Standard Letter, Audit

## CIP Code

469999 - Construction Trades, Other.

## Occupational Indicator

Yes

**ACS Code**

130

**Degree Attributes**

BCL - Below College Level Pre-Reqs

**Credit hours, contact hours, repeatability**

**Repeatable for additional credit**

No

**Course credits**

1.5

**Lecture contact hours**

22.5

**Lab contact hours**

1.5

**Total Contact Hours**

24

**Expected Total Contact Hours**

24

**Prerequisites and prerequisite skill levels**

**College-Level Math**

No Level Required

**College-Level Reading and Writing**

College-level Reading and Writing

**Approved Level I Prerequisite:**

Academic Reading and Writing Levels of 6

**Course Assessment Plan**

**Learning Outcome**

**Outcome**

Demonstrate the use of construction software and mobile technologies for project management.

**Assessment #1**

**Assessment Tool**

Outcome-related skills demonstration

**Anticipated Next Assessment Year**

2025

**Anticipated Next Assessment Term**

Summer

**Assessment Cycle**

Every Three Years

**Anticipated assessment population**

All students from all sections

**How the assessment will be scored**

Skills checklist

**Who does the scoring?**

U.A. instructors

**Standard of success**

80% of the students will score 80% or higher.

**Assessment #2**

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**Learning Outcome****Outcome**

Demonstrate enhanced communication, collaboration, and productivity skills using mobile technology.

**Assessment #1****Assessment Tool**

Outcome-related skills demonstration

**Anticipated Next Assessment Year**

2025

**Anticipated Next Assessment Term**

Summer

**Assessment Cycle**

Every Three Years

**Anticipated assessment population**

All students from all sections

**How the assessment will be scored**

Skills checklist

**Who does the scoring?**

U.A. instructors

**Standard of success**

80% of the students will score 80% or higher.

**Assessment #2**

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**Learning Outcome****Outcome**

Demonstrate enhanced project management skills using construction software.

**Assessment #1****Assessment Tool**

Outcome-related presentation

**Anticipated Next Assessment Year**

2025

**Anticipated Next Assessment Term**

Summer

**Assessment Cycle**

Every Three Years

**Anticipated assessment population**

All students from all sections

**How the assessment will be scored**

Observational checklist

**Who does the scoring?**

U.A. instructors

**Standard of success**

80% of the students will score 80% or higher.

**Assessment #2****Course Objectives**

Objective(s)	
1.	Demonstrate the basic functions of an iPad.
2.	Discuss the implementation of technologies into local programs at students' Training Centers.
3.	List functions and limitations of mobile hardware.
4.	Review the Bluebeam Revu Mobile and Revizto User Guides and manufacturer's recommendations.
5.	Demonstrate Bluebeam Revu Mobile software for construction-related tasks, including markup, annotation, document management, and collaboration on mobile devices.
6.	Demonstrate Revizto software for construction project management, including setting up projects, managing 3D models, creating and managing issues, collaborating with team members, and utilizing clash detection tools effectively.
7.	Discuss situational safety, setup, and operation of software, including Bluebeam and Revizto.
8.	Discuss how Bluebeam Revu Mobile enhances productivity and efficiency in construction workflows, including advanced tools for quantity takeoff, document organization, customization, and automation of repetitive tasks.
9.	Discuss Revizto software for construction project management, including setting up projects, managing 3D models, creating and managing issues, and collaborating with team members.
10.	Discuss advanced skills and applications available for Bluebeam Revu and Revizto.
11.	Discuss the benefits and return on investment (ROI) of Bluebeam Revu Mobile to enhance productivity and efficiency in construction workflows, including advanced tools for quantity takeoff, document organization, customization, and automation of repetitive tasks.
12.	Demonstrate integrating Building Information Modeling (BIM) data, conducting clash detection, generating project documentation, collaborating on mobile devices, and implementing efficient project communication practices.

**General Education Area(s)****Area 1: Writing**

No

**Area 2: 2nd Writing or Communication/Speech**

No

**Area 3: Mathematics**

No

**Area 4: Natural Science**

No

**Area 5: Social and Behavioral Science**

No

**Area 6: Arts and Humanities**

No

**MTA General Education**

No

**Review**

**Is conditional approval requested?**

No

**Is this course currently conditionally approved, and you are now submitting it for full approval?**

No

Key: 8820

## Washtenaw Community College Comprehensive Report

### UAT 169 Mobile Technology (UA 3055)

Effective Term: Fall 2020

#### Course Cover

**Division:** Advanced Technologies and Public Service Careers

**Department:** United Association Department

**Discipline:** United Association Training

**Course Number:** 169

**Org Number:** 28200

**Full Course Title:** Mobile Technology (UA 3055)

**Transcript Title:** Mobile Technology (UA 3055)

**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:** Fall 2020

**Course Description:** In this course, students will examine current mobile technologies and applications that are available for use in the construction industry. Students will explore resources as well as develop and utilize a plan to integrate these technologies into apprenticeship programs at their local Training Centers. In addition, students will present a five-minute lesson plan for class discussion and critique. 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 basic functions of the mobile hardware platform.

### **Assessment 1**

Assessment Tool: Skills demonstration

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Skills 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. Identify and demonstrate the use of technologies such as Plangrid, Bluebeam, Procore, Autodesk, and eSub.

### **Assessment 1**

Assessment Tool: Skills demonstration

Assessment Date: Fall 2020

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 80% or higher.

Who will score and analyze the data: U.A. instructors

3. Prepare and present a five-minute lesson plan of a discussed technology.

### **Assessment 1**

Assessment Tool: Presentation

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observational 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. Discuss and navigate the provided mobile hardware.
2. Demonstrate the basic functions of an iPad.
3. Discuss the implementation of technologies into local programs at students' Training Centers.
4. List functions and limitations of mobile hardware.
5. Navigate the hardware management software and their capabilities.
6. Discuss the operation of Plangrid, Bluebeam, Procore, Autodesk, and eSub.
7. Navigate resources for emerging technologies being developed for future use.
8. Review construction project processes, and identify areas that can benefit from technology.
9. Discuss the benefits, labor savings, and Return on Investment (ROI) of purchasing and utilizing technologies for a construction project.
10. Prepare and present a lesson plan to be used at the student's local Training Center.

## **New Resources for Course**

### **Course Textbooks/Resources**

Textbooks  
Manuals  
Periodicals  
Software

### **Equipment/Facilities**

<b><u>Reviewer</u></b>	<b><u>Action</u></b>	<b><u>Date</u></b>
<b>Faculty Preparer:</b> <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Jul 14, 2020</i>
<b>Department Chair/Area Director:</b> <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jul 14, 2020</i>
<b>Dean:</b> <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Jul 14, 2020</i>
<b>Curriculum Committee Chair:</b> <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Jul 15, 2020</i>
<b>Assessment Committee Chair:</b> <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Jul 21, 2020</i>
<b>Vice President for Instruction:</b> <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Jul 28, 2020</i>