

UAT 306: ROBOTIC TOTAL STATION CERTIFICATION (UA 3047)

Completed Workflow

1. UATD Chair (mdonham@wccnet.edu)
2. AT Dean (krue@wccnet.edu,esamulski@wccnet.edu)
3. C&A Assistant (aabooker@wccnet.edu)
4. Curricular Systems Coordinator (cacevans@wccnet.edu)
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10. Curriculum Committee Chair (rvanwagnen@wccnet.edu)
11. Assessment Committee Chair (jhale15@wccnet.edu)
12. Before VPI (sabird@wccnet.edu)
13. Vice President for Instruction (eloubert@wccnet.edu; brtucker@wccnet.edu)
14. Banner (cacevans@wccnet.edu)

Approval Path

1. 2026-03-17T18:46:06Z
Marilyn Donham (mdonham): Approved for UATD Chair
2. 2026-03-17T19:10:57Z
Eva Samulski (esamulski): Approved for AT Dean
3. 2026-05-05T14:22:06Z
Sera Bird (sabird): Approved for C&A Assistant
4. 2026-05-05T16:16:06Z
Carol Evans (cacevans): Approved for Curricular Systems Coordinator
5. 2026-05-22T16:42:42Z
Sera Bird (sabird): Approved for C&A Coordinator
6. 2026-05-29T20:05:08Z
Ben Linford (bjlinford): Approved for C&A Director
7. 2026-05-29T20:38:09Z
Amber Booker (aabooker): Approved for Before Comm review
8. 2026-06-04T21:37:25Z
Amber Booker (aabooker): Approved for Comm Review step
9. 2026-09-04T13:49:35Z
Sera Bird (sabird): Approved for After Comm review
10. 2026-09-21T20:10:01Z
Sera Bird (sabird): Approved for Curriculum Committee Chair
11. 2026-09-21T20:10:38Z
Sera Bird (sabird): Approved for Assessment Committee Chair
12. 2026-09-21T20:10:54Z
Sera Bird (sabird): Approved for Before VPI
13. 2026-09-21T20:24:42Z
Brandon Tucker (brtucker): Approved for Vice President for Instruction
14. 2026-09-22T13:21:32Z
Carol Evans (cacevans): Approved for Banner

History

1. Sep 22, 2026 by Anthony Esposito (tonyesposito)

New Course Proposal

Viewing: UAT 306 : Robotic Total Station Certification (UA 3047)

Changes proposed by: Anthony Esposito (tonyesposito)

Effective Term

Winter 2027

Rationale and proposal summary

New United Association course for Instructor Training Program.

Course Cover

Full Course Title

Robotic Total Station Certification (UA 3047)

Transcript Title

Robot Total Station Cert 3047

Subject Code

UAT - United Association Training

Course Number

306

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 prepare for United Association (UA) Certification in Robotic Total Station (RTS) layout using equipment from multiple manufacturers. Students will set up and operate RTS equipment, create project files, demonstrate problem-solving and troubleshooting techniques as well as explore best practices in Quality Assurance and Quality Control (QAQC). Students will be prepared to take the UA RTS Certification written and practical exam. Limited to United Association Instructor Training Program graduates.

Planned Delivery Format

Face to Face

Has this course been approved for virtual or blended virtual?

No

Has this course been approved for online or online blended?

No

Grading method

Standard Letter, Audit, Academic Forgiveness

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; UAT 193A

Is concurrent enrollment an option for this prerequisite?

No

Course Assessment Plan

Learning Outcome

Outcome

Demonstrate the setup and use of various vendor RTS systems, including Trimble, Topcon, and Leica.

Assessment #1

Assessment Tool

Outcome-related demonstration

Anticipated Next Assessment Year

2029

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Checklist

Who does the scoring?

U.A. Instructors

Standard of success

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

Assessment #2

Learning Outcome

Outcome

Perform problem-solving and troubleshooting techniques for RTS systems.

Assessment #1**Assessment Tool**

Outcome-related demonstration

Anticipated Next Assessment Year

2029

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

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.	Create a new job/project and import files.
2.	Set up and level RTS using the tripod as an "Anywhere Setup" and a "Known Setup" location.
3.	Assemble the layout pole with tablet and connect the device.
4.	Layout, collect, and store prism points and laser points.
5.	Discuss when and how often the RTS should be sent in for calibration, both before and during projects.
6.	Explain why it is necessary to let the RTS acclimate to the ambient temperature and weather conditions on the jobsite.
7.	Discuss the causes of an RTS vibrating or beeping.
8.	Discuss common troubleshooting issues, including causes and remedies.

Resources**Will there be an additional fee on this course?**

No

Are you planning to use First-Day resources?

No

Will this course always be OER/No Cost Resources?

Yes

Describe any resource needs

n/a

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

Reviewer Comments

Sera Bird (sabird) (2026-05-05T14:22:03Z): Pulling forward to CSC queue.

Sera Bird (sabird) (2026-05-19T18:17:39Z): Sent suggestions to preparer 5/19/26

Sera Bird (sabird) (2026-05-22T16:42:38Z): Preparer agreed to updates to description, boilerplate suggestions for tools, Outcome #2 verb via email 5/21/26.

Sera Bird (sabird) (2026-06-10T18:24:35Z): Emailed feedback 6/9/26.

Sera Bird (sabird) (2026-09-04T13:49:31Z): Minor wording changes applied based on C&A Committee feedback.

Sera Bird (sabird) (2026-09-21T20:10:35Z): Approved by C&A Committee Chairs via internal tracking system 9/17/26.

Key: 9317