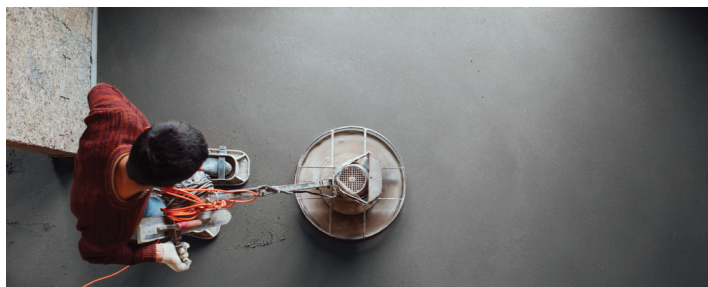


APPLIED INDUSTRIAL TECHNOLOGY (CEMENT MASONRY), ASSOCIATE OF APPLIED SCIENCE



Students must be currently working in a registered apprenticeship program in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship and Training. The apprenticeship program prepares the student to earn a journey-level status in Cement Masonry, as well as earn an Associate of Applied Science degree in Applied Industrial Technology. A five-year apprenticeship emphasizes the skill set required to be a highly skilled craftsman. An apprentice learns to install, repair, maintain and service finished surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids, monitor concrete curing, and use saws to cut expansion joints.

Program contact: Learn more

This degree program contains one or more embedded certificates which will be automatically awarded when the certificate requirements are completed. If you do not want to receive the embedded certificate(s), please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more about how certificate credits apply to the related degree.

Program Admission Requirements

- High School Diploma/GED

Other Information

- Participants must be currently working in a registered apprenticeship program in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship & Training.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

- Listen, communicate and work with co-workers, supervisor, suppliers and other trades in order to efficiently and timely perform tasks at hand in a team environment according to the Cement Mason Code of Conduct.
- Demonstrate pride of craftsmanship.
- Recognize and comply with OSHA safety standards and contractor's policies and procedures.

- Read job specifications and blueprints to calculate quantity needs and quantity of various types of materials to ensure materials meet job requirements.
- Identify and properly use the appropriate tools to set up, place and finish materials in a safe and efficient manner.
- Use appropriate construction equipment and tools to move, place and finish materials in a safe and efficient manner.
- Commit to and understand the nature of working in the construction trade, especially planning for seasonal work.
- Maintain a fitness level to be able to meet the physical demands of the job.
- Be certified in OSHA 16.

Suggested Semester Sequence

First Semester		Credit Hours
ATCM-1300	Fundamentals of Concrete Construction	2
ATCM-1401	Concrete Forming and Finishing Basic	2
ATCM-1321	Introduction to Plan Reading	1
ATCM-1341	OSHA Standards for Construction	2
Any Approved Ohio Transfer 36 Mathematics course ¹		3
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
Select one of the following:		3
CNST-xxxx	CNST Elective	
BADM-xxxx	Business Elective	
Credit Hours		16
Second Semester		Credit Hours
ATCM-1330	Concrete Construction Equipment	2
ATCM-1411	Commercial and Residential Form and Finish	2
ATCM-XXXX	Elective	2
ATCM-XXXX	Elective	2
Select one of the following:		2-3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
FIN-1061	Personal Finance	
Select one of the following:		3
IT-1090	Computer Applications	
IT-109H	Honors Computer Applications	
Credit Hours		13-14
Third Semester		Credit Hours
ATCM-2320	Blueprint Fundamentals - Construction	2
ATCM-2521	Basic Cement Patching	1
ATCM-2701	Advanced Concrete Finishing	2
ATCM-2710	Concrete Specialty Products	1
ATCM-XXXX	Elective	2
ATCM-XXXX	Elective	1
Arts & Humanities requirement		3
Select one of the following:		3
BADM-xxxx	Business Elective	

CNST-xxxx	CNST Elective	
Credit Hours		15
Fourth Semester		
ATCM-2500	Fundamentals of Concrete Curing	1
ATCM-2531	Concrete Restoration	1
ATCM-XXXX	Elective	2
AIT-2990	Contracting in a Diverse World	3
Communication requirement		3
Social & Behavioral Sciences/Natural and Physical Sciences requirement		3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-xxxx	CNST Elective	
Credit Hours		16
Total Credit Hours		60-61

¹ MATH-1100 Mathematical Explorations or MATH-1240 Contemporary Mathematics taken prior to Fall 2024 will be accepted to meet Mathematics requirement.

Recommended Business Electives

Code	Title	Credit Hours
BADM-1020	Introduction to Business	3
BADM-1210	Labor-Management Relations	3
BADM-1301	Small Business Management (Small Business Management)	3
BADM-2450	New Business Development	5
BADM-1122	Principles of Management and Organizational Behavior	3
BADM-2151	Business Law	3

Recommended Construction Management Electives

Code	Title	Credit Hours
CNST-1281	Construction Engineering Orientation	3
CNST-1290	Construction Print Reading	2
CNST-1510	Green Building & Sustainability I	3
CNST-2131	Construction Methods and Materials	3

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.