

# IRONWORKING TECHNOLOGY, APPRENTICESHIP PROGRAM

No new students will be accepted in the program after Aug. 22, 2025, for Academic Year 2025-2026. Current students should reach out to an academic counselor to create an academic plan to complete their remaining Ironworking Technology courses. Students will have until Fall 2028 to complete this degree program.

Students interested in the Ironworking apprenticeship, please see the Certificate of Proficiency in Ironworking.

Certificate(s) may have additional courses that do not overlap with the degree. Please see Certificate program page for complete listing of required courses.

Code	Title	Credit Hours
ATIW-1300	Structural Steel Concepts	2
ATIW-1310	Safety for Ironworkers	1
ATIW-1320	Steel Construction Procedures	1
ATIW-1330	Erection Concepts & Practices	3
ATIW-1410	Practical Applications of Reinforcing Steel	1
Any Approved Ohio Transfer 36 Mathematics course		3
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
ATIW-1600	Welding Fundamentals for Ironworkers	3
ATIW-2300	Shielded Metal Arc Welding	3
ATIW-2310	Welding Specialties	3
ATIW-2320	Welding Blueprints and Design	3
Communication requirement <sup>1</sup>		3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
ATIW-2330	Pre-Construction Planning of Specialty Applications	2
ATIW-2340	Specialty Installation Equipment	2
ATIW-2350	Ornamental Systems & Railings	2
ATIW-2360	Ornamental Applications	2
Arts and Humanities requirement		3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
Select one of the following:		3
IT-1090	Computer Applications	
IT-109H	Honors Computer Applications	
AIT-2990	Contracting in a Diverse World	3
ATIW-2500	Rigging and Hoisting	3
Social & Behavioral Science requirement		3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-xxxx	CNST Elective	
Select one of the following:		3

BADM-xxxx	Business Elective
CNST-xxxx	CNST Elective

<sup>1</sup> ENG-2151 Technical Writing highly recommended.

## Recommended Business Electives

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

## Recommended Construction Management Electives

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

## Related Degrees and Certificates

- Ironworking, Certificate of Proficiency
- Associate of Applied Science in Ironworking Technology (Apprenticeship)