

# Industrial Maintenance Millwright, Associate in Applied Science 2025-2026

Placement in English and/or Mathematics must first be determined by official transcripts and/or placement testing. Developmental education courses are only taken if needed based on a student's placement; these courses would be in addition to the courses outlined below. Developmental education courses may extend the timeline to degree completion. Transferring credits into NCC: Official transcripts are required; awarded credit will appear in Workday's Academic Progress.

## Developmental Education Courses (if required)

<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy
<input type="checkbox"/>	ENGL027	Writing Skills Workshop
<input type="checkbox"/>	MATH020	Pre-Algebra

complete	Course #	Course Title	Credits	Prerequisites / Corequisites
<input type="checkbox"/>	COLS101	College Success	1	Exempt: COLS150 or 12+ transfer credits & 2.0 GPA
<input type="checkbox"/>	MATH103	Technical Mathematics	3	PRE: MATH020 w/C or MATH placement
<input type="checkbox"/>	ELTC101	Electrical Fundamentals	3	
<input type="checkbox"/>	EMEC114	Mechanical Skills for the Trades	2	
<input type="checkbox"/>	EMEC130	Introduction to Process Control	3	
<input type="checkbox"/>	WELD105	Introduction to Welding Processes	5	
		Total Semester Credits:	17	
<input type="checkbox"/>	ELTC107	Electrical Wiring I	3	PRE: ELTC101
<input type="checkbox"/>	EMEC105	Introduction to Fluid Power	3	
<input type="checkbox"/>	EMEC140	Sensors, Wiring and Troubleshooting	1	PRE: ELTC101
<input type="checkbox"/>	ENGL101	English I	3	PRE: ENGL placement policy
<input type="checkbox"/>	EMEC110	Mechanical Components	3	
<input type="checkbox"/>	OSAH102	General Industry Outreach Safety Education	1	
<input type="checkbox"/>		AH, SIT, SSHB General Education Elective	3	
		Total Semester Credits:	17	
<input type="checkbox"/>	ELTC109	Electrical Wiring II	3	PRE: ELTC107
<input type="checkbox"/>	ELTC135	Electrical Motors and Controls	4	PRE: ELTC101
<input type="checkbox"/>	EMEC205	Electrical Controls of Fluid Power	3	PRE: ELTC101 & EMEC105
<input type="checkbox"/>	EMEC240	Industrial Control Systems I	4	PRE: ELTC101; PRE/CO: EMEC140
<input type="checkbox"/>		AH, SIT, SSHB General Education Elective	3	
		Total Semester Credits:	17	
<input type="checkbox"/>	COMM101	Introduction to Communication	3	
<input type="checkbox"/>	EMEC251	Mechanical Systems	3	PRE/CO: EMEC105, EMEC110, and ELTC135
<input type="checkbox"/>	ENGL151T	English II (Technical Writing)	3	PRE: ENGL101
<input type="checkbox"/>	PHYS152	Physical Science II	3	
<input type="checkbox"/>		Elective+	3-5	
		Total Semester Credits:	15-17	
Total Degree Credits			66-68	

## Program Notes:

**+Suggested Electives: CADM117, WELD125, HVAC101**  
consult with Advisor

Students must take two General Education Electives (SIT, SSHB or AH); one must be in a Writing Intensive (WI) sections.

Writing Intensive course codes end in G. Examples: PSYC103G (PSYC103 is not writing intensive). Please pay attention to the option you select. For example, if you are looking for an SSHB writing intensive course, look for one that ends in G via the SSHB course tag.

## How to search for general education electives:

In Workday, use the corresponding **Elective Groups** filter to see the available options.

Arts and Humanities = AH  
Scientific Study of Human Behavior = SSHB  
Societies and Institutions Over Time = SIT

Computer competencies are included in various courses in this program (EMEC 130, EME C240). Thus, completing the program automatically satisfies the computing requirement for this program.

## General Education Requirements

<input type="checkbox"/>		Diversity
<input type="checkbox"/>		Writing Intensive

**\*It is the student's responsibility to be knowledgeable of NCC graduation requirements and, if applicable, to verify transfer requirements with the 4-year institution. Courses listed on the program map are based upon the assumption that prerequisites and courses taken in previous semesters will be successfully completed.**