Industrial Maintenance Millwright, Associate in Applied Science 2025-2026

Developmental Education Courses *(if required)*

	Course #	Course Title
☐	ACLS050	Introduction to Academic Literacy
☐	ENGL027	Writing Skills Workshop
☐	MATH020	Pre-Algebra

Placement in English and/or Mathematics must first be determined by <u>official</u> 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.

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

Program Notes:

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

General Education Electives: students must select one course from the list of approved courses in two of the following categories: Arts & Humanities (AH); Social Science: Societies and Institutions over Time (SIT); Social Science: Scientific Study of Human Behavior (SSHB). One elective must be designated as Diversity and Global Awareness (D).

One course 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		
☐		Diversity (AH, SIT or SSHB)
☐		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.