



Welding Fundamentals-Specialized Diploma (2020-21 Catalog)

SEMESTER-BY-SEMESTER PROGRAM MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion

Plans can be modified to fit student needs by adding more semesters

Choose your courses with your Advisor.

Location: B= BETH, M= MROE, S=SBTH, E= ESTN, D= DIST *subject to change										
complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites	
Semester 1	<input type="checkbox"/>	COLS101	College Success	1		B, M, D	----	B, M, D	D	
	<input type="checkbox"/>	EMEC114	Mechanical Skills for the Trades	2		B	---	B	B	
	<input type="checkbox"/>	ENGG117	Technical Drawings & Specifications	3		B	---	B	---	
	<input type="checkbox"/>	WELD105	Introduction to Welding Processes	5		B	---	B	B	
	<input type="checkbox"/>	WELD135	Welding Fabrication and Symbols	2		B	---	B	---	PRE or CO: WELD105
		Total Semester Credits:	13							
Semester 2	<input type="checkbox"/>	OSAH101 or OSAH102*	General Industry Outreach Safety Education or Construction Industry Outreach Safety Education	1		B	----	B	----	
	<input type="checkbox"/>	WELD110	Introduction to Pipe Welding Processes	3		B	---	B	---	PRE or CO: WELD123
	<input type="checkbox"/>	WELD123	Advanced Plate Welding Processes	5		B	---	B	---	PRE: WELD105
	<input type="checkbox"/>	WELD125	GTAW and Semiautomatic Welding Processes	5		B	---	B	---	PRE: WELD105
		Total Semester Credits:	14							
		Total Degree Credits	27							

Program Narrative:

Northampton's Welding programs are designed to prepare you to enter a welding profession. The Welding Fundamentals specialized diploma is designed to prepare you to enter a welding setting in a short time frame or advance your current welding skills to the next level. The program offers career-specific coursework for a student wishing to complete their studies within two semesters.

Your studies will include state-of-the-art welding equipment and principles from the American Welding Society. You will learn the marketable skills required to work effectively within a welding environment. Strong emphasis on the development of professional attitudes, values, and ethics. As you progress through the program, you'll gain critical thinking, priority setting, and decision-making skills needed in today's quality-oriented business environment.

Graduates of this specialized diploma program can gain employment and then pursue NCC's Welding & Fabrication certificate or Welding Technology associate degree programs. This program will be of benefit to those who are seeking an entry level position in welding or those who are seeking to change careers. It is also useful for welders in need of updated skills and certification.

Program Learning Outcomes:

- Demonstrate an ability to work independently and collaboratively.
- Analyze and present data in an acceptable and standardized manner.
- Solve weldability problems.
- Demonstrate a basic framework of technical vocabulary and graphics interpretation.
- Demonstrate observational, integrative, and synthetic skills.
- Demonstrate the proper use and care of common welding equipment.
- Apply basic defect prevention philosophy and techniques to achieving weld integrity.
- Describe the key process elements and technology commonly found in industrial welding and cutting processes.

*OSAH 102 is the recommended course

***It is the student's responsibility to be knowledgeable of NCC graduation requirements and 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**