



Industrial Manufacturing (617)

Associate of Applied Science

ABOUT OUR PROGRAM

Industrial Manufacturing graduates will enter industry with the wide range of skills that local and regional employers are seeking.

In addition to experience with CNC machining and CAD, they will be versed in welding and other manufacturing processes.

The degree includes health and safety instruction and an internship where students develop skills while applying the knowledge gained while earning their degree.

NATURE OF WORK AND EMPLOYMENT

Completers of this program will be fluent in CNC machine setup and processes. These skills in combination with entry-level knowledge of welding, electronics, and automation will prepare graduates for employment in manufacturing facilities utilizing CNC machining or CAD-related work.

PROGRAM CONTACTS

Call Highland at 815-235-6121 for the following program contacts:

- Scott Anderson, Dean of Business & Technology
- Aaron Sargent, Industrial Technology Faculty
- Thedford Jackson, Transfer Coordinator/Student Advisor

First Semester **14 Sem. Hours**

DRAF	105	Computer Aided Drafting	3
DRAF	110	Print Reading and Inspection	2
* ELET	179	Electronic Principles	3
* MATH	111	Technical Math (or higher level)	3
* MTEC	151	Machine Processes	3

Second Semester **15 Sem. Hours**

* DRAF	260	CAD-3D Solid Modeling	4
ELET	293	Intro to Programmable Logic Controllers	3
MTEC	164	Manufacturing Processes	3
* MTEC	280	CNC Lathe	3
OCED	117	Occupational Safety	1
OCED	118	Health and Safety Topics	1

Summer **4 Sem. Hours**

* OCED	290	Workplace Experience	4
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Third Semester **14 Sem. Hours**

* MTEC	165	3D Printing	2
* MTEC	270	CNC Mill	3
* ELET	291	Introduction to Automation	3
SPCH	191	Fundamentals of Speech Communications	3
WELD	130	Introduction to Welding (or WELD 135)	3

Fourth Semester **13 Sem. Hours**

* BUSN	141	Business Communications (or ENGL 121 or COMM 101)	3
* INFT	180	Introduction to Information Systems	3
* MTEC	170	Introduction to Lean Manufacturing	2
* MTEC	285	Advanced CNC Machining	3
* OCED	290	Workplace Experience	2

Total Hours = 60

* Course has a prerequisite. See course descriptions.