

Career Pathways:

- Diversified Manufacturing Technology Certificate
- Advanced Manufacturing Design Technology (AMDT) Diploma
- Advanced Manufacturing Design Technology (AMDT) AAS Degree
- Manufacturing Drafting & Design Specialization (DSGN) AAS Degree
- Welding Technology (WELD) AAS Degree

http://catalog.cccneb.edu/preview_program.php?catoid=29&poid=8623&returnto=2430

<u>Diversified Manufacturing Technology - Certificate</u>

AMDT 1100	Introduction to Industrial Safety
AMDT 1110	Introduction to Quality & Continuous Improvement
AMDT 1120	Introduction to Manufacturing Technology
AMDT 1130	Introduction to Maintenance Technology



Advanced Manufacturing Design Technology (AMDT) - Diploma

SEMESTER 1

AMDT 1100	Introduction to Industrial Safety
AMDT 1110	Introduction to Quality & Continuous Improvement
AMDT 1120	Introduction to Manufacturing Technology
AMDT 1130	Introduction to Maintenance Technology
MATH 1080	Technical Math (or Greater)

SEMESTER 2

AMDT 1010	Safety & Machine Tool Fundamentals
DSGN 1050	Blueprint Reading for Industry
INDT 1180	Fundamentals of Mechanical Systems
QUCT 1710	Tools & Gauging
GEN ED	Elective from Group C, D or E
ENGL 1000	Applied Writing



Advanced Manufacturing Design Technology (AMDT) - AAS Degree

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ANDT 4400	SEMESTER 1		
AMDT 1100	Introduction to Industrial Safety		
AMDT 1110	Introduction to Quality & Continuous Improvement		
AMDT 1120	Introduction to Manufacturing Technology		
AMDT 1130	Introduction to Maintenance Technology		
MATH 1080	Technical Math (or Greater)		
SEMESTER 2			
AMDT 1010	Safety & Machine Tool Fundamentals		
AMDT 1020	Manual Lathe		
AMDT 1040	Manual Mill		
DSGN 1050	Blueprint Reading for Industry		
GEN ED	Elective from Group C, D or E		
ENGL 1000	Applied Writing		
SEMESTER 3			
AMDT 1060	Heat Treating & Metallurgy/Grinding		
AMDT 1200	CNC Lathe Operations		
AMDT 1200	CNC Mill Operations		
AMDT 1240	CAD/CAM Operations		
GEN ED	•		
GENED	Elective from Group A, B, C, D or E		
	<u>SEMESTER 4</u>		
GEN ED	Elective from Group A, B, C, D or E		
	#1 - Choose a Certificate from the list below & cor	nplete the required courses	
		Credits Req'd/Cert.	
	Production Welding Certificate (WELD)	12	
	Quality Inspection Certificate (QUCT)	12	
	Fluid Power Certificate (INDT)	14	
	Industrial Technology (INDT)	14	

Drafting & Design Technology Certificate (DSGN)

12



Manufacturing Drafting & Design Specialization (DSGN) - AAS Degree

SEMESTER 1 AMDT 1100 Introduction to Industrial Safety Introduction to Quality & Continuous Improvement AMDT 1110 **AMDT 1120** Introduction to Manufacturing Technology Introduction to Maintenance Technology **AMDT 1130** MATH 1080 Technical Math (or Greater) **SEMESTER 2 DSGN 1010** Fundamentals of Design **DSGN 1020 CAD** Fundamentals **DSGN 1030** Manufacturing Processes & Safety **DSGN 1050** Blueprint Reading for Industry (or Welding) **GEN ED** Elective from Group C, D or E **ENGL 1000 Applied Writing** SEMESTER 3 **DSGN 1400** Manufacturing Design Documentation Parametric Design: SolidWorks **DSGN 1430 DSGN 1450** Parametric Design: Inventor **DSGN 2460** Gears and Fasteners **GEN ED** Elective from Group A, B, C, D or E **SEMESTER 4** Geometric Dimensioning & Tolerancing **DSGN 2480 DSGN 2500** Production Drawings I **DSGN 2520 Production Drawings II DSGN ELEC Drafting Elective**

Elective from Group A, B, C, D or E

GEN ED



Welding Technology (WELD) - AAS Degree

AMDT 1100 AMDT 1110 AMDT 1120 AMDT 1130 MATH 1080	SEMESTER 1 Introduction to Industrial Safety Introduction to Quality & Continuous Improvement Introduction to Manufacturing Technology Introduction to Maintenance Technology Technical Math (or Greater)
WELD 1250 WELD 1300 WELD 1320 WELD 1340 WELD 1470 GEN ED ENGL 1000	SEMESTER 2 Blueprint Reading Oxyacetylene Welding Cutting Brazing & Braze Welding Shield Arc Welding I Elective from Group C, D or E Applied Writing
WELD 1360 WELD 1450 WELD 1460 WELD 1480 WELD 1500 WELD 1510 GEN ED	SEMESTER 3 Welding Repair & Troubleshooting Gas Metal Arc Welding I Gas Metal Arc Welding II Shield Metal Arc Welding II Gas Tungsten Arc Welding I Gas Tungsten Arc Welding II Elective from Group A, B, C, D or E
WELD 1490 WELD 2480 WELD 2610 WELD 2620 WELD 2640 WELD 2700 GEN ED	SEMESTER 4 Shield Metal Arc Welding III Flux-Cored & Submerged Arc Welding Metals Layout & Assembly Miscellaneous Welding Processes Welding Codes & Standards Elective from Group A, B, C, D or E





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