

Accounting Technology**AOT Degree**

Available: Shoals Campus

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Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORI 101. Transfer students are exempt from this requirement.

Semester Hours

Area I:	Written Composition	6
	ENG 101 English Composition I	3
	ENG 130 Technical Report Writing or ENG 102 English Composition II	3
Area II:	Humanities and Fine Arts	3
Area III:	Natural Science and Mathematics	9
	MTH 100 Intermediate College Algebra or MTH 246 Mathematics of Finance	3
	CIS 146 Microcomputer Applications	3
	Math or Science Electives	3
Area IV:	History, Social and Behavioral Sciences	3
	ECO 231 Principles of Macroeconomics (preferred)	

Minimum General Requirements 21

Major Requirements	Semester Hours
ACT 104 Introduction to Business	3
ACT 114 Introduction to Accounting Database Resources ...	3
ACT 115 Introduction to Accounting Computer Resources ..	3
ACT 141 Basic Accounting Principles	3
ACT 142 Advanced Accounting Principles	3
ACT 246 Microcomputer Accounting	3
ACT 247 Advanced Accounting Applications on the Microcomputer	3
ACT 249 Payroll Accounting	3
ACT 253 Income Tax	3
ACT 256 Cost Accounting	3
ACT 262 Directed Studies	3
Total Major Requirements	33

Minor Requirements

<i>Business Management and Supervision</i>	309999	ACB
BUS 248 Managerial Accounting	3	
BUS 275 Principles of Management	3	
BUS 285 Principles of Marketing	3	
BUS 279 Small Business Management	3	
Total Minor Requirements	12	

Minor Requirements

<i>Office Administration</i>	309999	AOD
OAD 101 Keyboarding	3	
OAD 125 Word Processing	3	
OAD 130 Electronic Calculations	3	
OAD 138 Records/Information Management	3	
Total Minor Requirements	12	

General Requirements 21
Total Requirements for AOT Degree 66

Accounting Technology:
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Air Conditioning/Refrigeration Technology AOT Degree

Available: Shoals Campus

Advisors: J. Hackworth (5335) joehackworth@nwsc.edu

Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	3
English Composition I and/or Technical Writing	
Area II: Humanities and Fine Arts	3
Area III: Natural Science and Mathematics	9
A minimum of 3 hours in degree creditable mathematics is required. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.	
Area IV: History, Social and Behavioral Sciences	3
Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.	

Minimum General Requirements 18

Major Requirements	Semester Hours
ACR 111 Refrigeration Principles	3
ACR 112 HVACR Service Procedures	3
ACR 113 Refrigeration Piping Practices	3
ACR 119 Fundamentals of Gas Heating Systems	3
ACR 123 HVACR Electrical Components	3
ACR 126 Commercial Heating Systems	3
ACR 132 Residential Air Conditioning	3
ACR 135 Mechanical/Gas/Safety Codes	3
ACR 148 Heat Pump Systems I	3
ACR 181 Parallel Refrigeration	3
ACR 203 Commercial Refrigeration	3
ACR 205 System Sizing and Air Distribution	3
ACR 209 Commercial Air Conditioning Systems	3
ACR Elective	6
Total Major Requirements	45

Minor Requirements

<i>Electrical Technology</i>	309999 AET
ELT 111 Concepts of Direct Current	5
ELT 112 Concepts of Alternating Current	5
ELT Elective	2
Total Minor Requirements	12

Minor Requirements

<i>Welding</i>	309999 AWT
WDT 111 Cutting Processes Theory	2
WDT 151 Cutting Processes Lab	2
WDT 112 Shielded Metal Arc Fillet Theory	2
WDT 152 Shielded Metal Arc Fillet Welding	3
WDT Elective	3
Total Minor Requirements	12

General Requirements 18
Total Requirements for AOT Degree 75

*Computer competency skills are embedded within one or more courses required in this curriculum.

**Air Conditioning/Refrigeration Technology:
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Automotive Collision Repair**AOT Degree**

Available: Shoals Campus

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Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	3
English Composition I and/or Technical Writing	
Area II: Humanities and Fine Arts	3
Area III: Natural Science and Mathematics	9
A minimum of 3 hours in degree creditable mathematics is required. Math must be 100 or higher. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.	
Area IV: History, Social and Behavioral Sciences	3
Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.	

Minimum General Requirements 18**Major Requirements Semester Hours**

ABR 111 Non-Structural Repair	3
ABR 114 Non-Structural Panel Replacement	3
ABR 122 Surface Preparation	3
ABR 123 Paint Application & Equipment	3
ABR 151 Safety & Environmental Practices	3
ABR 154 Auto Glass and Trim	3
ABR 156 Auto Cutting and Welding	3
ABR 157 Plastic Repairs	3
ABR 213 Automotive Structural Analysis	3
ABR 214 Automotive Structural Repair	3
ABR 223 Automotive Mechanical Components	3
ABR 224 Automotive Electrical Components	3
ABR Electives	6
Total Major Requirements	42

Minor Requirements

<i>Business Management and Supervision</i>	309999 ABB
BUS 241 Principles of Accounting I or	
ACT 141 Basic Accounting Principles	3
BUS 275 Principles of Management	3
BUS 285 Principles of Marketing	3
BUS 279 Small Business Management	3
Total Minor Requirements	12

Minor Requirements

<i>Welding</i>	309999 ABW
WDT 111 Cutting Processes Theory	2
WDT 151 Cutting Processes Lab	2
WDT 112 Shielded Metal Arc Fillet Theory	2
WDT 152 Shielded Metal Arc Fillet Welding	3
WDT Elective	3
Total Minor Requirements	12

Minor Requirements

<i>Auto Mechanics</i>	309999 ABA
AUM 101 Fundamentals of Automotive Technology	3
AUM 110 Electrical and Electronic Systems I	3
AUM 121 Braking Systems	3
AUM Elective	3
Total Minor Requirements	12

General Requirements 18**Total Requirements for AOT Degree 75**

*Computer competency skills are embedded within one or more courses required in this curriculum.

Automotive Collision Repair:**Career Certificate - page 91****Short-Term Certificate - page 98**

Carpentry/Cabinetmaking**AOT Degree**

Available: Shoals Campus

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Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	3
English Composition I and/or Technical Writing	
Area II: Humanities and Fine Arts	3
Area III: Natural Science and Mathematics	9
A minimum of 3 hours in degree creditable mathematics is required. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.	
Area IV: History, Social and Behavioral Sciences	3
Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.	

Minimum General Requirements 18

Major Requirements Semester Hours

CAB 101 Introduction to Cabinetmaking	3
CAB 104 Cabinet Shop Operation	3
CAB 142 Wood Finishing and Spraying	5
CAB 204 Cabinetmaking/Millwork	5
CAB 230 Estimating Costs in Cabinetmaking	2
CAR 112 Floors, Walls, Site Prep	3
CAR 113 Floors, Walls, Site Prep Lab	3
CAR 121 Introduction to Blueprint	3
CAR 131 Roof and Ceiling Systems	3
CAR 133 Roof and Ceiling Systems Lab	3
CAR 211 Construction Specialties or	
CAR 226 Metal Framing	3
CAR 217 Estimating Materials	3
CAR/CAB Electives	6
Total Major Requirements	45

Minor Requirements

Business Management and Supervision 30999 CBU

BUS 241 Principles of Accounting I or	
ACT 141 Basic Accounting Principles	3
BUS 275 Principles of Management	3
BUS 285 Principles of Marketing	3
BUS 279 Small Business Management	3
Total Minor Requirements	12

Minor Requirements

Welding 309999 CCW

WDT 108 SMAW Fillet/OFC	3
WDT 109 SMAW Fillet/PAC/CAC	3
WDT 122 SMAW Fillet/OFC Lab	3
WDT 123 SMAW Fillet/PAC/CAC Lab	3
Total Minor Requirements	12

General Requirements 18

Total Requirements for AOT Degree 75

*Computer competency skills are embedded within one or more courses required in this curriculum.

Carpentry/Cabinetmaking:

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Cosmetology**AOT Degree**

Available: Shoals Campus

Advisors: C. Bankston (5265) bankstonc@nwscc.eduT. Sharp (5420) tsharp@nwscc.eduJ. Hackworth (5335) joehackworth@nwscc.edu

Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	3
English Composition I and/or Technical Writing	
Area II: Humanities and Fine Arts	3
Area III: Natural Science and Mathematics	9
A minimum of 3 hours in degree creditable mathematics is required. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.	
Area IV: History, Social and Behavioral Sciences	3
Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.	

Minimum General Requirements 18

Major Requirements	Semester Hours
COS 111 Cosmetology Science and Art	3
COS 112 Cosmetology Science and Art Lab	3
COS 113 Chemical Methodology	3
COS 114 Chemical Methodology	3
COS 121 Colorimetry	3
COS 122 Colorimetry Applications	3
COS 123 Cosmetology Salon Practices	3
COS 124 Salon Management	3
COS 131 Esthetics	3
COS 132 Esthetics Applications	3
COS 143 Hair Designs	3
COS 181 Special Topics	3
COS Electives	6
Total Major Requirements	42

Minor Requirements

Business Management and Supervision 309999 COB	
BUS 241 Principles of Accounting I or	
ACT 141 Basic Accounting Principles	3
BUS 275 Principles of Management	3
BUS 285 Principles of Marketing	3
BUS 279 Small Business Management	3
Total Minor Requirements	12

Minor Requirements

Cosmetology Instructor Training 309999 COT	
CIT 211 Teaching and Curriculum Development	3
CIT 212 Teacher Mentorship	3
CIT 213 Lesson Plan Development	3
CIT 221 Lesson Plan Implementation	3
CIT 222 Instructional Materials and Methods	3
CIT 223 Instructional Materials and Methods Applications	3
COS 167 State Board Review	3
COS 168 Bacteriology and Sanitation	3
Total Minor Requirements	24

General Requirements 18**Total Requirements for AOT Degree with Minor in Business Management and Supervision** 72**Total Requirements for AOT Degree with Minor in Cosmetology Instructor Training** 84

*Computer competency skills are embedded within one or more courses required in this curriculum.

Cosmetology:**Career Certificate - page 92****Short-Term Certificate - pages 103 & 104****Cosmetology Services**

The Cosmetology Program offers salon services to the public on selected days. Students perform hairstyling as well as chemical, facial and nail services for a minimum charge. For further information on scheduling an appointment contact the instructors at: Nail Technology (256) 331-5220, Skin Care/Facials (256) 331-5295, and Hairstyling Services (256) 331-5304.

Electrical Technology 309999 **AOT Degree**

Available: Shoals Campus
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J. Hackworth (5335) joehackworth@nwsc.edu

Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	3
English Composition I and/or Technical Writing	
Area II: Humanities and Fine Arts	3
Area III: Natural Science and Mathematics	9
A minimum of 3 hours in degree creditable mathematics is required. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.	
Area IV: History, Social and Behavioral Sciences	3
Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.	

Minimum General Requirements 18

Major Requirements

	Semester Hours
ELT 114 Residential Wiring Methods	3
ELT 117 AC/DC Machines	3
ELT 118 Commercial/Industrial Wiring I	3
ELT 119 Concepts of Solid State	5
ELT 121 Concepts of Digital Electronics	5
ELT 122 Advanced AC/DC Machines	3
ELT 132 Commercial/Industrial Wiring II	3
ELT 209 Motor Control I	3
ELT 212 Motor Control II	3
ELT 219 Fluid Power Systems	3
ELT 231 Programmable Controls I	3
ELT 232 Programmable Controls II	3
ELT 242 Journeyman Master Prep Exam	3
Total Major Requirements	43

Minor Requirements 309999 EAC

Air Conditioning/Refrigeration Technology

ACR 111 Refrigeration Principles	3
ACR 121 Principles of Electricity for HVACR (or ELT 111)	3-5
ACR 122 HVACR Electrical Circuits (or ELT 112)	3-5
ACR Elective	1-3
Total Minor Requirements	12

General Requirements 18

Total Requirements for AOT Degree 73

*Computer competency skills are embedded within one or more courses required in this curriculum.

Electrical Technology:

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Machine Shop Technology 309999 MWT
AOT Degree

Available: Shoals Campus
 Advisors: T. Maupin (5247) tmaupin@nwsc.edu
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 J. Hackworth (5335) joehackworth@nwsc.edu

Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

Semester Hours

Area I:	Written Composition 3 English Composition I and/or Technical Writing
Area II:	Humanities and Fine Arts 3
Area III:	Natural Science and Mathematics 9 A minimum of 3 hours in degree creditable mathematics is required. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.
Area IV:	History, Social and Behavioral Sciences 3 Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.

Minimum General Requirements 18

Major Requirements	Semester Hours
MSP 101 Basic Machining Technology	5
MSP 102 Intermediate Machining Technology	5
MSP 103 Advanced Machining Technology	5
MSP 104 Basic Machining Calculations	2
MSP 105 Lathes	3
MSP 107 Milling Machines	3
MSP 115 Advanced Milling Machines	5
MSP 121 Basic Blueprint Reading for Machinists	2
MSP 131 Introduction to Metrology	2
MSP 142 Advanced Machining Calculations	2
MSP 181 Special Topics	2
MSP 221 Advanced Blueprint Reading	2
MSP Electives	7
Total Major Requirements	45

Minor Requirements

Welding

WDT 108 SMAW Fillet/OFC	3
WDT 109 SMAW Fillet/PAC/CAC	3
WDT 122 SMAW Fillet/OFC Lab	3
WDT 123 SMAW Fillet/PAC/CAC Lab	3
Total Minor Requirements	12

General Requirements 18

Total Requirements for AOT Degree 75

*Computer competency skills are embedded within one or more courses required in this curriculum.

**Machine Shop Technology:
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Welding AOT Degree

Available: Shoals Campus
 Advisors: W. Garner (5254) wgarner@nwsc.edu
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Core Degree Requirements for the Associate in Occupational Technology Degree

Entering students are required to complete ORT 100. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	3
English Composition I and/or Technical Writing	
Area II: Humanities and Fine Arts	3
Area III: Natural Science and Mathematics	9
A minimum of 3 hours in degree creditable mathematics is required. The additional 6 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology and computer science.	
Area IV: History, Social and Behavioral Sciences	3
Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.	

Minimum General Requirements 18

Major Requirements	Semester Hours
WDT 108 SMAW Fillet/OFC	3
WDT 109 SMAW Fillet/CAC	3
WDT 110 Industrial Blueprint Reading	3
WDT 115 GTAW Carbon Pipe Theory	3
WDT 119 Gas Metal Arc/Flux Cored Arc Welding Theory .	3
WDT 120 Shielded Metal Arc Welding Groove Theory	3
WDT 122 SMAW Fillet/OFC Lab	3
WDT 123 SMAW Fillet/PAC/CAC Lab	3
WDT 124 Gas Metal Arc/Flux Cored Arc Welding Lab	3
WDT 125 Shielded Metal Arc Welding Groove Lab.....	3
WDT 155 GTAW Carbon Pipe Lab	3
WDT 182 Special Topics	3
WDT 184 Special Topics	1
WDT 217 SMAW Carbon Pipe Theory	3
WDT 218 Certification Theory	3
WDT 228 Gas Tungsten Arc Welding Theory	3
WDT 257 SMAW Carbon Pipe Lab	3
WDT 268 Gas Tungsten Arc Lab	3
Total Major Requirements	48-52

Minor Requirements

Machine Shop Technology	309999 WMS
MSP 101 Basic Machining Technology	5
MSP 102 Intermediate Machining Technology	5
MSP 121 Basic Blueprint Reading for Machinists	2
Total Minor Requirements	12

Minor Requirements

Air Conditioning/Refrigeration Technology	309999 WAC
ACR 111 Refrigeration Principles	3
ACR 115 Heating Systems	3
ACR 132 Residential Air Conditioning	3
ACR 133 Domestic Refrigeration	3
Total Minor Requirements	12

Minor Requirements

Automotive Service Technology	309999 AUT
AUM 133 Motor Vehicle Air Conditioning	3
AUM 101 Fundamentals of Automotive Technology	3
AUM 121 Braking Systems	3
AUM 110 Electrical and Electronic Systems I	3
Total Minor Requirements	12

Minor Requirements

Carpentry Technology	309999 WCR
CAR 121 Introduction to Blueprint Reading	3
CAR 134 Stairs, Moldings, and Trim	3
CAR 226 Metal Framing	3
CAR 217 Estimating	3
Total Minor Requirements	12

General Requirements 18

Total Requirements for AOT Degree 78

*Computer competency skills are embedded within one or more courses required in this curriculum.

Welding:

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