

### Accounting – Business Management

**PROGRAM REQUIREMENTS**

	Credit Hours
GENERAL EDUCATION .....	22
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
ENGL 1213 English Composition II (or)	
BSAD 2113 Business Communications...	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1513 College Algebra .....	3
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	3
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
BUSINESS CORE REQUIREMENTS .....	15
ACCT 2103 Accounting I-Financial .....	3
ACCT 2203 Accounting II-Managerial.....	3
BSAD 1103 Introduction to Business .....	3
CS 2123 Business Tech. & Applications ....	3
ECON2123 Microeconomic Principles	
PROGRAM REQUIREMENTS .....	15
ACCT 2123 Computer Accounting I .....	3
BMGT 2143 Marketing (or)	
BMGT2163 Intro. to E-Commerce .....	3
BMGT 2233 Human Resource Mgt .....	3
BMGT 2263 Principles of Management .....	3
ECON 2113 Macroeconomic Principles .....	3
RECOMMENDED ELECTIVES .....	8-9
BMGT 2240 Business Internship .....	2-3
JOUR 2113 Principles of Advertising .....	3
PSYC 1113 Psychology (or)	
SOCI 1113 Sociology .....	3
SPCH 1713 Intro to Oral Communication...	3
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	16
ACCT 2103 Accounting I-Financial .....	3
BSAD 1103 Introduction to Business .....	3
ENGL 1113 English Composition I .....	3
MATH 1513 College Algebra .....	3
ORNT 1101 Freshman Orientation .....	1
POLI 1113 American Government .....	3
SECOND SEMESTER .....	16
ACCT 2203 Accounting II-Managerial .....	3
CS 1113 Computer Concepts .....	3
ECON 2123 Microeconomic Principles .....	3
ENGL 1213 English Composition II (or)	
BSAD 2113 Business Communications ...	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .	3
HPEA Activity Elective .....	1
THIRD SEMESTER .....	15
ACCT 2123 Computer Accounting I .....	3
BMGT 2263 Principles of Management .....	3
CS 2123 Bus. Tech. & Applications .....	3
ECON 2113 Macroeconomic Principles .....	3
General Education Elective .....	3
FOURTH SEMESTER.....	15
BMGT 2143 Marketing (or)	
BMGT2163 Introduction to E-Commerce .	3
BMGT 2233 Human Resource Management	3
HPEA Activity Elective .....	1
Recommended Electives .....	8

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Applied Science degree.

The Associate in Applied Science degree program in Accounting—Business Management can be completed in conjunction with the Associate in Science degree in Business Administration, allowing a student to graduate from Northern holding two degrees. Twelve credit hours in addition to the Associate in Science in Business Administration will complete the dual degree program.

The Business Division is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Outstanding Business students are invited to join Kappa Beta Delta, the business honor society recognized by ACBSP.

**Career Opportunities**

- Basic Entrepreneurial Activities
- Bookkeeping/Accounting Clerk
- Entry-Level Management

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Applied Technology: Navy Personnel Training Option  
Advanced Electronics and Computer Field Rating  
AECF Electronics Technician (ET)**

<p><b>PROGRAM REQUIREMENTS</b></p> <p align="right">Credit Hours</p> <p>GENERAL EDUCATION ..... 24</p> <p><b>COMMUNICATIONS</b></p> <p>ENGL 1113 English Composition I ..... 3</p> <p>ENGL 1213 English Composition II (or) ENGL 1223 Technical Writing ..... 3</p> <p><b>HISTORY AND GOVERNMENT</b></p> <p>HIST 1483 American History to 1865 (or) HIST 1493 Am. History Since 1865 ..... 3</p> <p>POLI 1113 American Government ..... 3</p> <p><b>MATHEMATICS</b></p> <p>MATH 1513 College Algebra ..... 3</p> <p><b>COMPUTER SCIENCE</b></p> <p>CS 1113 Computer Concepts ..... 3</p> <p><b>GENERAL EDUCATION ELECTIVES</b>..... 6</p> <p>Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences</p> <p><b>GUIDED ELECTIVES</b> ..... 6</p> <p>GEOG 2253 World Regional Geography ... 3</p> <p>SPCH 1713 Intro to Oral Communication... 3</p> <p><b>EXPERIENTIAL TECHNICAL TRNFER CREDIT ACCEPTED FROM THE NAVY</b> ..... 30</p> <p><b>NAVY PHYS EDUCATION COURSES</b> ..... 2</p> <p><b>TOTAL CREDIT HOURS</b>..... 62</p>	<p><b>EXPERIENTIAL TECHNICAL TRNFER CREDIT</b></p> <p align="right">Credit Hours</p> <p><b>NAVY TRAINING</b> ..... 16</p> <p>A-100-01 46 Combat Systems Technical Core Electronics Technician/Fire Control Technician</p> <p>AC/DC Circuits ..... 3</p> <p>Solid State Electronics ..... 3</p> <p>Digital Principles ..... 3</p> <p>Communication Systems ..... 3</p> <p>One of the following Strands: A-100-01 46 Electronics Technician Communications Strand: Communications w/ Radar Endorsement4 (or) A-100-01 47 Electronics Technician Radar Strand: Radar Theory, Operation, &amp; Maintenance (with radio endorsement) ..... 4</p> <p><b>JOB EXPERIENCE CREDITS</b> ..... 21</p> <p>Seaman</p> <p>Nautical Science (Seamanship) ..... 3</p> <p>Nautical Science (Navigation) ..... 3</p> <p>Swimming (If qualified as a swimmer, First Class) ..... 1</p> <p>AECF Electronics Technician, Third Class</p> <p>Basic Electronics Laboratory ..... 3</p> <p>Digital Principles ..... 3</p> <p>Electronics Systems Troubleshooting and Maintenance ..... 3</p> <p>Technical Math ..... 2</p> <p>Control Systems ..... 1</p> <p>Electronic Communications ..... 1</p> <p>AC &amp; DC Circuits ..... 1</p> <p align="center"><b>COURSE LISTINGS EXCLUDE RECRUITING TRAINING</b></p>	<p>This program provides Navy personnel with the opportunity to receive college credit for the training and instruction the students receive in the United States Navy technical programs and their related job experiences. General Education and support courses are taught by Northern Oklahoma College. Upon successful completion students will receive an Associate in Applied Science degree in Applied Technology with a Navy rating in the Advanced Electronics and Computer Field of Electronics Technician.</p> <p><b>Career Opportunities</b></p> <p>Advanced Electronic Computer Field of Electronics Technician</p> <p>NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:</p> <ul style="list-style-type: none"> <li>• MATH 0003 Pre-Algebra</li> <li>• MATH 0023 Concepts of Algebra</li> <li>• MATH 0123 Intermediate Algebra</li> <li>• ENGL 0123 Basic Composition</li> <li>• READ 0123 Basic Reading</li> <li>• READ 1113 College Reading</li> <li>• BSCI 0123 Intro to Basic Science</li> </ul>
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**Applied Technology: Navy Personnel Training Option  
Advanced Electronics and Computer Field Rating  
AECF Fire Controlman (FC)**

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**Applied Technology: Navy Personnel Training Option  
Advanced Electronics and Computer Field Rating  
Aviation Electronics Technician (AT)**

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**Applied Technology: Navy Personnel Training Option  
Advanced Electronics and Computer Field Rating  
Fire Control Technician (FT)**

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**Applied Technology: Navy Personnel Training Option  
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Radiation Protection Technology .....	1																																																																																																													
General Chemistry and Principles of Materials .....	3																																																																																																													
Technical Mathematics .....	4																																																																																																													
Hydraulic Systems.....	2																																																																																																													
DC Circuits.....	2																																																																																																													
AC Circuits.....	2																																																																																																													
Digital Principles.....	2																																																																																																													
Electric Machines .....	2																																																																																																													
 <b>JOB EXPERIENCE CREDITS</b> .....	 14																																																																																																													
<b>Nuclear Field Electronics Technician Third Class</b>																																																																																																														
Basic Electronics Lab .....	2																																																																																																													
Digital Principles.....	2																																																																																																													
Technical Mathematics .....	2																																																																																																													
Control Systems .....	1																																																																																																													
DC Circuits.....	1																																																																																																													
AC Circuits.....	1																																																																																																													
Electronic Communications.....	1																																																																																																													
 <b>COURSE LISTINGS EXCLUDE RECRUITING TRAINING</b>																																																																																																														

**Applied Technology: Navy Personnel Training Option  
Advanced Electronics and Computer Field Rating  
Nuclear Field Machinist's Mate (NF MM)**

<p><b>PROGRAM REQUIREMENTS</b></p> <p style="text-align: right;">Credit Hours</p> <p>GENERAL EDUCATION ..... 24</p> <p>COMMUNICATIONS</p> <p>ENGL 1113 English Composition I ..... 3</p> <p>ENGL 1213 English Composition II (or)</p> <p>ENGL 1223 Technical Writing ..... 3</p> <p>HISTORY AND GOVERNMENT</p> <p>HIST 1483 American History to 1865 (or)</p> <p>HIST 1493 Am. History Since 1865 ..... 3</p> <p>POLI 1113 American Government ..... 3</p> <p>MATHEMATICS</p> <p>MATH 1513 College Algebra ..... 3</p> <p>COMPUTER SCIENCE</p> <p>CS 1113 Computer Concepts ..... 3</p> <p>GENERAL EDUCATION ELECTIVES ..... 6</p> <p>Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences</p> <p>GUIDED ELECTIVES ..... 6</p> <p>GEOG 2253 World Regional Geography ... 3</p> <p>SPCH 1713 Intro to Oral Comm..... 3</p> <p>EXPERIENTIAL TECHNICAL TRNFER CREDIT ACCEPTED FROM THE NAVY ..... 30</p> <p>NAVY PHYS EDUCATION COURSES ..... 2</p> <p>TOTAL CREDIT HOURS..... 62</p>	<p><b>EXPERIENTIAL TECHNICAL TRNFER CREDIT</b></p> <p style="text-align: right;">Credit Hours</p> <p>NAVY TRAINING ..... 38</p> <p>A-661 -0103 Nuclear Field Class 'A' School Machinist's Mate</p> <p>Mechanical Physics ..... 3</p> <p>Steam Plant Operations (Turbines, Condensers ,Heat Exchangers and System Components) ..... 3</p> <p>Technical Math including Algebra II.... 3</p> <p>A-661 -0010 Naval Nuclear Power School, Enlisted</p> <p>Applied Thermodynamics and Heat Transfer ..... 3</p> <p>Atomic and Nuclear Physics ..... 1</p> <p>Basic Electricity ..... 3</p> <p>General Chemistry and Principles of Materials ..... 3</p> <p>General Physics ..... 5</p> <p>Heat Transfer and Fluid Flow ..... 3</p> <p>Nuclear Reactor Engineering ..... 3</p> <p>Power Plant Systems ..... 3</p> <p>Radiation Protection Technology ..... 1</p> <p>Technical Mathematics ..... 4</p> <p>JOB EXPERIENCE CREDITS ..... 16</p> <p>Fireman</p> <p>Introduction to Marine Engineering .... 3</p> <p>Blueprint Reading ..... 1</p> <p>Swimming (if qualified as a Swimmer, First Class) ..... 1</p> <p>Machinist's Mate, Third Class</p> <p>Applied Computer Technology ..... 1</p> <p>Basic Marine Engineering ..... 3</p> <p>Blueprint Reading..... 1</p> <p>Power Systems Engineering (Steam Turbines)..... 3</p> <p>Power Systems Maintenance..... 3</p> <p style="text-align: center;">COURSE LISTINGS EXCLUDE RECRUITING TRAINING</p>	<p>This program provides Navy personnel with the opportunity to receive college credit for the training and instruction the students receive in the United States Navy technical programs and their related job experiences. General Education and support courses are taught by Northern Oklahoma College. Upon successful completion students will receive an Associate in Applied Science degree in Applied Technology with a Navy rating in the Advanced Electronics and Computer Field of Electronics Technician.</p> <p><b>Career Opportunities</b></p> <p>Advanced Electronics Computer Field of Nuclear Field Machinist's Mate</p> <p>NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:</p> <ul style="list-style-type: none"> <li>• MATH 0003 Pre-Algebra</li> <li>• MATH 0023 Concepts of Algebra</li> <li>• MATH 0123 Intermediate Algebra</li> <li>• ENGL 0123 Basic Composition</li> <li>• READ 0123 Basic Reading</li> <li>• READ 1113 College Reading</li> <li>• BSCI 0123 Intro to Basic Science</li> </ul>
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**Digital Media Animation And Design**

**PROGRAM REQUIREMENTS**

	Credit Hours
GENERAL EDUCATION .....	19
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
ENGL 1213 English Composition II.....	3
HISTORY AND GOVERNMENT	
HIST1483 American History to 1865 (or)	
HIST1493 American History Since 1865 ..	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra .....	3
SPEECH	
SPCH 1713 Intro to Oral Comm.....	3
ORIENTATION	
ORNT 1101 Freshmen Orientation .....	1
TECHNICAL CORE .....	20
DMAD 1113 Intro to Digital Video - 2D	
Animation .....	3
DMAD 1123 Web Design-Dreamweaver .	3
DMAD 1133 Intro to 3D Anim-Maya .....	3
DMAD 1213 Graphic Design-Photoshop .	3
DMAD 1223 Intm Web Design-Flash.....	3
DMAD 1233 Digital Filmmaking .....	3
DMAD 1142 Media Ethics.....	2
TECHNICAL SUPPORT COURSES .....	24
DMAD 2313 Motion Graphics I .....	3
DMAD 2323 3D Animation II-Maya .....	3
DMAD 2333 3D Animation III-Maya .....	3
DMAD 2343 Texturing - Photoshop.....	3
DMAD 2353 Digital Video II-Premiere .....	3
DMAD 2363 Inter DVD Auth-Encore .....	3
DMAD 2373 Motion Graphics II .....	3
DMAD 2383 Multimedia Project .....	3
REQUIRED CORE CREDIT HOURS .....	63
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	65

**PROGRAM REQUIREMENTS**

	Credit Hours
FALL SEMESTER.....	18
ORNT 1101 Freshmen Orientation .....	1
ENGL 1113 English Composition I.....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ...	3
DMAD 1213 Graphic Design - Photoshop.....	3
DMAD 1123 Web Design - Dreamweaver.....	3
DMAD 1113 Intro to Digital Video –	
2D Animation .....	3
DMAD 1142 Media Ethics .....	2
SPRING SEMESTER .....	16
ENGL 1213 English Composition II .....	3
POLI 1113 American Government.....	3
DMAD 1133 Intro to 3D Animation-Maya.....	3
DMAD 1223 Intermediate Web Design –	
Flash.....	3
DMAD 1233 Digital Filmmaking.....	3
HPEA Physical Education.....	1
FALL SEMESTER .....	16
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra .....	3
DMAD 2313 Motion Graphics I .....	3
DMAD 2323 3D Animation II - Maya.....	3
DMAD 2343 Texturing - Photoshop.....	3
DMAD 2373 Motion Graphics II .....	3
HPEA Physical Education.....	1
SPRING SEMESTER.....	15
SPCH 1713 Intro to Oral Comm .....	3
DMAD 2333 3D Animation III - Maya.....	3
DMAD 2383 Multimedia Project.....	3
DMAD 2353 Digital Video II - Premiere.....	3
DMAD 2363 Interactive DVD Authoring –	
Encore.....	3

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.

The Digital Media Animation and Design program is designed to provide new opportunities for creative artists in the growing field of digital media. The program will prepare individuals with the knowledge and skills necessary to communicate their ideas through the art of advanced computer graphics.

**Career Opportunities**

- Graphic Designer / Web Designer
- Motion Graphics Animator
- 3D Modeler/Animator
- Post-Production Specialist
- Visual Effects Artist
- Editor ~ Movies, Commercials, Broadcast

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Engineering Technology - Die Cast Process Technician Option**

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION.....	21
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
ENGL 1213 English Composition II (or)	
SPCH 1713 Introduction to Oral Communication .....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865.....	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra .....	3
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
GENERAL EDUCATION SUPPORT	
BSAD 1103 Introduction to Business.....	3
TECHNICAL OCCUPATIONAL SPECIALTY .....	39
Students must complete the following coursework at the MerCruiser Corporation: (Contact hours are listed within parentheses)	
IH-OT Operator Training Program (535 hrs), EC-305 Metallurgy of Aluminum Die Casting Alloys (136 hrs), EC-407 Machine Maintenance: Mechanics (144 hrs), EC-410 Process Control (152 hrs), EC-411 Die Casting Lubricants and Coolants (136 hrs), EC-415 Die Cooling Systems Engineering (144 hrs), EC-515 Die Casting Defects (144 hrs), EC-211 Dimensional Repeatability (136 hrs), EC-413 Problem Solving (144 hrs), EC-514 Gating Design (144 hrs), EC-501 Die Material Metallurgy & Extending Die Life (144 hrs), EC-606 Product Design (136 hrs) and EC Die Casting Machine Safety (48 hrs). Courses may be substituted with graduation adviser's approval.	
Students are required to pass a certification examination for each of the above courses before credit can be transcribed.	
TOTAL CREDIT HOURS.....	60

This Associate in Applied Science degree program is designed to provide the engineers, technicians, and manufacturing specialists of the MerCruiser Corporation in Stillwater, Oklahoma, an opportunity to complete an Associate degree specifically designed to prepare them with the knowledge, technical skills, and job-related experiences necessary to make a significant contribution to their corporation. The specific areas of math, physics, and engineering mechanics form the basics of the degree program. A secondary objective of this program is the perpetuation of a quality workforce and statewide economic development.

Career Opportunities

Die Cast Process Technician

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Engineering Technology - Engineering Technician Option

### PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION .....	21
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
ENGL 1213 English Composition II (or)	
SPCH 1713 Introduction to Oral Communication.....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra .....	3
COMPUTER SCIENCE	
CS 1113 Computer Concepts.....	3
GENERAL EDUCATION SUPPORT	
BSAD 1103 Introduction to Business .....	3
TECHNICAL OCCUPATIONAL SPECIALTY .....	42
<p>Students must complete the following coursework at the MerCruiser Corporation:</p> <p>(Contact hours are listed within parentheses)</p> <p>Math I (8 hrs), Math II (32 hrs), Math III (24 hrs), Math IV (32 hrs), Fork Truck License (3 hrs), Blueprint Reading (30 hrs), Machining I (48 hrs), Technical Writing (24 hrs), Gaging, Measurement &amp; Layout (39 hrs), Tools Machining II (60 hrs), Welding (69 hrs), Hydraulics &amp; Pneumatics (48 hrs) Electricity (48 hrs), Electronics (60 hrs), Four Cycle Engine Theory (36 hrs), Engine Fuel Systems (15 hrs), Engine Electrical System (15 hrs), Engine Electronic Fuel Injection (36 hrs), Metallurgy (35 hrs), Stern Drive Theory (18 hrs), Computer Training (58 hrs), ABYC/USCG Awareness (12 hrs), Boating Safety (7 hrs), Test Request System (3 hrs), Applied Physics/Basic Mechanics (50 hrs), Interpersonal &amp; Communication Skills (24 hrs). Additional courses may be taken with graduation adviser's approval.</p> <p>Students are required to pass a certification examination for each of the above courses before credit can be transcribed.</p>	
TOTAL CREDIT HOURS .....	63

This Associate in Applied Science degree program is designed to provide the engineers, technicians, and manufacturing specialists of the MerCruiser Corporation in Stillwater, Oklahoma, an opportunity to complete an Associate degree specifically designed to prepare them with the knowledge, technical skills, and job-related experiences necessary to make a significant contribution to their corporation. The specific areas of math, physics, and engineering mechanics form the basis of the degree program. A secondary objective of this program is the perpetuation of a quality workforce and statewide economic development.

#### Career Opportunities

- Engineering Technician
- Industry
- MerCruiser

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Engineering Technology - Manufacturing Technology Option**

PROGRAM REQUIREMENTS	ORIGINATING CAMPUS		
	Credit Hours	Credit Hours	
GENERAL EDUCATION .....	<u>NOC</u>	<u>OSU</u>	<u>TOTAL</u>
COMMUNICATIONS			
ENGL 1113 English Composition I..... 3	3	0	3
ENGL 1213 English Composition II .....3	3	0	3
HISTORY AND GOVERNMENT			
HIST 1483 American History to 1865 (or)			
HIST 1493 Am. History Since 1865 .....3	3	0	3
POLI 1113 American Government .....3	3	0	3
HUMANITIES			
Electives..... 6	6	0	6
MATHEMATICS			
MATH 1493 Math Applications (or)			
MATH 1513 College Algebra ..... 3	3	0	3
	<u>21</u>	<u>0</u>	<u>21</u>
TECHNICAL OCCUPATIONALLY SPECIALTY ..28			
GENT 1153 Engr. Graphics ..... 3	0	3	3
MET 1223 Comp.-Aided Draft/Design.... 3	0	3	3
MET 2213 Machine Drafting..... 3	0	3	3
MET 4013 Computer-Aided Design ..... 3	0	3	3
GENT 1223 Manufacturing Processes (or)			
MET 2103 Industrial Materials ..... 3	0	3	3
GENT 2323 Statistics ..... 3	0	3	3
GENT 3323 Strength of Materials ..... 3	0	3	3
MET 2313 Fund. of Hydr Fluid Power (or)			
MET 3413 Fund. Of Pneumatic Power.. 3	0	3	3
EET 1104 Essentials of Electricity ..... 4	0	4	4
Substitutions may be made with prior approval.	0	28	28
TECHNICAL OCCUPATIONAL SUPPORT ..... 8			
PHYS 1114 Physics ..... 4	4	0	4
PHYS 1214 Physics II ..... 4	4	0	4
	<u>8</u>	<u>0</u>	<u>8</u>
TECHNICAL OCCUPATIONAL RELATED..... 7			
CS 2113 PASCAL, C Prog, C++, (or)			
CS 1013 Visual Basic Programming ..... 3	3	0	3
CHEM 1314 Chemistry I..... 4	4	0	4
	<u>7</u>	<u>0</u>	<u>7</u>
<b>TOTAL CREDIT HOURS..... 64</b>	<u>36</u>	<u>28</u>	<u>64</u>

This Associate in Applied Science degree in Engineering Technology- Manufacturing Technology Option is designed with special emphasis on a field of study that is immediately applicable to the needs of MerCruiser. This degree program is provided in conjunction with Oklahoma State University. The specific areas of math, physics, and engineering mechanics form the basis of the degree program.

**Career Opportunities**

- Industry
- Manufacturing
- Mechanical Engineer
- MerCruiser

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Engineering Technology - Marine Propulsion Technology Option

### PROGRAM REQUIREMENTS

#### Credit Hours

GENERAL EDUCATION.....	29
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing (or)	
SPCH 1713 Introduction to Oral Communication.....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865.....	3
POLI 1113 American Government.....	3
HUMANITIES.....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra.....	3
SCIENCE	
One Biological Science with Lab.....	4
One Physical Science with Lab.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts.....	3
TECHNICAL OCCUPATIONAL SPECIALTY.....	31
<p>Marine Propulsion Technology Courses (Up to 31 hours may be accepted)                      The Technical Occupational Specialty Course credits will be awarded for experiential training through formal, professional and certification-directed seminars, workshops and institutes taken in the following areas: Geometric Tolerancing, Fuel Systems, Engine Theory and Test Procedures, DC Electronic Systems, Electronic Fuel Injection, Basic Hydraulics, Statistical Process Control I, Mechanical Dynamic Measurements, Tool Room Formulas, Statistical Process Control II, FANUC Control, Engine and Stern Drive Test and Repair, Electronics, Welding, Machine Tools, Machining, Practical Shop Mathematics, AutoCAD I, AutoCAD II, AutoCAD III, Industrial Electricity, Engine Airflow Drive, AMA Maintenance at the Lieburg Institute, Marine Velvet Drive, Train the Trainer, 4-Speed Automatic Transmissions, Supervised Studies in Marine Propulsion Technology and others upon approval.</p>	
RECOMMENDED TECHNICAL OCCUPATIONAL ELECTIVES.....	0-10
<p>Welding, Machine Tools Practices, Practical Shop Mathematics, AutoCAD I-III, Mechanical Drafting, Engineering Design, Technical Drafting, Industrial Electricity, Industrial Materials, Statics, Strength of Materials, Fundamentals of Hydraulics and Fluid Power, Fundamentals of Pneumatic Power, others upon approval.</p>	
WORKSHOPS.....	0-3
<p>A student may combine three of the following workshops to substitute for one three hour course listed above within the Technical Occupational Specialty Courses:                      Engine Airflow Drive, AMA Maintenance at Lieburg Institute, Marine Velvet Drive, Train the Trainer, 4-Speed Automatic Transmission, others upon approval.</p>	
TOTAL CREDIT HOURS.....	60

This Associate in Applied Science degree program is designed to provide the engineers, technicians and manufacturing specialists of the MerCruiser Corporation in Stillwater, Oklahoma, an opportunity to complete an associate degree specifically designed to prepare them with the knowledge, technical skills and job-related experiences necessary to make a significant contribution to their corporation. The specific areas of math, physics and engineering mechanics form the basics of the degree program. A secondary objective of this program is the perpetuation of a quality workforce and statewide economic development.

#### Career Opportunities

Industry

Marine Propulsion Engineer

MerCruiser

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Engineering Technology - Process Technology Option

### PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION .....	27
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
SPCH 1713 Intro. to Oral Comm. ....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 ...	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
CHEM 1114 Concepts in Chemistry .....	4
PHYS 2104 Concepts in Physics .....	4
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVE	
ECON 2123 Microeconomic Principles. ...	3

PROGRAM REQUIREMENTS .....	39
CS 1113 Computer Concepts .....	3
CHEM 2014 Process Organic Chem .....	4
PTEC 1113 Intro to Process Technology .....	3
PTEC 1313 Safety, Health & Work Pract .....	3
PTEC 2014 Process Tech I-Equipment .....	4
PTEC 2024 Industrial Instrumentation .....	4
PTEC 2124 Process Tech II-Systems .....	4
PTEC 2214 Process Tech III-Operations .....	4
PTEC 1124 Process Troubleshooting .....	4
PTEC 2243 Principles of Quality .....	3
LEAD 2321 Principles of Leadership .....	1
PTEC 2251 PTEC Capstone .....	1
PTEC 2301 Industrial Observation .....	1
Substitutions may be made with prior approval.	

OPTIONAL SUPPORT COURSEWORK	
OGPT 2314 Oil & Gas Production I .....	4
OGPT 2324 Oil & Gas Production II .....	4
PTEC 2443 Pipeline Operation/Controls .....	3

These courses may be taken within this degree program to broaden the understanding of the upstream processes of the oil and gas production industry. These courses may not be substituted for courses listed under the program requirements. Consult your graduation adviser for more information and course scheduling.

TOTAL CREDIT HOURS .....	66
PHYS EDUCATION ACTIVITY COURSES .....	2
TOTAL CREDIT HOURS .....	68

### PROGRAM REQUIREMENTS

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CHEM 1114 Concepts in Chemistry .....	4
ORNT 1101 Freshman Orientation .....	1
PTEC 1113 Intro to Process Technology .....	3
PTEC 1313 Safety, Health & Work Pract .....	3
HPEA Activity Elective .....	1
LEAD 2321 Principles of Leadership .....	1
SECOND SEMESTER .....	17
CHEM 2014 Process Organic Chemistry .....	4
CS 1113 Computer Concepts .....	3
MATH 1513 College Algebra .....	3
PTEC 2014 Process Tech I-Equipment .....	4
PTEC 2243 Principles of Quality .....	3
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
PHYS 2104 Concepts in Physics .....	4
PTEC 2124 Process Tech II-Systems .....	4
PTEC 2024 Industrial Instrumentation .....	4
HPEA Activity Elective .....	1
FOURTH SEMESTER .....	19
ECON 2123 Microeconomic Principles. ....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
PTEC 2214 Process Tech III-Operations .....	4
PTEC 1124 Process Troubleshooting .....	4
PTEC 2251 PTEC Capstone .....	1
PTEC 2301 Industrial Observation .....	1
SPCH 1713 Intro. To Oral Communication .....	3

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Arts degree.

The Associate of Applied Science Degree program in Process Technology is developed in partnership with the Conoco/Phillips, British Petroleum, Sunoco, Valero, Sinclair, and other petrochemical corporations. It is designed to provide the student with entry level training to become a Process Technician in the petrochemical industry.

### Career Opportunities

- Industry
- Petrochemical Process Technician
- Process Technician
- Refinery

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Engineering Technology – Process Technology Option**  
**Area of Emphasis: Oil and Gas Production Technology**

**PROGRAM REQUIREMENTS**

	Credit Hours
GENERAL EDUCATION .....	27
COMMUNICATIONS	
ENGL 1113 English Composition I .....	3
SPCH 1713 Intro. to Oral Comm. ....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 ....	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
CHEM 1114 Concepts in Chemistry .....	4
PHYS 2104 Concepts in Physics .....	4
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVE	
ECON 2123 Microeconomic Principles...	3
PROGRAM REQUIREMENTS .....	31
CS 1113 Computer Concepts .....	3
CHEM 2014 Process Organic Chem.....	4
PTEC 1113 Intro to Process Technology..	3
PTEC 1313 Safety, Health & Work Pract .	3
PTEC 2014 Process Tech I-Equipment.....	4
PTEC 2024 Industrial Instrumentation .....	4
PTEC 2124 Process Tech II-Systems .....	4
PTEC 2243 Principles of Quality .....	3
LEAD 2321 Principles of Leadership .....	1
PTEC 2251 PTEC Capstone.....	1
PTEC 2301 Industrial Observation .....	1
Substitutions may be made with prior approval.	
AREA OF EMPHASIS REQUIREMENTS.....	8
OGPT 2314 Oil & Gas Production I.....	4
OGPT 2324 Oil & Gas Production II.....	4
OPTIONAL SUPPORT COURSEWORK	
PTEC 2214 Process Tech III-Operations .	4
PTEC 1124 Process Troubleshooting .....	4
PTEC 2443 Pipeline Operation/Controls ..	3
These courses may be taken within this degree program to broaden the understanding of process technology and pipeline operations and controls. These courses may not be substituted for courses listed under the program requirements. Consult your graduation adviser for more information and course scheduling.	
TOTAL CREDIT HOURS.....	66
PHYS EDUCATION ACTIVITY COURSES .....	2
TOTAL CREDIT HOURS.....	68

**PROGRAM REQUIREMENTS**

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I.....	3
CHEM 1114 Concepts in Chemistry.....	4
ORNT 1101 Freshman Orientation.....	1
PTEC 1113 Intro to Process Technology .....	3
PTEC 1313 Safety, Health & Work Pract .....	3
HPEA Activity Elective.....	1
LEAD 2321 Principles of Leadership .....	1
SECOND SEMESTER .....	17
CHEM 2014 Process Organic Chemistry.....	4
CS 1113 Computer Concepts.....	3
MATH 1513 College Algebra.....	3
PTEC 2014 Process Tech I-Equipment.....	4
PTEC 2243 Principles of Quality.....	3
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
PHYS 2104 Concepts in Physics .....	4
PTEC 2124 Process Tech II-Systems .....	4
OGPT 2314 Oil & Gas Production I.....	4
HPEA Activity Elective.....	1
FOURTH SEMESTER.....	19
ECON 2123 Microeconomic Principles.....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865.....	3
SPCH 1713 Intro. To Oral Communication ...	3
OGPT 2324 Oil & Gas Production II.....	4
PTEC 2024 Industrial Instrumentation.....	4
PTEC 2251 PTEC Capstone.....	1
PTEC 2301 Industrial Observation.....	1

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Arts degree.

The Associate of Applied Science Degree program area of emphasis in Oil and Gas Production Technology is developed with the Conoco/Phillips, Baker-Hughes, Chesapeake, British Petroleum, Sunoco, OERB, Valero, and other upstream exploration corporations. It is designed to provide the student with entry level training to become a Process Technician in the oil and gas production industry.

**Career Opportunities**

Process Technician in the Oil and Gas Industry

Process Technician

Petrochemical Process Technician

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Engineering Technology – Process Technology Option  
Area of Emphasis: Pipeline Operations & Control**

**PROGRAM REQUIREMENTS**

	Credit Hours
<b>GENERAL EDUCATION</b> .....	27
<b>COMMUNICATIONS</b>	
ENGL 1113 English Composition I .....	3
SPCH 1713 Intro. to Oral Comm. ....	3
<b>HISTORY AND GOVERNMENT</b>	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 ....	3
POLI 1113 American Government .....	3
<b>MATHEMATICS</b>	
MATH 1513 College Algebra .....	3
<b>SCIENCE</b>	
CHEM 1114 Concepts in Chemistry .....	4
PHYS 2104 Concepts in Physics .....	4
<b>ORIENTATION</b>	
ORNT 1101 Freshman Orientation .....	1
<b>GENERAL EDUCATION ELECTIVE</b>	
ECON 2123 Microeconomic Principles...	3
<b>PROGRAM REQUIREMENTS</b> .....	31
CS 1113 Computer Concepts .....	3
CHEM 2014 Process Organic Chemistry..	4
PTEC 1113 Intro to Process Technology .	3
PTEC 1313 Safety, Health & Work Pract .	3
PTEC 2014 Process Tech I-Equipment ....	4
PTEC 2024 Industrial Instrumentation .....	4
PTEC 2124 Process Tech II-Systems .....	4
PTEC 2243 Principles of Quality .....	3
LEAD 2321 Principles of Leadership.....	1
PTEC 2251 PTEC Capstone .....	1
PTEC 2301 Industrial Observation.....	1
Substitutions may be made with prior approval.	
<b>AREA OF EMPHASIS REQUIREMENTS</b> .....	11
PTEC 2214 Process Tech III-Operations .	4
PTEC 1124 Process Troubleshooting .....	4
PTEC 2443 Pipeline Operation/Controls ..	3
<b>OPTIONAL SUPPORT COURSEWORK</b>	
OGPT 2314 Oil & Gas Production I .....	4
OGPT 2324 Oil & Gas Production II .....	4
These courses may be taken within this degree program to broaden the understanding of the upstream processes of the oil and gas production industry. These courses may not be substituted for courses listed under the program requirements. Consult your graduation adviser for more information and course scheduling.	
<b>TOTAL CREDIT HOURS</b> .....	69
<b>PHYS EDUCATION ACTIVITY COURSES</b> ....	2
<b>TOTAL CREDIT HOURS</b> .....	71

**PROGRAM REQUIREMENTS**

	Credit Hours
<b>FIRST SEMESTER</b> .....	16
ENGL 1113 English Composition I .....	3
CHEM 1114 Concepts in Chemistry .....	4
ORNT 1101 Freshman Orientation .....	1
PTEC 1113 Intro to Process Technology .....	3
PTEC 1313 Safety, Health & Work Pract .....	3
HPEA Activity Elective .....	1
LEAD 2321 Principles of Leadership .....	1
<b>SECOND SEMESTER</b> .....	17
CHEM 2014 Process Organic Chemistry .....	4
CS 1113 Computer Concepts .....	3
MATH 1513 College Algebra .....	3
PTEC 2014 Process Tech I-Equipment .....	4
PTEC 2243 Principles of Quality .....	3
<b>THIRD SEMESTER</b> .....	19
POLI 1113 American Government.....	3
PHYS 2104 Concepts in Physics .....	4
PTEC 2124 Process Tech II-Systems .....	4
PTEC 2024 Industrial Instrumentation .....	4
SPCH 1713 Intro. To Oral Communication...	3
HPEA Activity Elective .....	1
<b>FOURTH SEMESTER</b> .....	19
ECON 2123 Microeconomic Principles.....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865.....	3
PTEC 2214 Process Tech III-Operations.....	4
PTEC 1124 Process Troubleshooting.....	4
PTEC 2443 Pipeline Operation/Controls...	3
PTEC 2251 PTEC Capstone.....	1
PTEC 2301 Industrial Observation .....	1

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Arts degree.

The Associate in Applied Science degree area with emphasis in Pipeline Operations and Control is developed with the Conoco/Phillips, British Petroleum, Sunoco, Valero, Sinclair, and other petrochemical corporations. It is designed to provide the student with entry level training to become a Process Technician in the area of Pipeline Transportation.

**Career Opportunities**

- Process Technician in the Pipeline Transportation
- Process Technician
- Petrochemical Process Technician

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Engineering Technology – Process Technology Option**  
**Area of Emphasis: Automation Technology – Instrumentation**

PROGRAM REQUIREMENTS	Credit Hours
GENERAL EDUCATION .....	19
COMMUNICATIONS	
ENGL 1113 English Composition I .....	3
SPCH 1713 Intro to Oral Communication (or)	
ENGL 1223 Technical Writing .....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865.....	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1513 College Algebra .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVE	
ECON 2123 Microeconomic Principles (or)	
BSAD 1103 Intro. to Business .....	3
PROGRAM REQUIREMENTS .....	27
CS 1113 Computer Concepts.....	3
CS 1013 Visual Basic Programming.....	3
CHEM 1114 Concepts in Chemistry .....	4
PTEC 1113 Introduction to Process Technology .....	3
PTEC 1313 Safety, Health & Work Practice .....	3
PTEC 2014 Process Tech I-Equipment.....	4
PTEC 2044 Industrial Instrumentation .....	4
LEAD 2321 Principles of Leadership .....	1
PTEC 2251 PTEC Capstone.....	1
PTEC 2301 Industrial Observation .....	1
Substitutions may be made with prior approval.	
AREA OF EMPHASIS (Pioneer & Meridian Technology Centers) .....	21
ET 1103 Fundamentals of Electricity/Electronics .....	3
ET 1253 DC Electronics/Metrology.....	3
ET 1263 AC Electronics/Photonics.....	3
ET 1363 Electronic Devices/Standards .....	3
ET 2253 Hydraulics & Pneumatics .....	3
ET 1373 Digital Sys/Microcontrollers .....	3
ET 2113 Intro. to PLC's & Troubleshooting.....	3
AREA OF EMPHASIS (Autry Technology Center) .....	22
ET 1103 Fund. Electricity/Electronics .....	3
ET 2243 Operational Amplifiers Tech.....	3
ET 1252 Pneumatic Controls .....	2
ET 2002 Hydraulic Systems.....	2
ET 1243 Circuit Analysis I.....	3
ET 2373 Digital Logic Analysis.....	3
ET 1123 Electrical Motor Controls.....	3
ET 2853 Programmable Logic Controllers .....	3
TOTAL CREDIT HOURS.....	67-68
PHYS EDUCATION ACTIVITY COURSES .....	2
TOTAL CREDIT HOURS.....	69-70

The Associate of Applied Science Degree program in Process Automation Technology - Instrumentation is developed in partnership with the ConocoPhillips Corporation in Ponca City, Oklahoma, the OGE Energy Corporation throughout the state of Oklahoma, and the Technology Centers of Autry-Enid, Meridian-Stillwater, and Pioneer-Ponca City. This suggested curriculum serves Oklahoma and Kansas by providing participants with the knowledge and skills to satisfy entry level job requirements for the regions' and nations' major employers. Hands-on technical skills are augmented with theory and general education classes to position graduates for immediate success.

**Career Opportunities**

From energy production and petrochemical processing, to manufacturing, to warehousing and distribution systems, nearly every facility has a demand for persons trained and skilled in Process Automation Technology - Instrumentation. That demand translates to some of industries highest paid positions and most diverse career challenges. These include:

- Process computer programming
- Graphics development
- Control and monitoring of complex process and environmental analytical systems
- Control and monitoring of production facilities

Contact your faculty Graduation Adviser to learn more about the opportunities available with an NOC AAS Automation Technology Degree.

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Engineering Technology - Quality Technician Option**

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION .....	18
COMMUNICATIONS	
ENGL 1113 English Composition I .....	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing (or)	
SPCH 1713 Introduction to Oral Communication.....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865.....	3
POLI 1113 American Government .....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra.....	3
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
TECHNICAL OCCUPATIONAL SPECIALTY.....	42
<p>Students will be awarded 42 credit hours of extra-institutional credit for certified coursework and job performance demonstration at the MerCruiser Corporation in the following areas: (Contact hours are listed within parentheses.)</p> <p>Math I (8 hrs), Math II (32 hrs), Blueprint Reading and Drafting (60 hrs), Math III (24 hrs), Math IV (32 hrs), Quality Systems (24 hrs), Computer—PIMS &amp;MS Office (48 hrs), Gaging, Measurement &amp; Layout Tools/Inspection I (39 hrs), Machinist Handbook &amp; Standards (6 hrs), Interpersonal &amp; Communication Skills (30 hrs), Math V (32 hrs) Dimensioning and Tolerance (12 hrs), Problem Solving (16 hrs), Metallurgy (35 hrs), Inspection II (30 hrs), Advanced Production Gaging (36 hrs), CMM Machine Usage (40 hrs), Geometric Dimensioning &amp; Tolerance II (12 hrs), Gage Design, Resolution and Calibration (36 hrs), SPC (40 hrs), Gage R&amp;R and ISO plot—Shainin (16 hrs), CMM Programming (60 hrs), Certified Quality Technician (30 hrs). Additional courses may be taken with adviser approval.</p> <p>Students are required to pass a certification examination for each of the above courses and complete 12 credit hours at Northern before credit can be transcribed.</p>	
TOTAL CREDIT HOURS .....	60

This Associate in Applied Science degree program is designed to provide the engineers, technicians, and manufacturing specialists of the MerCruiser Corporation in Stillwater, Oklahoma, an opportunity to complete an Associate degree specifically designed to prepare them with the knowledge, technical skills, and job-related experiences necessary to make a significant contribution to their corporation. The specific areas of math, physics, and engineering mechanics form the basis of the degree program. A secondary objective of this program is the perpetuation of a quality workforce and statewide economic development.

Career Opportunities

Quality Technician

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Industrial Technology - Power Generation Option

### PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION.....	18
COMMUNICATIONS	
ENGL 1113 English Composition I.....	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing (or)	
SPCH 1713 Introduction to Oral Communication.....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865.....	3
POLI 1113 American Government.....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra.....	3
COMPUTER SCIENCE	
CS 1113 Computer Concepts.....	3
TECHNICAL OCCUPATIONAL SPECIALTY .....	42
<p>Students will be awarded 42 credit hours of extra-institutional credit for certified coursework and job performance demonstration at the OGE Energy Corporation in the areas of Plant Operations, Instrumentation and Control, Plant Electricians, and Plant Mechanics at the following levels:</p> <p>Apprenticeship Level C-1, C-2 and C-3:                      Safety—PPE and First-aid, Fall Suppression, Worker Right to Know/HAZCOM, Envirochemical, Confined Space, Basic Shop Equipment, Prints &amp; Drawings, Clearance Procedures, Fuel Systems, SAP Notifications &amp; Confirmation Notes, Ash Removal Systems, Circulating Water Systems, Steam Cycle, Compressed Air Systems, Turbine Auxiliaries, Generator, Plant Electrical Systems, Water Treatment, Plant Instrumentation, Fire Protection Systems, Hand Signals, Electrical Circuit Basics.</p> <p>Apprenticeship Level B-1 and B-2:                      Coal System, Pulverizers and Feeders, Ash Systems, Closed Cooling Water System, Stator Cooling Water System, MCC Breaker System, Motor Megger, Pump/Motor Rigging &amp; Removal, Small Motor (25 HP or less) Overhaul, Tubing and Fittings, Metal Work and Welding, Main Turbine, Generator and Turbine Lube Oil Systems, Hydrogen Seal Oil System, Pump Seal Inspection, Heat Exchanger Inspection and Repair, Calibrate Gauge, Test &amp; Repair Pressure Switches.</p> <p>Apprenticeship Level A-1 and A-2:                      Control Loops, Piping, Condensate System, Feedwater System, Steam System, Closed Cooling Water System, Fuel System—Gas/Oil, Fuel System—Coal, Plant/Service Air System, Instrument/Control Air Systems, Emergency Generator, Waste Water Treatment System, Circulating Water System, Calibrate a Transmitter, Freeze Protection System, Centrifugal Pump, Test &amp; Calibrate Positioners &amp; Actuators, Lube Oil Systems, Generator/Electrical System, Test &amp; Repair Pneumatic &amp; Electronic Solenoid, Small Valve Refurbishment, Troubleshoot and Repair a Piston Actuator, Pump Bearing Inspection.</p> <p>Students are required to pass the OGE certification examination for each of the above levels and complete 12 credit hours at Northern before credit can be transcribed.</p>	
TOTAL CREDIT HOURS.....	60

This Associate in Applied Science degree program is designed to provide the employees of the OGE Energy Corporation of Oklahoma an opportunity to complete an associate degree specifically designed to prepare them with the knowledge, technical skills, and job-related experiences necessary to make a significant contribution to their corporation. The specific areas of operations, instrumentation and control, electrical, and mechanics form the basis of the degree program. Additional focus of this program is the perpetuation of a quality workforce, a higher quality of life for our citizenry and state-wide economic development.

#### Career Opportunities

- Instrument and Control Operator
- Plant Mechanic

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Nursing - Registered Nurse (RN)**

**PROGRAM REQUIREMENTS**

	Credit Hours
<b>GENERAL EDUCATION</b> .....	13
<b>COMMUNICATIONS</b>	
ENGL 1113 English Composition I .....	3
ENGL 1213 English Composition II .....	3
<b>HISTORY AND GOVERNMENT</b>	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
<b>ORIENTATION</b>	
ORNT 1101 Freshman Orientation .....	1
<b>NURSING CORE REQUIREMENTS</b> .....	18
BISI 1114 General Biology (or)	
CHEM 1314 General Chemistry I .....	4
General Biology or Chemistry I must be completed before enrolling in sophomore level science courses.	
BISI 2124 Microbiology .....	4
BISI 2104 Human Anatomy (or)	
BISI 2204 Human Physiology (or)	
BISI 2214 Human Anat. & Physiology.....	4
PSYC 1113 General Psychology .....	3
SOCI 1113 Principles of Sociology (or)	
SOCI 2223 Social Problems.....	3
<b>PROGRAM REQUIREMENTS</b> .....	37
NURS 1114 Fundamentals of Nursing.....	4
NURS 1124 Fundamentals of Practicum ...	4
NURS 1234 Nursing of Adults .....	4
NURS 1244 NSG. Of Adults I Pract. ....	4
NURS 2071 Seminar in Nursing I.....	1
NURS 2072 Seminar in Nursing II .....	2
NURS 2334 Maternal Child Nursing .....	4
NURS 2344 Maternal Child Nrsng Pract. ....	4
NURS 2415 Nursing of Adults II .....	5
NURS 2425 Nursing of Adults II Pract. ....	5
<b>TOTAL CREDIT HOURS</b> .....	68
<b>PHYS EDUCATION ACTIVITY COURSES</b> .....	2
<b>TOTAL CREDIT HOURS</b> .....	70

**PROGRAM REQUIREMENTS**

	Credit Hours
<b>FIRST SEMESTER</b> .....	17
* BISI 1114 General Biology (or)	
* CHEM 1314 General Chemistry I .....	4
NURS 1114 Fundamentals of Nursing.....	4
NURS 1124 Fundamentals Practicum .....	4
ORNT 1101 Freshman Orientation .....	1
* PSYC 1113 General Psychology.....	3
HPEA Activity Elective.....	1
<b>SECOND SEMESTER</b> .....	18
* BISI 2104 Human Anatomy (or)	
BISI 2204 Human Physiology (or)	
BISI 2214 Human Anatomy & Physiology ..	4
ENGL 1113 English Composition .....	3
NURS 1234 Nursing of Adults I .....	4
NURS 1244 Nursing of Adults I Practicum ..	4
* SOCI 1113 Principles of Sociology (or)	
* SOCI 2223 Social Problems.....	3
<b>THIRD SEMESTER</b> .....	17
* BISI 2124 Microbiology .....	4
ENGL 1213 English Composition II.....	3
NURS 2334 Maternal Child Nursing .....	4
NURS 2344 Maternal Child Nursing Pract ..	4
NURS 2071 Seminar in Nursing I .....	1
HPEA Activity Elective .....	1
<b>FOURTH SEMESTER</b> .....	18
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865...3	
NURS 2415 Nursing of Adults II .....	5
NURS 2425 Nursing of Adults II Practicum...5	
NURS 2072 Seminar in Nursing II .....	2
POLI 1113 American Government .....	3
* Required core courses must have been taken within the last 5 years with a grade of C or above. This can be waived if student has a degree or is an LPN.	
This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.	

Nursing is offered on all three NOC campuses: Tonkawa, Enid, and Stillwater. We have clinical sites at Ponca City, Stillwater, Enid and Blackwell. In the sophomore year there will be an additional clinical site at the Children's Hospital in Oklahoma City. The nursing students can participate in the Student Nurses Association, both local and national. The nursing program is accredited by National League for Nursing Accrediting Commission and Oklahoma Board of Nursing.

Students who desire to become candidates for the Associate degree in Nursing are required to make a formal application to the Division of Nursing for admission. This application must be submitted to the Division of Nursing on or before March 1. Formal approval by the Nursing Division is required before being admitted into actual nursing courses. GPA is heavily weighed since acceptance is highly competitive. Tuition for the Nursing program is the same as for all other students at Northern. A Nursing Skills lab fee is charged each semester. Upon completion of this degree a student is eligible to take the NCLEX-RN exam. After successful passage of this exam, the student is an RN prepared to pursue a career in nursing.

**Career Opportunities  
Registered Nurse (RN)**

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Photography and Digital Imaging

### PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION .....	22
COMMUNICATIONS	
ENGL 1113 English Composition I .....	3
ENGL 1213 English Composition II .....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
MATHEMATICS	
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION	
SPCH 1713 Intro to Oral Comm .....	3
TECHNICAL CORE REQUIREMENTS .....	21
JOUR 1133 Beginning Photography .....	3
JOUR 1223 Dig. Imaging I—Photoshop* .....	3
JOUR 2043 Light and Lighting .....	3
JOUR 2113 Dig. I Imaging II—Photoshop .....	3
JOUR 2133 Interm. Photograph .....	3
JOUR 2143 Advanced Photography .....	3
JOUR 2313 Dig. Imaging III—Photoshop .....	3
*Computer Concepts or passing the proficiency exam is a prerequisite.	
TECHNICAL SUPPORT COURSES .....	14
JOUR 1131 Beginning B&W Darkroom .....	1
JOUR 2023 Photojournalism .....	3
JOUR 2213 Photographic Studio Practice .....	3
JOUR 2400 Seminars .....	4
JOUR 2401 Action Photography	
JOUR 2441 Landscape Photography Trip	
JOUR 2451 Wedding Photography	
JOUR 2471 Studio Portraiture	
JOUR 2283 Industry Issues .....	3
RECOMMENDED PROGRAM ELECTIVES .....	3
ART 1103 Intro to Film/Video .....	3
ART 1433 Fundamentals I .....	3
BSAD 1103 Introduction to Business .....	3
JOUR 1213 Intro to Filmmaking .....	3
JOUR 2013 Principles of Advertising .....	3
JOUR 2101 Independent Photographic Darkroom .....	1
JOUR 2400 Seminars .....	2
JOUR 2463 Internship in Photography .....	3
JOUR 2493 Landscape and Fine Art Photography .....	3
TOTAL CREDIT HOURS .....	60
PHYS EDUCATION ACTIVITY COURSES .....	2
TOTAL CREDIT HOURS .....	62

### SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	15
ART1433 Fundamentals I .....	3
CS 1113 Computer Concepts .....	3
ENGL 1113 English Composition I .....	3
JOUR 1131 Beginning B&W Darkroom .....	1
JOUR 1133 Beginning Photography .....	3
JOUR 2400 Seminar .....	1
ORNT 1101 Freshman Orientation .....	1
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
JOUR 1223 Digital Imaging I—Photo shop .....	3
JOUR 2023 Photojournalism .....	3
JOUR 2400 Seminar .....	1
MATH 1493 Math Applications (or)	
MATH 1513 College Algebra .....	3
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
JOUR 2043 Light and Lighting .....	3
JOUR 2043L Light and Lighting Lab .....	0
JOUR 2113 Dig. Imaging II—Photoshop .....	3
JOUR 2133 Intermediate Photography .....	3
JOUR 2400 Seminar .....	1
SPCH 1713 Intro to Oral Communication .....	3
FOURTH SEMESTER .....	15
JOUR 2143 Advanced Photography .....	3
JOUR 2213 Photographic Studio Practice .....	3
JOUR 2283 Industry Issues .....	3
JOUR 2313 Dig. Imaging III—Photoshop .....	3
JOUR 2400 Seminar .....	1
HPEA Activity Elective .....	2

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Applied Science degree.

The Photography and Digital Imaging program is designed to prepare individuals for entry into the rapidly changing field of photography and digital imaging. The program is designed to afford a strong fundamental foundation upon which the individual can build while still making an immediate contribution to the employer or beginning an independent business.

A student should have some basic camera equipment and be prepared to purchase equipment as he/she progresses during the program.

Students are encouraged to become involved with the Images<sup>3</sup> Photography Club, the Fall Break Photo Trip seminar, and the Spring Break trip sponsored by the club.

Students may wish to take a summer session to lighten the course load. Students should plan to attend the Professional Photographers of Oklahoma Convention, usually in February; SWPPA in March; and the Professional Photographers of America, Inc., Convention in July-August. Students may join the PPO and PPA as student members and begin developing professional relationships and professional credentials. It is recommended that students take the PPA Certification examination which will begin in the summer following graduation.

#### Career Opportunities

- Commercial Photography
- Digital Imaging
- Photojournalism
- Public Relations
- Scientific Photography
- Technical Laboratory

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Printing Technology

## PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION .....	20
COMMUNICATIONS	
ENGL 1113 English Composition I .....	3
ENGL 1213 English Composition II .....	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government.....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS .....	30
GRAT 1113 Intro to Graphic Arts .....	3
GRAT 1143 Copy, Prep, Design and Layout .....	3
GRAT 1223 PrePress Technology .....	3
GRAT 2243 Offset Presswork I .....	3
GRAT 2253 Offset Presswork II .....	3
GRAT 2270 Printing Prod. Practicum I .....	6
GRAT 2280 Printing Prod. Practicum II .....	6
JOUR 1223 Digital Imaging I- Photoshop .....	3
Substitutions may be made with prior approval.	
RECOMMENDED PROGRAM ELECTIVES .....	10
JOUR 1013 Intro to Mass-Communications	3
JOUR 1113 Writing for Mass Media .....	3
JOUR 2113 Digital Imaging II- Photoshop .....	3
BMGT 2263 Principles of Management .....	3
Substitutions may be made with prior approval.	
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES .....	2
TOTAL CREDIT HOURS.....	62

## PROGRAM REQUIREMENTS

	Credit Hours
FIRST SEMESTER .....	16
CS 1113 Computer Concepts .....	3
ENGL 1113 English Composition I .....	3
GRAT 1113 Intro to Graphic Arts .....	3
GRAT 1143 Copy, Prep, Design and Layout	3
GRAT 2270 Printing Prod. Practicum I .....	3
ORNT 1101 Freshman Orientation .....	1
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
GRAT 1223 PrePress Technology .....	3
GRAT 2243 Offset Press Work I .....	3
GRAT 2270 Printing Prod. Practicum I.....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 Am. History Since 1865.....	3
HPEA Activity Elective.....	1
THIRD SEMESTER .....	16
GRAT 2253 Offset Press Work II .....	3
GRAT 2270 Printing Prod. Practicum II.....	3
HPEA Activity Elective.....	1
JOUR 1223 Digital Imaging I-Photoshop.....	3
POLI 1113 American Government .....	3
Recommended Program Elective.....	3
FOURTH SEMESTER .....	14
GRAT 2280 Printing Prod. Practicum II.....	3
General Education Elective .....	4
Recommended Program Electives.....	7

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.

The Associate in Applied Science degree in Printing Technology curriculum prepares students to enter in the printing industry as qualified technicians upon graduation.

## Career Opportunities

Bindery Technician  
 Film Strip-up Technician  
 Offset Press Operator  
 Platemaking Technician  
 PrePress Technician  
 Quality Control

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate Algebra
- ENGL 0123 Basic Composition
- READ 0123 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science