

**Associate in Arts Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Language Arts

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

**COMMUNICATIONS
MASS COMMUNICATION OPTION**

The Associate's degree in Mass Communications consist of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor in Science Degree in Mass Communications at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
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 American History since 1865	3
POLI 1113 American National Government	3
HUMANITIES	
HUMN Select from Humanities list	3
HUMN Select from Humanities list	3
MATHEMATICS	
MATH 1483 Contemporary College Math	3
MATH 1513 College Algebra	3
SCIENCE	
BIOL One biological science with lab	4
PHSCI One Physical Science with lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	19
JOUR 1003 Introduction Mass Communications	3
JOUR 1113 Writing for Mass Media	3
JOUR 1123 News Reporting and Writing	3
SPCH 1653 Radio Broadcasting	3
SPCH 2010 Speech Activity Participation	3
JOUR 2013 Principles of Advertising	3
JOUR 2240 Publications Practicum	3
Recommended Electives	6
JOUR 1133 Basic Photography	
JOUR 2023 Photojournalism	
SPCH 2123 Voice and Dictation	
JOUR 2123 Feature Writing	
SPCH 2123 Television Production	
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY	2
TOTAL CREDIT HOURS	62

MASS COMMUNICATIONS MAJOR/MINOR

Transfer students who have completed an Associate in Arts degree in Mass Communications from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	19
MCOM 2013 Web Programming I	3
MCOM 2113 News Reporting	3
MCOM 2123 Mass Communications	3
MCOM 2341 Print Media Practicum	1
MCOM 2653 Introduction to Broadcasting	3
MCOM 3043 Principles of Marketing	3
MCOM 3033 Principles of Advertising	3
MCOM 3103 News Editing	3
MCOM 3213 Oral Comm for Bus. Professionals	3
MCOM 3222 Feature Writing	2
MCOM 3402 Intro to Radio Production	2
MCOM 3463 Intro to Public Relations	3
MCOM 3502 Intro to TV Production	2
MCOM 3623 Basic Photography	3
MCOM 3801 Radio Practicum	1
MCOM 3823 Broadcast Writing	3
MCOM 3901 Television Practicum	1
MCOM 4102 Desktop Publishing	2
MCOM 4202 Broadcast Announcing	2
MCOM 4212 Mass Comm Law/Ethics	2
MCOM 4302 Broadcast Promotions/Sales	2
MCOM 4442 Mass Comm Internship	2
MCOM 4461 Mass Comm Senior Seminar	1
Prescribed Electives	
(19 hours Selected from course; at least 12 of these hours must be upper division)	
MCOM 2222, MCOM 2341 (up to 4 times), MCOM 3242, MCOM 3302, MCOM 3521 (up to 2 times), MCOM 3801 (up to 4 times), MCOM 3812, MCOM 3801 (up to 4 times), MCOM 4123, MCOM 4113, MCOM 4133, MCOM 4143, MCOM 4312, MCOM 4402, MCOM 4422, MCOM 4502, MCOM 4623, SCOM 2763, SCOM 2313, SCOM 3113, SCOM 3613, GBUS 3013, MGMT 3063, MRKT 3413, MRKT 4043, MIS 4413, ENGL 3513, ENGL 4113, PSYC 3163.	
Six hours of the following credits will count in the above program requirements if taken at NOC as recommended electives.	
MCOM 3623 Basic Photography*	
MCOM 3222 Feature Writing*	
MCOM 3502 Television Production*	
MCOM 3623 Photojournalism**	
SCOM 2763 Voice & Phonetics**	
The following required course from NOC will count as a prescribed elective for Mass Communication Major/Minor.	
MCOM Prescribed Elective	
The following course needs to be taken to meet the prerequisite requirement for MCOM 3213. It may be taken at NOC or NWOSU.	
SCOM 1113 Introduction to Speech Communication	

CREDIT SUMMARY

TECHNICAL MANAGEMENT

GENERAL EDUCATION	
NOC	37
PROGRAM REQUIREMENTS	
NOC	19
NOC Recommended Electives	6
NWOSU	50
SCOM REQUIREMENT NOC or NWOSU	3
ELECTIVES	
NWOSU	10
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Arts Degree
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School of Arts and Sciences

**COMMUNICATIONS
MASS COMMUNICATION OPTION**

The Associate's degree in Mass Communications consist of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor in Science Degree in Mass Communications at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
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 American History since 1865	3
POLI 1113 American National Government	3
HUMANITIES	
HUMN Select from Humanities list	3
HUMN Select from Humanities list	3
MATHEMATICS	
MATH 1483 Contemporary College Math	3
MATH 1513 College Algebra	3
SCIENCE	
BIOL One biological science with lab	4
PHSCI One Physical Science with lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	19
JOUR 1003 Introduction Mass Communications	3
JOUR 1113 Writing for Mass Media	3
JOUR 1123 News Reporting and Writing	3
SPCH 1653 Radio Broadcasting	3
SPCH 2010 Speech Activity Participation	3
JOUR 2013 Principles of Advertising	3
JOUR 2240 Publications Practicum	3
Recommended Electives	6
JOUR 1133 Basic Photography	
JOUR 2023 Photojournalism	
SPCH 2123 Voice and Dictation	
JOUR 2123 Feature Writing	
SPCH 2123 Television Production	
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY	2
TOTAL CREDIT HOURS	62

MASS COMMUNICATIONS MAJOR

Transfer students who have completed an Associate in Arts degree in Mass Communications from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	19
MCOM 2013 Web Programming I	3
MCOM 2113 News Reporting	3
MCOM 2123 Mass Communications	3
MCOM 2341 Print Media Practicum	1
MCOM 2653 Introduction to Broadcasting	3
MCOM 3043 Principles of Marketing	3
MCOM 3033 Principles of Advertising	3
MCOM 3103 News Editing	3
MCOM 3213 Oral Comm for Bus. Professionals	3
MCOM 3222 Feature Writing	2
MCOM 3402 Intro to Radio Production	2
MCOM 3463 Intro to Public Relations	3
MCOM 3502 Intro to TV Production	2
MCOM 3623 Basic Photography	3
MCOM 3801 Radio Practicum	1
MCOM 3823 Broadcast Writing	3
MCOM 3901 Television Practicum	1
MCOM 4102 Desktop Publishing	2
MCOM 4202 Broadcast Announcing	2
MCOM 4212 Mass Comm Law/Ethics	2
MCOM 4302 Broadcast Promotions/Sales	2
MCOM 4442 Mass Comm Internship	2
MCOM 4461 Mass Comm Senior Seminar	1

Six hours of the following credits will count in the above program requirements if taken at NOC as recommended electives.

- MCOM 3623 Basic Photography*
- MCOM 3222 Feature Writing*
- MCOM 3502 Television Production*

The following course needs to be taken to meet the prerequisite requirement for MCOM 3213. It may be taken at NOC or NWOSU.

- SCOM 1113 Introduction to Speech Communication

CREDIT SUMMARY

TECHNICAL MANAGEMENT

GENERAL EDUCATION	
NOC	37
PROGRAM REQUIREMENTS	
NOC	19
NOC Recommended Electives	6
NWOSU	28
SCOM REQUIREMENT	
NOC or NWOSU	3
MINOR REQUIREMENTS*	
NWOSU**	21-27
ELECTIVES*	
NWOSU	10
*must equal at least 32 hours	
**at least 12 of these hours must be upper division	
TOTAL CREDIT HOURS	124

**Associate in Arts Degree
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Division of Social Science

**Bachelor in Science Degree
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School of Arts and Sciences

**EDUCATION
ELEMENTARY OPTION**

This Associate in Arts degree program in Elementary Education consists of 67 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science Degree in Elementary Education at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	33
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 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List*	6
MATHEMATICS	
MATH 1513 College Algebra (or)	
MATH 1483 Contemporary College Math	3
SCIENCE	
BIOL One Biological Science with Lab	4
PH SCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
PROGRAM REQUIREMENTS	32-35
SPCH 1713 Intro to Oral Communication	3
ENGL 2013 Traditional Grammar for Educators	3
PSYC 1113 General Psychology	3
GEOG 2253 World Regional Geography	3
MATH 1233 Logic and Problem Solving	3
MATH 2013 Mathematics Concepts for Educators	3
MATH 2023 Elementary Statistics	3
PHYS 2104 Concepts in Physics (or)	
CHEM 1314 General Chemistry	4
HPER 1223 Health and Wellness	3
First Aid	1-2
LANG Foreign Language	3-5
* Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
TOTAL CREDIT HOURS	65-68
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	67-70

ELMENTARY EDUCATION PROGRAM

Transfer students who have completed an Associate in Arts degree in Elementary Education from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours	
GENERAL EDUCATION REQUIREMENTS	65	
ORIENTATION		
UNIV 1011 Ranger Connection		
COMMUNICATION SKILLS		12
ENGL 1113 Gram & Comp I		
ENGL 1213 Gram & Comp II		
SPCH 1113 Fund of Speech		
ENGL 4173 English Usage		
MATHEMATICS		12
MATH 1513 College Algebra		
MATH 2233 Struct Con I Arith		
MATH 3203 Struct Con II Math		
MATH 3223 Geometry for Elementary Teachers		
SOCIAL STUDIES		12
HIST 1483 US History to 1877 (or)		
HIST 1493 US History since 1877		
POLI 1113 American Government		
GEOG 1113 Geography		
HIST 3123 Oklahoma History and Government		
SCIENCE		12
PHYS 3114 Earth and Space Science		
BIOL 1114 General Biology		
PHSC 1114 General Physical Science (or)		
CHEM 1105 General Chemistry (or)		
PHYS 1114 General Physics I		
ARTS AND HUMANITIES		5
Foreign Language or SCOM 1014 Sign Language		
Select ONE of these:		
HUM 2633 Philosophy in Life		
HUM 2432 Art in Life		
ART 1103 Fundamentals of Art		
HUM 2113 General Humanities I		
MUS 3153 Music History I		
ENGL 2413 Introduction to Literature		
HEALTH AND PHYSICAL EDUCATION		4
HPE 2211 Injury and First Aid		
HPE 2303 Wellness Concepts		
BEHAVIORAL SCIENCE		3
PSY 1113 General Psychology		
CONTEMPORARY WORLD CULTURE		4
PSY 1213 Marriage and Family		
SOC 1113 Introduction to Sociology		
HIS 1223 Modern Western Civilization		
ENGL 3403 World Literature		
ENGL 2883 Literature Stan Whitman		

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School of Arts and Sciences

ENGLISH OPTION

This Associate in Arts degree program in English consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Arts Degree in English at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION -----	37
ENGL 1113 English Composition I -----	3
ENGL 1213 English Composition II -----	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865 -----	3
POLI 1113 American Government -----	3
HUMN Select from the Humanities List -----	3
HUMN Select from the humanities List -----	3
MATHEMATICS	
MATH 1513 College Algebra -----	3
SCIENCE	
BIOL One Biological Science with Lab -----	4
PHSCI One Physical Science with Lab -----	4
CS 1113 Computer Concepts -----	3
ORNT 1101 Freshman Orientation -----	1
GENERAL EDUCATION ELECTIVES -----	3
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS -----	15
LIT 2413 Introduction to Literature -----	3
LIT 2543 British Literature to 1800 -----	3
LIT 2653 British Literature since 1800 -----	3
LIT 2773 American Literature to 1865 -----	3
LIT 2883 American Literature since 1865 -----	3
RECOMMENDED ELECTIVES -----	8-12
SPCH 1713 Intro. to Oral Communication -----	3
JOUR 2240 Publications Practicum -----	1-2
ENGL 2450 Writing Workshops -----	1-4
LANG Foreign Language -----	5
 * Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
TOTAL CREDIT HOURS -----	60
PHYSICAL EDUCATION ACTIVITY COURSES -----	2
TOTAL CREDIT HOURS -----	62

GENERAL EDUCATION

Transfer students who have completed an Associate in Arts degree in English degree from Northern Oklahoma College will have met NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS -----	27
ENGL 1113 English Composition I -----	3
ENGL 1213 English Composition II -----	3
LIT 2413 Introduction to Literature -----	3
LIT 2543 English Literature to 1800 -----	3
LIT 2653 English Literature since 1800 -----	3
LIT 2773 American Literature to Whitman -----	3
LIT 2883 American Literature since Whitman -----	3
ENGL 3103 Shakespeare I (or)	
ENGL 3103 Shakespeare II -----	3
ENGL 3433 American Novel -----	3
ENGL Elective American Literature -----	2
ENGL Elective English -----	10
ENGL Elective Advanced English -----	14
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC -----	37
PROGRAM REQUIREMENTS	
NOC English -----	15
NWOSU English -----	40
ELECTIVES	
NWOSU For Minor -----	20
NOC -----	8-12
TOTAL CREDIT HOURS -----	124

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School of Professional Studies

SOCIAL SCIENCE

The Associate's degree in Social Science consists of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Psychology at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1483 Contemporary College Math	3
MATH 1513 College Algebra	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	3
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
* Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
PROGRAM REQUIREMENTS	12
PSYC 1113 General Psychology	3
SOCI 1113 Principles of Sociology	3
HIST 1483 American History to 1865	3
HIST 1493 American History since 1865	3
GEOG 2253 World Regional Geography	3
<i>Substitutions may be made with prior approval.</i>	
RECOMMENDED ELECTIVES	12-13
ECON 2113 Macroeconomic Principles	3
ECON 2123 Macroeconomic Principles	3
GEOG 2243 Fundamentals of Geography	3
HIST 2323 Oklahoma History	3
MATH 2023 Elementary Statistics	3
POLI 2133 State and Local Government	3
PSYC 2113 Human Sexuality	3
PSYC 2233 Social Psychology	3
SOCI 2223 Social Problems	3
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY COURSES	2

TOTAL CREDIT HOURS

PSYCHOLOGY MAJOR

Transfer students who have completed an Associate in Arts degree in Social Science from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PSYCHOLOGY MAJOR REQUIREMENTS	40
PSYC 1113 General Psychology	3
PSYC 3103 History of Psychology	3
PSYC 3123 Human Life-span Development	3
PSYC 4213 Statistics	3
PSYC 4222 Research Methodology	2
PSYC 4232 Experimental Psychology	2
Choice of one course from	9-12
group I, II, III, and IV.	
Group I	
PSYC 2113 Psychology of Adjustment	
PSYC 4413 Advanced General Psychology	
PSYC 4460 Psychology Laboratory	
PSYC 4470 Independent Study	
PSYC 4480 Seminar in Psychology	
PSYC 4490 Readings	
Group II	
PSYC 3153 Theories for Psychological Testing	
PSYC 3163 Motivation	
PSYC 3243 Biopsychology	
PSYC 4163 Personality	
Group III	
PSYC 1213 Marriage and Family	
PSYC 3143 Social Psychology	
PSYC 4153 Psychology of Learning	
PSYC 4253 Cognitive Psychology	
Group IV	
PSYC 3213 Industrial Psychology	
PSYC 3313 Consumer Behavior	
PSYC 3412 Child Guidance	
PSYC 3512 Adolescent Guidance	
PSYC 4103 Psychology of Exceptionalities	
PSYC 4113 Abnormal Psychology	
PSYC 4123 Therapy	
Elective Advanced Psychology	12-15
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	37
PROGRAM REQUIREMENTS	
NOC	12
NWOSU	40
ELECTIVES	
NWOSU For Minor	20
NOC Electives	12-13

TOTAL CREDIT HOURS

Associate to Baccalaureate Degree

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Professional Studies

AGRICULTURE

This Associate in Science degree program in Agriculture consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Agriculture Business or Agriculture Ecology at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra*	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
* Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
PROGRAM REQUIREMENTS	16-19
AGRI 1114 Agricultural Economics	4
AGRI 1124 Animal Sciences	4
AGRI 1214 Plant Sciences	4
AGRI 2124 Soil Sciences	4
AGRI 2123 Livestock Feeding	3
AGRI 2222 Live Animal Evaluation	2
RECOMMENDED ELECTIVES	7-8
BISI 1314 General Botany	4
BISI 1414 General Zoology	4
CHEM 1314 General Chemistry	4
SPCH 1713 Introduction to Oral Communication -	3
MATH 2023 Elementary Statistics	3
ACCT 2103 Accounting I - Financial	3
ACCT 2203 Accounting II - Managerial	3
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	62

AGRI-BUSINESS (MAJOR/MINOR)

Transfer students who have completed an Associate in Science degree from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
AGRI-BUSINESS MAJOR/MINOR REQUIREMENTS	40
CMSC 1103 Microcomputer Applications	3
ECON 2123 Principles of Microeconomics (or)	
AGRI 1113 Agricultural Economics	3
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3013 Business Communication	3
GBUS 3903 Business Law I	3
MRKT 4043 Salesmanship	3
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
AGRI 2123 Livestock Feeding	3
AGRI 3214 Soil Science	4
AGRI 4133 Crop Production & Cultural Systems -	3
AGRI 4123 Agricultural Marketing	3
AGRI 4233 Farm Management	3
DIRECTED ELECTIVES	2-3
AGRI 4613 Beef Cattle Science (or)	
AGRI 4643 Swine Science (or)	
AGRI 4542 Sheep Science (or)	
AGRI 3422 Horse Production	
Agriculture Electives	12
Bus, Acct, Econ, or Comp Sci Electives.	6
TOTAL CREDIT HOURS	65-66

Associate to Baccalaureate Degree

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Division of Science, Math, and Engineering

**Bachelor in Science Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**

School of Professional Studies

AGRICULTURE

This Associate in Science degree program in Agriculture consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Agriculture Business or Agriculture Ecology at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra*	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	

* Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.

PROGRAM REQUIREMENTS	16-19
AGRI 1114 Agricultural Economics	4
AGRI 1124 Animal Sciences	4
AGRI 1214 Plant Sciences	4
AGRI 2124 Soil Sciences	4
AGRI 2123 Livestock Feeding	3
AGRI 2222 Live Animal Evaluation	2
RECOMMENDED ELECTIVES	7-8
BISI 1314 General Botany	4
BISI 1414 General Zoology	4
CHEM 1314 General Chemistry	4
SPCH 1713 Introduction to Oral Communication -	3
MATH 2023 Elementary Statistics	3
ACCT 2103 Accounting I - Financial	3
ACCT 2203 Accounting II - Managerial	3

TOTAL CREDIT HOURS

PHYSICAL EDUCATION ACTIVITY COURSES

TOTAL CREDIT HOURS

AGRICULTURE ECOLOGY (MAJOR/MINOR)

Transfer students who have completed an Associate in Science degree from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
AGRI-BUSINESS MAJOR/MINOR REQUIREMENTS	40
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
AGRI 3173 Crop Adaptation & Distribution	3
AGRI 3214 Soil Science	4
AGRI 3443 Animal Reproduction	3
AGRI 4133 Crop Production & Cultural Systems --	3
AGRI 4143 Agri-Chemicals and Waste Mgmt	3
BIOL 1125 General Botany	5
BIOL 1225 General Zoology	5
BIOL 3174 Plant Physiology	4
BIOL 3374 Grassland Ecosystems	4
BIOL 4153 Wildlife Conservation	3
CHEM 1105 General Chemistry	5
MATH 1313 Statistics	3
Agriculture Electives	12

TOTAL CREDIT HOURS

Associate to Baccalaureate Degree

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

AGRICULTURE

This Associate in Science degree program in Agriculture consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Agriculture Business or Agriculture Ecology at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra*	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
* Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
PROGRAM REQUIREMENTS	16-19
AGRI 1114 Agricultural Economics	4
AGRI 1124 Animal Sciences	4
AGRI 1214 Plant Sciences	4
AGRI 2124 Soil Sciences	4
AGRI 2123 Livestock Feeding	3
AGRI 2222 Live Animal Evaluation	2
RECOMMENDED ELECTIVES	7-8
BISI 1314 General Botany	4
BISI 1414 General Zoology	4
CHEM 1314 General Chemistry	4
SPCH 1713 Introduction to Oral Communication -	3
MATH 2023 Elementary Statistics	3
ACCT 2103 Accounting I - Financial	3
ACCT 2203 Accounting II - Managerial	3
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	62

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Professional Studies

AGRI-BUSINESS MAJOR WITH A MINOR

Transfer students who have completed an Associate in Science degree from Northern Oklahoma College will have met the NWSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
AGRI-BUSINESS MAJOR REQUIREMENTS	48
CMSC 1103 Microcomputer Applications	3
ECON 2123 Principles of Microeconomics (or)	
AGRI 1113 Agricultural Economics	3
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3013 Business Communication	3
GBUS 3903 Business Law I	3
MRKT 4043 Salesmanship	3
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
AGRI 2123 Livestock Feeding	3
AGRI 3214 Soil Science	4
AGRI 4123 Agricultural Marketing	3
AGRI 4233 Farm Management	3
Advanced Agriculture Electives	6
AGRICULTURE MINOR REQUIREMENTS	24
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
AGRI 2123 Livestock Feeding	3
AGRI 3214 Soil Science	4
AGRICULTURE ECONOMICS MINOR REQUIREMENTS	23
AGRI 1113 Agricultural Economics	3
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
ECON 3103 Economics of Agricultural Policy (or)	
AGRI 3103 Agricultural Policy	3
AGRI 4123 Agricultural Marketing	3
AGRI 4153 Agricultural Economics of Development --	4
AGRI 4233 Farm Management	3
ANIMAL SCIENCE MINOR REQUIREMENTS	23
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
AGRI 2123 Livestock Feeding	3
AGRI 3413 Animal Genetics	3
AGRI 3443 Animal Reproduction	3
Advanced Agriculture Electives	6
AGRI 3033 Forage Crops & Pastures	
AGRI 3422 Horse Production	
AGRI 3543 Principles of Animal Nutrition	
AGRI 4542 Sheep Science	
AGRI 4613 Beef Cattle Science	
AGRI 4643 Swine Science	
FIELD CROP CONSULTING MINOR REQUIREMENTS	25
AGRI 1124 Introduction to Animal Science	4
AGRI 1214 Introduction to Plant Science	4
AGRI 3033 Forage Crops & Pastures	3
AGRI 3214 Soil Science	4
AGRI 4133 Crop Prod. & Cultural Systems	3
AGRI 4143 Agri-Chemicals & Waste Mgmt	4
BIOL 3174 Plant Physiology	4

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**
Interdivisional

**Bachelor in Arts Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

GENERAL STUDIES

This Associate in Science degree program in consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Agriculture Business or Agriculture Ecology at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra*	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
* Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
AREAS OF EMPHASIS	23
Program may be worked out with the adviser to suite the individual student's needs. Courses are to be completed from the following areas:	
Science-Math courses	
Social Sciences courses	
Liberal-Arts courses	
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	62

GENERAL STUDIES

Transfer students who have completed an Associate in Science degree from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

GENERAL STUDIES REQUIREMENTS **70**
Students must complete a minimum of 12 hours in four of five concentration areas listed below (48 hours). In addition, students must complete a major concentration by earning 22 additional hours in one of the four selected concentration areas, for a total of 34 hours in one concentration. Total hours may include course work taken in areas of emphasis at NOC. At least 40 hours of the 70 hours required must be of senior college (3000-4000) level.

Concentration Areas:

- I. Arts and Humanities
 - English
 - History
 - Music
 - Spanish
 - Speech and Theatre
- II. Natural Science
 - Biology
 - Chemistry
 - Computer Science
 - Mathematics
 - Physical Science
- III. Business
 - Accounting
 - Agriculture
 - Business Administration
 - E-Commerce
 - Economics
- IV. Behavioral Science
 - Political Science
 - Psychology
 - Sociology
- V. Applied Behavioral Science
 - Criminal Justice
 - Education
 - HPER
 - Mass Communication
 - Social Work

**CREDIT SUMMARY
TECHNICAL MANAGEMENT**

GENERAL EDUCATION	
NOC	37
PROGRAM REQUIREMENTS	
NOC	23
NWOSU (In four of five selected categories)	64
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Business

**Bachelor in Science Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**
School of Professional Studies

BUSINESS ADMINISTRATION

This Associate in Science degree program in Business Administration consists of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science Degree in Business Administration at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from the Humanities List	3
HUMN Select from the humanities List	3
MATHEMATICS	
MATH 1513 College Algebra*	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	3
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	21
CS 2123 Business Technologies/Applic.	3
BSAD 1103 Introduction to Business	3
MATH 2023 Elementary Statistics	3
ACCT 2103 Accounting I	3
ECON 2113 Macroeconomic Principles	3
ECON 2123 Microeconomic Principles	3
ACCT 2203 Accounting II - Managerial	3
RECOMMENDED ELECTIVES	3
BGMT 2023 Internet Issues (or)	
MATH 2240 Elementary Calculus (or)	
BGMT 2450 Business Internship	
 * Student scoring 25 and above on the math score on the ACT may take Elementary Calculus or Elementary Statistics.	
TOTAL CREDIT HOURS	61
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	63

BUSINESS ADMINISTRATION

Transfer students who have completed an Associate in Science degree in Business Administration degree from Northern Oklahoma College will have met NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	66
CMSC 1103 Microcomputer Applications	3
ECON 2113 Principles of Macroeconomics	3
ECON 2123 Principles of Microeconomics	3
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
ACCT 3103 Intermediate Accounting (or)	
ACCT 3133 Income Tax Accounting	3
ECON 2163 Introduction to Statistics (or)	
MATH 1313 Statistics (or)	
PSYC 4213 Statistics	3
GBUS 3013 Business Communications	3
MRKT 3043 Principles of Marketing	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
ECON 3213 International Economics (or)	
INTB 3513 International Business	3
GBUS 3903 Business Law I	3
GBUS 3913 Business Law II	3
FIN 4063 Business Finance	3
MGMT 4333 Human Resource Management	3
MGMT 4353 Prod/Oper Management	3
MIS 4413 Management Information Systems	3
MGMT 4433 Business Policy	3
Advanced Electives: Select from	
Business	
Accounting	
Economics	
E-Commerce	
Computer Science	
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	37
PROGRAM REQUIREMENTS	
NOC	18
NWOSU	48
ELECTIVES	
NWOSU	12-13
NOC	8-9
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

COMPUTER SCIENCE, PRE-PROFESSIONAL

The Associate's in Science degree program consists of 63-64 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Computer Science at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	21-23
CS 1013 Visual Basic Programming	3
CS 1113 Computer Concepts	3
ACCT 2103 Accounting I - Financial	3
ECON 2123 Microeconomic Principles	3
MATH 2103 Elementary Calculus (or)	
MATH 2145 Calculus I	3
CS Procedural Programming Language ---	3
(CS 2113 Pascal, 2223 COBOL, or 2313 C++)	
CS Programming Language	
(CS 1323 Visual C++, CS 1333 Advanced Visual C++, CS 2103 Advanced Visual Basic, or CS 2303 Java)	
RECOMMENDED ELECTIVES	3
CS Programming Languages	3
MATH 2023 Elementary Statistics	3
ECON 2113 Macroeconomic Principles	3
MATH 2155 Calculus II	3
ACCT 2203 Accounting II - Managerial	3
TOTAL CREDIT HOURS	61-63
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	63-65

COMPUTER SCIENCE

Transfer students who have completed an Associate in Science degree in Computer Science from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	40
CMSC 2103 Computer Programming I	3
CMSC 3203 Computer Programming II	3
CMSC 3003 Database Management Systems	3
CMSC 4023 Object Oriented Programming	3
CMSC 4603 Operating Systems	2
CMSC 4703 Data Structures	2
ECOM 2103 Web Programming I	3
MATH 2215 Calculus I	5
MATH 3053 Discrete Math	3
CMSC *Electives in Computer Science	
*Majors must have at minimum total of 20 hours of upper level Computer Science, Minors must have a minimum of 9 hours of upper-level Computer Science.	
CREDIT SUMMARY	
GENERAL EDUCATION	
GENERAL EDUCATION	37
PROGRAM REQUIREMENTS	
PROGRAM REQUIREMENTS	14
NWOSU (CMSC requirements)	27
ELECTIVES	
ELECTIVES	32-34
NOC Electives	12-14
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

COMPUTER SCIENCE, PRE-PROFESSIONAL

The Associate's in Science degree program consists of 63-64 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Computer Science at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	21-23
CS 1013 Visual Basic Programming	3
CS 1113 Computer Concepts	3
ACCT 2103 Accounting I - Financial	3
ECON 2123 Microeconomic Principles	3
MATH 2103 Elementary Calculus (or)	
MATH 2145 Calculus I	3
CS Procedural Programming Language --- 3	3
(CS 2113 Pascal, 2223 COBOL, or 2313 C++)	
CS Programming Language	3
(CS 1323 Visual C++, CS 1333 Advanced Visual C++, CS 2103 Advanced Visual Basic, or CS 2303 Java)	
RECOMMENDED ELECTIVES	3
CS Programming Languages	3
MATH 2023 Elementary Statistics	3
ECON 2113 Macroeconomic Principles	3
MATH 2155 Calculus II	3
ACCT 2203 Accounting II - Managerial	3
TOTAL CREDIT HOURS	61-63
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	63-65

**COMPUTER SCIENCE
BUSINESS INFORMATION SYSTEM OPTION**

Transfer students who have completed an Associate in Science degree in Computer Science from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	42
CMSC 1103 Microcomputer Applications	3
CMSC 2023 Introduction to COBOL	3
CMSC 2033 Visual Basic Programming	3
CMSC 2103 Computer Programming I	3
CMSC 3203 Computer Programming II	3
CMSC 3003 Database Management Systems	3
CMSC 4013 System Analysis & Design	3
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
ECOM 2103 Web Programming I	3
ACCT 3103 Intermediate Accounting	3
MIS 4413 Management Information Systems --- 3	3
CMSC *Upper-level Electives in Computer --- 6	6
Science, Accounting, or E-commerce	
CREDIT SUMMARY	
GENERAL EDUCATION	
GENERAL EDUCATION	37
NOC	37
PROGRAM REQUIREMENTS	
NOC	15
NWOSU (CMSC requirements)	24
ELECTIVES	
NWOSU	35-37
NOC Electives	11-13
TOTAL CREDIT HOURS	124

**Associate in Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Applied Arts and Sciences Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

MATHEMATICS

The Associate's in Science degree program in Mathematics consists of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Science degree in Mathematics at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION -----	37
ENGL 1113 English Composition I -----	3
ENGL 1213 English Composition II -----	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865 -----	3
POLI 1113 American Government -----	3
HUMN Select from Humanities List -----	3
HUMN Select from Humanities List -----	3
MATHEMATICS	
MATH 1513 College Algebra -----	3
SCIENCE	
BIOL One Biological Science with Lab -----	4
PHSCI One Physical Science with Lab -----	4
CS 1113 Computer Concepts -----	3
ORNT 1101 Freshman Orientation -----	1
GENERAL EDUCATION ELECTIVES -----	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS -----	13
MATH 2145 Calculus I -----	5
MATH 2155 Calculus II -----	5
MATH 2613 Differential Equations -----	3
RECOMMENDED ELECTIVES -----	10
Physics, Statistics, or Computer Science	
TOTAL CREDIT HOURS -----	60
PHYSICAL EDUCATION ACTIVITY COURSES -----	2
TOTAL CREDIT HOURS -----	62

MATHEMATICS

Transfer students who have completed an Associate in Science degree in Mathematics from Northern Oklahoma College will have met the NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS -----	40
MATH 1513 College Algebra -----	3
MATH 1613 College Trigonometry -----	3
MATH 2215 Analytical Geometry & Calculus I -----	5
MATH 2315 Analytical Geometry & Calculus II -----	5
MATH Upper-level Electives at NWOSU in Mathematics: must include at least 6 hours of 4000-level for Majors.	
CMSC *Math Majors at NWOSU must have a minimum of 6 hours of Computer Science.	

**CREDIT SUMMARY
GENERAL EDUCATION**

GENERAL EDUCATION	
NOC (Includes Algebra & Trigonometry) -----	37
PROGRAM REQUIREMENTS	
NOC (Includes Calculus I & II) -----	10
NWOSU (Math Electives) -----	25
ELECTIVES	
NWOSU (Minor required & Electives) -----	35-37
NOC Electives -----	15-17
TOTAL CREDIT HOURS -----	124

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Nursing

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Professional Studies

NURSING, PRE-PROFESSIONAL

NURSING MAJOR (GENERIC TRACK)

The Associate's in Science degree is designed to directly articulate to the Bachelor of Science in Nursing degree at Northwestern Oklahoma State University. It is imperative that each student work closely with their adviser to ensure appropriate scheduling and completion of the required sequential course work for the degree program.

Transfer students who have completed an Associate in Science degree from Northern Oklahoma College and have followed the recommended classes by northwestern will need to complete the following NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra	3
MATH 2023 Elementary Statistics	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	14
PSYC 1113 General Psychology	3
SOCI 1113 Principles of Sociology	3
BISI 2104 Human Anatomy	4
BISI 2124 Microbiology	4
RECOMMENDED ELECTIVES	6
HPET 1113 Nutrition	3
PHIL 2213 Ethics	3
LIT 2413 Introduction to Literature	3
TOTAL CREDIT HOURS	61-63
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	63-65

PROGRAM REQUIREMENTS

	Credit Hours
BIOL 4503 Pathophysiology	3
BIOL 3502 Medical Terminology	2
PSYC 3123 Human Life-Span Development	3
PROGRAM REQUIREMENTS	60
NURS 3007 Introduction to Nursing Concepts	7
NURS 3038 Nursing Concepts of Adult Health	8
NURS 3222 Nursing Concepts of Mental Health I--	2
NURS 3225 Nursing Concepts of Mental Health II-	5
NURS 3103 Pharmacology & Nursing Practice	3
NURS 3144 Nurs Concepts of Family Care (Peds) --	4
NURS 3154 Nursing Concepts of Family Care (OB)	4
NURS 3334 Nursing Practicum	4
NURS 4003 Nursing Research	3
NURS 4204 Community Centered Nursing	4
NURS 4216 Nursing Synthesis	6
NURS 4317 Complex Care Across the Life Span ---	7
NURS 4333 Professional Issues in Nursing	3

**CREDIT SUMMARY
GENERAL EDUCATION**

GENERAL EDUCATION	
NOC	37
PROGRAM REQUIREMENTS	
NOC	14
NWOSU	68
ELECTIVES	
NOC (recommended electives)	6
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Nursing

NURSING, REGISTERED NURSE (RN)

The Associate's in Applied Science degree is designed to directly articulate to the Bachelor in Science in Nursing degree at Northwestern Oklahoma State University. It is imperative that each student work closely with their adviser to ensure appropriate scheduling and completion of the required sequential course work for the degree program.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	13
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
ORNT 1101 Freshman Orientation	1
REQUIRED CORE COURSES	18
PSYC 1113 General Psychology	3
SOCI 1113 Principles of Sociology	3
BISI 1114 General Biology (or)	4
CHEM 1314 General Chemistry	4
BISI 2124 Microbiology	4
BISI 2104 Human Anatomy (or)	4
BISI 2204 Human Physiology (or)	4
BISI 2214 Human Anatomy and Physiology	4
PROGRAM REQUIREMENTS	37
NURS 1114 Fundamentals of Nursing	4
NURS 1124 Fundamentals Practicum	4
NURS 1234 Nursing of Adults I	4
NURS 1244 Nursing of Adults I Practicum	4
NURS 2071 Seminar in Nursing I	1
NURS 2072 Seminar in Nursing II	2
NURS 2312 Nursing of Child Bearing Family	2
NURS 3334 Child Bearing Family Practicum	2
NURS 2322 Nursing of Children	2
NURS 2342 Nursing of Children Practicum	2
NURS 2415 Nursing of Adults II	5
NURS 2415 Nursing of Adults II Practicum	5
TOTAL CREDIT HOURS	68
PHYSICAL EDUCATION ACTIVITY COURSES	2
TOTAL CREDIT HOURS	70

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Professional Studies

NURSING MAJOR (AND-BSN)

Transfer students who have completed an Associate in Science degree from Northern Oklahoma College and have followed the recommended classes by northwestern will need to complete the following NWOSU General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
BIOL 4503 Pathophysiology	3
CMSC Computer Science Course	3
MATH 1313 Statistics (or)	
PSYC 4213 Statistics	3
MATH 1513 College Algebra (or)	
MATH 1403 Contemporary Mathematics	3
BIOL 3502 Medical Terminology	2
PSYC 3123 Human Life-span Development	3
BIOL 3194 Human Physiology	4
PROGRAM REQUIREMENTS	60
NURS 3007 Introduction to Nursing Concepts	7
NURS 3038 Nursing Concepts of Adult Health	8
NURS 3222 Nursing Concepts of Mental Health I--	2
NURS 3225 Nursing Concepts of Mental Health II-	5
NURS 3103 Pharmacology & Nursing Practice	3
NURS 3144 Nurs Concepts of Family Care (Peds) --	4
NURS 3154 Nursing Concepts of Family Care (OB)	4
NURS 3334 Nursing Practicum	4
NURS 3203 PN/RN Progression	3
NURS 4003 Nursing Research	3
NURS 4204 Community Centered Nursing	4
NURS 4216 Nursing Synthesis	6
NURS 4317 Complex Care Across the Life Span ---	7
NURS 4333 Professional Issues in Nursing	3
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	13
PROGRAM REQUIREMENTS	
NOC	37
NOC (required core courses)	18
NWOSU	38
OBN/NWOSU	
Articulation Agreement Credit Awarded	46
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Applied Arts and Sciences Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

**AVIATION MAINTENANCE TECHNICIAN
AIRFRAME AND POWERPLANT TECHNOLOGY**

The Associate's in Applied Science degree program in Aviation Maintenance Technician: Airframe and Power Plant Technology option Consist of 64 Hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	37
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
HUMN Select from Humanities List	3
HUMN Select from Humanities List	3
MATHEMATICS	
MATH 1513 College Algebra*	3
SCIENCE	
BIOL One Biological Science with Lab	4
PHSCI One Physical Science with Lab	4
CS 1113 Computer Concepts	3
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
TECHNICAL/OCCUPATIONAL SPECIALTY	27
GENERAL AVIATION	7
AMT 1007 Hanger and Shop Safety, AMT 1017 Mathematics, AMT 1027 Physics and Aerodynamics, AMT 1037 Ground Handling and Servicing, AMT 1047 Weight and Balance, AMT 1057 Materials, Processes and NDI, AMT 1067 Hardware and Precise Measuring Instruments, AMT 1077 Cleaning and Corrosion Control, AMT 1087 Aircraft Drawings, AMT 1097 Hand and Power Tools, AMT 1107 Fluid Lines and Fittings, AMT 1117, FAR's Publications and Records, AMT 1127 Basic Electricity and DC Circuits, AMT 1137 Battery Service and Inspection, AMT 1147 AC Electrical Circuits.	
AIRFRAME TECHNOLOGY	10
AMT 4100 Assembly and Rigging, AMT 4115 Welding, AMT 4125 Finishes and Fabric Covering, AMT 4235 Sheet Metal Structures, AMT 4245 Bonded Structures, Lam and Plastics, AMT 4300 Aircraft Electrical Systems, AMT 4315 Hydraulic and Pneumatic Systems, AMT 4325 Landing Gear Systems, AMT 4335 Atmosphere and Climate Control, AMT 4405 Fuel, Ice And Rain Control, Fire Detection and Extinguishing Systems, AMT 4415 Instrument Position and Warning Pilot, Static Comm/Nav Systems, AMT 4425 Aircraft Inspections.	
POWER PLANT TECHNOLOGY	10
AMT 3105 Reciprocating Engine Theory, AMT 3115 Reciprocating Engine Maintenance and Overhaul, AMT 3125 Ignition and Starting Systems, AMT 3205 Turbine Engine Theory, AMT 3215 Turbine Engine Maintenance and Overhaul, AMT 3225 Fuel and Fuel Metering Systems, AMT 3305 Induction and Exhaust Systems, AMT 3315 Lubrication and Cooling Systems, AMT 3325 Fire Protection Systems, AMT 3335 Propellers, AMT 3405 Electrical Systems, AMT 3415 Instrument Systems, AMT 3425 Inspections.	
TOTAL CREDIT HOURS	64

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Aviation Maintenance Technician: Airframe and Power Plant Technology Option from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
GENERAL EDUCATION	37
NWOSU	21-22
PROGRAM REQUIREMENTS	
PROGRAM REQUIREMENTS	27
NWOSU	27
ELECTIVES	
Direct Upper Level from NWOSU	14
TOTAL CREDIT HOURS	126

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

ELECTRONICS TECHNOLOGY

This Associate in Applied Science degree program in Electronics Technology consists of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	21
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing	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 1104 Technical Math-Algebra/Trig	4
MATH 2373 Technical Math-Applied Calculus	3
PHYS 2812 Applied Physics	2
TECHNICAL CORE	29
CS 1002 Beginning C Programming	2
CS 2532 Assembly Programming	2
ET 1103 Fundamentals of Electricity/Electronics	3
ET 1113 Electronic Devices & Amplifiers	3
ET 1123 Electrical Motor Controls	3
ET 1162 Electronics CADD	2
ET 1223 Electronic Amplifiers	3
ET 1243 Circuit Analysis I (Dig. Elect. I)	3
ET 1311 Precision Measurements &	
Measuring Devices	1
ET 2243 Operational Amplifier Techniques	3
ET 2373 Digital Logic Analysis	3
ET 2731 Electronic Construction and Design	1
INDUSTRIAL FOCUS	12
ET 1252 Pneumatic Controls	2
ET 2002 Hydraulic Systems	2
ET 2202 Mechanical Systems	2
ET 2513 Process Instrumentation & Control	3
ET 2853 Programmable Logic Controllers	3
MICROCOMPUTER FOCUS	12
CS 1102 Advanced C Programming	2
ET 2812 Microcomputer Servicing	2
ET 2813 Microcomputer App. & Servicing	3
ET 2822 Microcomputer Networks	2
ET 2823 Microcomputer Troubleshooting & Repair	3
TOTAL CREDIT HOURS	62

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Electronics Technology from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41

**CREDIT SUMMARY
GENERAL EDUCATION**

GENERAL EDUCATION	
NOC	21
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Technical Core	29
NOC Industrial Focus	12
NOC Microcomputer Focus	12
NWOSU Direct Upper Level	27
ELECTIVES	
Direct Upper Level from NWOSU	14
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Applied Arts and Sciences Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

**ELECTRONICS TECHNOLOGY
ELECTRICAL ENGINEERING TECHNICIAN**

The Associate's in Applied Science degree program in Electronics Technology: Electrical Engineering Technician option consist of 63 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	28
ENGL 1113 English Composition I	3
ENGL 1223 Technical Writing	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 1513 College Algebra (and)	3
MATH 1613 Plane Trigonometry (or)	
MATH 1104 Technical Math (and)	3-4
MATH 2373 Tech. Math Applied Cal. (and)	3
MATH 2812 Technical Math-Applied Physics	2
PHYS 1014 Concepts of Physics (or)	
CHEM 1014 Concept of Chemistry (or)	
PHYS 1114 General Physics I (and)	4
PHYS 1214 General Physics II	4
CS 1113 Computer Concepts	3
GENERAL EDUCATION ELECTIVES	4
SPCH 1713 Oral Communication, BSAD 1103 Introduction to Business, ECON 2113 Macroeconomic Principles (or) PHYS 1214 General Physics II (For students interested in transferring to a four year university.	
TECHNICAL/OCCUPATIONAL SPECIALTY	6-9
PTEC 1313 Safety, Health and Work Practices	3
PTEC 2243 Principles of Quality	3
ET 2460 Internship in Electronics Tech.	0-3
TECHNICAL/OCCUPATIONAL SPECIALTY	29
CS 1002 Beginning C Programming	2
CS 2532 Assembly Programming	2
ET 1103 Fundamentals of Electricity/Electronics	3
ET 1113 Electronic Devices and Amplifiers	3
ET 1123 Electrical Motor Controls	3
ET 1162 Electronics CADD	2
ET 1223 Electronic Amplifiers	3
ET 1243 Circuit Analysis I (Dig. Elect. I)	3
ET 1252 Pneumatic Systems	2
ET 1311 Precision Measurements & Measuring Devices	1
ET 2243 Operational Amplifiers Tech.	3
ET 2373 Digital Logic Analysis	1
ET 2731 Electronic Construction & Design	1
TOTAL CREDIT HOURS	63

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Aviation Maintenance Technician: Airframe and Power Plant Technology Option from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41

**CREDIT SUMMARY
GENERAL EDUCATION**

GENERAL EDUCATION	28
NOC	21-22
PROGRAM REQUIREMENTS	
NOC Technical Occupational Specialty	6-9
NOC Technical Occupational Specialty II	29
NWOSU	27
ELECTIVES	
Direct Upper Level from NWOSU	14
TOTAL CREDIT HOURS	125

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Science, Math, and Engineering

**Bachelor in Applied Arts and Sciences Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

ENGINEERING TECHNOLOGY: DRAFTING AND DESIGN

This Associate in Applied Science degree program in Engineering Technology: Drafting and Design Option consists of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	25
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing	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 1513 College Algebra	3
MATH 1613 Plane Trigonometry	3
PHYS 1114 General Physics I	4
GENERAL EDUCATION ELECTIVES	3
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Sociology Sciences.	
TECHNICAL OCCUPATIONAL SPECIALTY	35
DRFT 1103 Introduction to Drafting	3
DRFT 1113 Introduction to Auto CAD	3
DRFT 1143 Technical Drafting I	3
DRFT 1152 Technical Drafting II	2
DRFT 1204 Machine Drafting	4
DRFT 2212 Technical Illustration	2
DRFT 2223 Architectural Drafting I	3
DRFT 2243 Architectural Drafting II	3
DRFT 2333 3 D Modeling	3
DRFT 2433 Animation	3
DRFT 2453 CAD Practicum	3
DRFT 2463 CAD Internship	3
TOTAL CREDIT HOURS	60 OR 762?

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Electronics Technology from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
PROGRAM REQUIREMENTS	
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41

**CREDIT SUMMARY
GENERAL EDUCATION**

GENERAL EDUCATION	
NOC	21
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Technical Core	29
NOC Industrial Focus	12
NOC Microcomputer Focus	12
NWOSU Direct Upper Level	27
ELECTIVES	
Direct Upper Level from NWOSU	14
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Nursing

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

HEALTH SERVICE TECHNOLOGY

The Associate's in Science degree Program in Health Service Technology consist of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	33
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 1513 College Algebra or Equivalent	3
SCIENCE	
BISI 1114 General Biology	4
BISI 2214 Human Anatomy and Physio (or)	
BISI 2104 Human Anatomy (or)	
BISI 2204 Human Physiology	4
CS 1113 Computer Concepts	3
GENERAL EDUCATION ELECTIVES	3-7
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
TECHNICAL OCCUPATIONAL SPECIALTY	7
HLST 1012 Medical Math	2
HLST 1112 Medical Terminology	2
HLST 1111 Medical Asepsis	1
HLST 1211 Medical Ethics	1
HLST 1311 CPR/FA/AED	1
RECOMMENDED ELECTIVES	20*
HLST 1410 Clinicals I	1-4
HLST 1420 Clinicals II	1-4
HLST 1430 Clinicals III	1-4
HLST 1510 Direct Care	1-5
HLST 1610 Therapeutic Care I	1-6
HLST 1620 Therapeutic Care II	1-6
HLST 1630 Therapeutic Care III	1-6
HLST 1710 Medical Assisting I	1-6
HLST 1720 Medical Assisting II	1-6
TOTAL CREDIT HOURS	60

*General Education courses may be selected in lieu of the Technical Occupational Specialty courses: General Psychology, Principles of Sociology, Ethics of the Workplace, Business Ethics, Microbiology, or General Chemistry I.

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Health Service Technology from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours of upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	33
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Technical Occupational Specialty	7
NOC Recommended Electives	20-22
NWOSU Direct Upper Level	27
ELECTIVES	
Direct Upper Level from NWOSU	14
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Science, Math, and Engineering

**Bachelor in Applied Arts and Sciences Degree
NORTHWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

**INDUSTRIAL TECHNOLOGY
MECHANICAL TECHNOLOGY**

This Associate's in Applied Science degree program in Industrial Technology: Mechanical Technology Option consists of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	28
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	
SPCH 1713 Introduction to Oral Communication (or)	
ENGL 1223 Technical Writing	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 1513 College Algebra (or)	
MATH 1483 Contemporary College Math	3
CS 1113 Computer Concepts	3
HUMN 2123 Development of Science Through History --	3
BSAD 1103 Introduction to Business	3
PHSC 1114 General Physical Science	4
TECHNICAL OCCUPATIONAL SPECIALTY	14-18
PTEC 1124 Pro Troubleshooting	4
PTEC 1313 Safety, Health and Work Practices	3
PTEC 2014 Principles of Technology I-Equipment --	4
PTEC 2243 Principles of Quality	3
PTEC 2224 Process Troubleshooting	4
PTEC 2301 Industrial Observations	1
ITMT 2124 Mechanical Troubleshooting Technology --	4
ITMT 2324 Mechanical Operations	4
ITMT 2460 Internship in Industrial Technology: Mechanical Technology	0-4
TECHNICAL OCCUPATIONAL INDUSTRIAL SPECIALTY	16-20
ITMT 1111 Introduction to Print Reading	1
ITMT 1213 Introduction to Welding	3
ITMT 1311 Introduction to Metallurgy	1
ITMT 1414 Introduction to Mechanical Equipment	4
ITMT 1512 Introduction to Machining	2
ITMT 2123 Introduction to Hydraulics	3
ITMT 2222 Introduction to Electricity & Electronics ---	2
ELECTIVE COURSES	0-4
Industry specific elective courses and/or work certificates may be utilized for this degree that contain the following technical specific areas: Codes and Standards, Confined Space Entry/ Standby, Drafting, Engine Lathes, Furnaces, Gas Testing/Personal Monitors, Hand Tools, Heat Exchangers and Coolers, Instrumentation/Electrical, Insulation Fabrication, Pipefitting, Reactors, Refinery Safety, Reliability Issues, Management Procedures, Rigging, Scaffolding, Towers and Drums, Tube Reading and other upon advisor's approval. General Education courses may also be utilized for elective course credit.	
TOTAL CREDIT HOURS	62

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Industrial Technology: Mechanical Technology Option from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	28
NOC Electives	0-4
NWOSU *4-5 hours upper 3000/4000 level courses	21-22
PROGRAM REQUIREMENTS	
NOC Technical Occupational Specialty	14-18
NOC Technical Occupational Industrial Specialty	16-20
NOC Industry Specific Elective Courses	0-4
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Business

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

**INFORMATION TECHNOLOGY
INTERACTIVE MEDIA OPTION**

This Associate in Applied Science degree Program in Information Technology: Interactive Media Option consist of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing (or)	
BSAD 2113 Business 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 1513 College Algebra (or)	
MATH 1483 Contemporary College Math	3
PHIL 2223 Business Ethics	3
TECHNICAL CORE	27-33
ITEC 1213 Introduction to Multimedia	3
ITEC 1523 Digital Imaging I	3
ITEC 1533 Digital Video I	3
ITEC 1543 Graphic Design I	3
ITEC 2523 Digital Imaging II	3
ITEC 2533 Digital Video II	3
ITEC 2543 Graphics Design II	3
ITEC 2553 Multimedia Project	3
ITEC 2563 Digital Imaging III	3
ITEC 2573 Modeling & Animation	3
ITEC 2583 Industry Issues	3
TECHNICAL SUPPORT COURSES	9-15
ITEC Multimedia Authoring I	3
ITEC 1423 Multimedia Authoring II	3
ITEC 1433 Multimedia Authoring III	3
ITEC 1443 Web Authoring I	3
ITEC 2443 Multimedia Portfolio	3
TOTAL CREDIT HOURS	60

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Health Service Technology from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours of upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
GENERAL EDUCATION	
NOC	18
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Technical Core	27-33
NOC Emphasis Track	9-15
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Business

**Bachelor in Applied Arts and Sciences Degree
NORTHERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

**INFORMATION TECHNOLOGY
NETWORK ENGINEERING**

This Associate's in Applied Science degree program in Information Technology: Network Engineering Option consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ENGL 1113 English Composition I (or)	
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing	3
BSAD 2113 Business Communications	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 1513 College Algebra (or)	3
MATH 1483 Contemporary College Math	3
PHIL 2223 Business Ethics	3
TECHNICAL OCCUPATIONAL SPECIALTY	36
CORE OCCUPATIONAL SPECIALTY	12
ITEC 1113 PC Technician I-Hardware	3
ITEC 1123 PC Technician II- Operating Systems	3
ITEC 2106 Information Technology Essentials	6
Select one emphasis track below-24 hours plus 6-15 additional hours form Occupational Electives or from one of the other emphasis areas. Other hours may be substituted with Instructor approval.	
ADMINISTRATIVE EMPHASIS:	
ITEC 1146 Network Operating Systems	6
ITEC 1136 Network Administration	6
ITEC 2156 Server Implementation and Support	6
ITEC 2166 Network Management	6
NETWORK EMPHASIS	
ITEC 2116 Networking Fundamentals	6
ITEC 2126 Router Theory and Configuration	6
ITEC 2136 Advanced Routing & Switching Design	6
ITEC 2146 Advanced Network Design & Management	6
TELECOMMUNICATIONS EMPHASIS	
TCOM 1102 Tools and Equipment Principles	2
TCOM 1763 Introduction to Telecommunications	3
TCOM 1644 DC and AC Circuit Analysis	4
TCOM 2116 Voice and Data Cabling	6
OCCUPATIONAL ELECTIVES	6-15
ITEC 1233 Internet Security	3
ITEC 1223 Network Security	3
ITEC 1253 Voice, Video and Data Integration	3-6
ITEC 2783 Wireless Technologies	3
ITEC 2236 Advanced Routing	6
ITEC 2246 Remote Access	6
ITEC 2256 Multilayer Switching	6
ITEC 2556 Network Troubleshooting	6
ITEC 2213 Employability Skills	3
TCOM 2440 Special Projects	1-6
ITEC 2216 Networking Projects/Electives	1-6
TOTAL CREDIT HOURS	60

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Information Technology: Network Engineering Option from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
GENERAL EDUCATION	18
NWOSU *4-5 hours upper 3000/4000 level courses	21-22
PROGRAM REQUIREMENTS	
NOC Technical Core	27-36
NOC Occupational Electives	6-15
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Business

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

**INFORMATION TECHNOLOGY
WEB DEVELOPEMENT OPTION**

This Associate in Applied Science degree Program in Information Technology: Web Development Option consist of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	
ENGL 1223 Technical Writing (or)	
BSAD 2113 Business 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 1513 College Algebra (or)	
MATH 1483 Contemporary College Math	3
PHIL 2223 Business Ethics	3
TECHNICAL OCCUPATIONAL SPECIALTY	24
Select courses from the following technical-occupational specialty area to total a minimum of 24 hours. Note: Courses may be substituted from the emphasis track areas or other courses may be substituted with instructor approval.	
ITEC 1313 Web Design I	3
ITEC 1323 Web Graphics I	3
ITEC 1346 HTML and Internet Fundamentals	6
ITEC 1356 Interface Design, Architecture and Layout	6
ITEC 1413 Introduction to Object Oriented Program	3
ITEC 1513 Java Programming	3
ITEC 2213 Employability Skills	3
ITEC 2316 Web Design II	6
ITEC 2356 Web Projects/Electives	6
EMPHASIS TRACK	18
Select one emphasis track area to total a minimum of 18 hours. Note: other courses may be substituted with instructor approval.	
ITEC 2366 E-Commerce Concepts and Implementation	6
ITEC 2373 Server Networking and Security	3
ITEC 2386 Internet Programming	6
ITEC 2440 Website Management and Analysis	3-6
GRAPHICS/MEDIA DESIGN FOCUS:	
ITEC 2326 Web Graphics II	6
ITEC 2336 Web Animation	6
ITEC 2346 Imaging, Virtual Reality and Digital Video	6
WEB PROGRAMMING FOCUS:	
ITEC 2303 Database Management	3
ITEC 2373 Server Networking and Security	3
ITEC 2386 Internet Programming	6
ITEC 2396 Web Applications Development	6
TOTAL CREDIT HOURS	60

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Information Technology: Web Development Option from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours of upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	18
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Technical Occupational Specialty	24
NOC Emphasis Track	18
NOC Technical-Occupational Electives	1-2
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	124

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE
Division of Business**

**Bachelor in Applied Arts and Sciences Degree
NORTHERN OKLAHOMA STATE UNIVERSITY
School of Arts and Sciences**

OFFICE MANAGEMENT

This Associate's in Applied Science degree program in Office Management consists of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
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 American History since 1865	3
POLI 1113 American Government	3
CS 1113 Computer Concepts	3
Select courses from Fine Arts, Foreign Languages, Humanities, Language Arts and Sciences	
BUSINESS CORE REQUIREMENTS	18
BSAD 1103 Introduction to Business	3
ACCT 1113 Basic Business Records (or)	
ACCT 2103 Accounting I-Financial	3
CS 2123 Business Technologies & Application --	3
MATH 1513 College Algebra	3
ACCT 2103 Accounting I- Financial (or)	
ACCT 2203 Accounting II-Manual	3
ECON 2123 Microeconomic Principles (or)	
ECON 2113 Macroeconomic Principles	3
*Courses may be taken at NOC or a Career Tech Center	
TECHNICAL OCCUPATIONAL SPECIALTY REQUIREMENTS	15
OFAD 2243 Office Management	3
OFAD 2333 Beginning Word Processing	3
OFAD 2343 Advanced Word Processing	3
OFAD 2213 Office Procedures	3
BMGT 1213 Spreadsheets	3
SUGGESTED ELECTIVES FROM NOC OR CAREER TECH CENTER	6-15
ACCT 2123 Microcomputer Accounting I*	3
BMGT 2163 Marketing on the Internet (or)	
BMGT 2143 Marketing-NOC	3
ECON 2113 Macroeconomic Principles (or)	
ECON 2123 Microeconomic Principles	3
BMGT 2233 Human Resource Management	3
BMGT 2240 Business Internship	3
BMGT 2263 Principles of Management	3
BMGT 2313 Business Law	3
OFAD 1103 Beginning Keyboarding & Formatting ---	3
OFAD 1113 Business Calculations	3
OFAD 2112 Records Management	2
OFAD 2113 Desktop Publishing	3
OFAD 2240 Internship	1-4
ITEC 1213 Introduction to Multimedia	3
ITEC 1313 Web Design I	3
ITEC 1323 Web Graphics I	3
ITEC 2213 Employability Skills	3
ITEC 2316 Web Design II	6
ITEC 2336 Web Animation	6
* Courses may be taken at NOC or a Career Tech Center	
TOTAL CREDIT HOURS	60

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Office Management from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	18
NWOSU *4-5 hours upper 3000/4000 level courses	21-22
PROGRAM REQUIREMENTS	
NOC Business Core	18
NOC Technical Occupational Specialty Requirements	15
NOC Suggested Electives	9-11
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Business

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

**OFFICE MANAGEMENT
MEDICAL ASSISTANT OPTION**

This Associate in Applied Science degree Program in Office Management: Medical Assistant Option consist of 60 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	
BSAD 2113 Business Communication	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
CS 1113 Computer Concepts	3
Select courses from Fine Arts, Foreign Languages, Humanities, Language Arts and Sciences	
BUSINESS CORE REQUIREMENTS	18
BSAD 1103 Introduction to Business	3
ACCT 1113 Basic Business Records (or)	
ACCT 2103 Accounting I-Financial	3
CS 2123 Business Technologies & Application --	3
MATH 1513 College Algebra	3
ACCT 2103 Accounting I- Financial (or)	
ACCT 2203 Accounting II-Managerial	3
ECON 2123 Microeconomic Principles (or)	
ECON 2113 Macreonomic Principles	3
*Courses may be taken at NOC or a Career Tech Center	
TECHNICAL OCCUPATIONAL SPECIALTY REQUIREMENTS	14
OFAD 1405 Medical Fundamentals I	5
HLST 1112 Medical Terminology	2
HLST 1226 Personal & Professional Development -	6
HLST 1311 CPR/FA/AED	1
TECHNICAL OCCUPATIONAL SPECIALTY AREAS OF EMPHASIS	10
Students may choose either one emphasis area or a combination of back office and front office emphasis areas.	
CLINICAL (back office)	
OFAD 1415 Medical Fundamentals II	5
OFAD 2213 Office Procedures	3
ADMINISTRATIVE (front office)	
OFAD 2213 Office Procedures	3
BMGT 1213 Spreadsheets	3
OFAD 1131 Insurance and Billing	1
OFAD 1141 Medical Transcription	1
OFAD 1152 ICD9 Coding	2
INTERNSHIP (back office and/or front office)	
OFAD 2240 Internship	1-4
TOTAL CREDIT HOURS	60

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Office Management: Medical Assistant Option from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours of upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems ----	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	18
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Business Requirements	18
NOC Technical-Occupational Requirements	14
NOC Technical-Occupational Specialty Areas of Emphasis ----	1-2
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	124

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**

Division of Nursing

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**

School of Arts and Sciences

RADIOGRAPHY

This Associate's in Applied Science degree program in Radiography consists of 70 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
MATH 1513 College Algebra	3
CS 1113 Computer Concepts	3
TECHNICAL OCCUPATIONAL SPECIALTY	52
RADT 1022 Radiation Protection	2
RADT 1053 Principles of Radiographic Imaging I ---	3
RADT 1055 Positioning & Radiographic Evaluation I ----	5
RADT 1062 Introduction to Radiologic Technology - 2	
RADT 1073 Methods of Patient Care	3
RADT 1111 Clinical Training I	1
RADT 1112 Clinical Training III	2
RADT 1122 Clinical Training II	2
RADT 1134 Principles of Radiographic Imaging II ---	4
RADT 1155 Positioning & Radiographic Evaluation II ----	5
RADT 1222 Radiation Biology	2
RADT 1443 Medical Terminology	3
RADT 2115 Physics of X-ray Equipment	5
RADT 2132 Special Imaging & Therapeutic Modalities - 2	
RADT 2142 Advanced Radiographic Evaluation ----	2
RADT 2162 Radiographic Pathology	2
RADT 2211 Clinical Training IV	1
RADT 2232 Radiology Management	2
RADT 2312 Clinical Training V	2
RADT 2322 Clinical Training VI	2
TOTAL CREDIT HOURS	70

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Radiography from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems ----	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	18
NWOSU *4-5 hours upper 3000/4000 level courses	21-22
PROGRAM REQUIREMENTS	
NOC Technical Occupational Specialty	52
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	132

Associate to Baccalaureate Degree

**Associate in Applied Science Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Nursing

**Bachelor in Applied Arts and Sciences Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

RESPIRATORY CARE

This Associate in Applied Science degree Program in Respiratory Care consist of 69 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor of Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	18
ENGL 1113 English Composition I	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American Government	3
BISI 1114 General Biology (or)	
CHEM 1314 General Chemistry	4
BISI 2214 Human Anatomy & Physiology	4
CS 1113 Computer Concepts	3
TECHNICAL OCCUPATIONAL SPECIALTY	49
RESP 1114 Introduction to RC Procedures	4
RESP 1121 Clinical Applications I	1
RESP 1133 Clinical Pharmacology	3
RESP 1214 Respiratory Care Procedures II	4
RESP 1223 Clinical Applications II	3
RESP 1232 Clinical Applications III	2
RESP 1243 Pulmonary Pathology	3
RESP 1253 Cardiopulmonary Anatomy & Physiology	3
RESP 2124 Advanced Clinical Applications I	4
RESP 2224 Advanced Clinical Applications II	4
RESP 2232 Advanced Clinical Applications III	2
RESP 2422 Pulmonary Diagnosis & Rehab	2
RESP 2445 Mechanical Ventilation	5
RESP 2513 Introduction to Critical Care	3
RESP 2613 Pediatric/Neonatal Respiratory Care	3
RESP 2621 Board Exam Review	1
RESP 2622 Professional Development of the Respiratory Care Practitioner	2
TOTAL CREDIT HOURS	69

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Respiratory Care from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours of upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS

	Credit Hours
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MRKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Directed Upper Level Classes	14
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
GENERAL EDUCATION	
NOC	20
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC Technical Occupational Specialty	49
NWOSU Technical Management Requirements	27
ELECTIVES	
NWOSU Direct Upper Level	14
TOTAL CREDIT HOURS	131

**Associate in Arts Degree
NORTHERN OKLAHOMA COLLEGE**
Division of Language Arts

**Bachelor in Science Degree
NORTHERNWESTERN OKLAHOMA STATE UNIVERSITY**
School of Arts and Sciences

PRINTING TECHNOLOGY

The Associate in Applied Science degree program in Printing Technology consist of 62 hours designed to provide the student with the first two years of general requirements for transfer seamlessly to the Bachelor in Applied Arts and Sciences Technical Management at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS	Credit Hours
GENERAL EDUCATION	20
COMMUNICATIONS	
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II (or)	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1865 (or)	
HIST 1493 American History since 1865	3
POLI 1113 American National Government	3
ORNT 1101 Freshman Orientation	1
CS 1113 Computer Concepts	3
GENERAL EDUCATION ELECTIVES	4
Select courses from Fine Arts, Foreign Languages, Humanities, Mathematics, Language Arts, Natural Sciences, Psychology, or Social Sciences.	
PROGRAM REQUIREMENTS	30
GRAT 1113 Introduction Graphic Arts	3
GRAT 1143 Copy, Prep, Design and Layout	3
GRAT 1223 Graphic Arts Camera I	3
GRAT 1233 Graphic Arts Camera II	3
GRAT 2243 Offset Presswork I	3
GRAT 2253 Offset Presswork II	3
GRAT 2270 Printing Production Practicum I	6
GRAT 2280 Printing Production Practicum II	6
GRAT 2450 Supervised Study in Graphic Arts	0-6
GRAT 2460 Internship in Graphic Arts	0-6
Recommended Electives	10
Any course offered may be used to meet this requirement	
Activity Physical Education	2
TOTAL CREDIT HOURS	60
PHYSICAL EDUCATION ACTIVITY	2
TOTAL CREDIT HOURS	62

TECHNICAL MANAGEMENT

Transfer students who have completed an Associate in Applied Arts and Science degree in Printing Technology from Northern Oklahoma College will need to complete 21-22 hours (4-5 hours upper 3000/4000 level courses) at NWOSU to satisfy the General Education Requirements.

PROGRAM REQUIREMENTS	Credit Hours
PROGRAM REQUIREMENTS	41
ACCT 2123 Financial Accounting	3
ACCT 2133 Managerial Accounting	3
GBUS 3903 Business Law I	3
MGMT 4433 Business Policy	3
MGMT 3063 Principles of Management	3
MGMT 3433 Organizational Behavior	3
MGKT 3043 Principles of Marketing	3
MIS 4413 Management Information Systems	3
MIS 3003 Data Management Systems	3
Direct Upper Level Classes	2
TOTAL CREDIT HOURS	41
CREDIT SUMMARY	
TECHNICAL MANAGEMENT	
GENERAL EDUCATION	
NOC	20
NWOSU	21-22
PROGRAM REQUIREMENTS	
NOC	30
NOC Recommended Electives	10
NOC Physical Education Activity	2
NWOSU (BAAS Technical Management requirements)	27
ELECTIVES	
NWOSU (Direct Upper Level)	14
TOTAL CREDIT HOURS	124