

Instructional Divisions and Programs

Mark Vest, Vice President for Learning and Student Services

Arts and Sciences Dr. Eric Henderson, Dean

Anthropology

Art

Biology Chemistry

Developmental Education

The Learning Cornerstone

Developmental Reading
Developmental Writing

Developmental Math

Study Skills

ABE/GED (instruction)

Learning Assistance

TLC Tutoring Placement

Student Writing Centers

Early Childhood Development

Education English Geography

Geology

History

Honors Colloquia

Human Development

Human Services

Humanities

Languages

Mathematics

Music

Philosophy

Photography Technician

Physics

Political Science

Psychology

Sociology

Speech/Theatre

Nursing and Allied Health

Ms. Peg Erdman, Dean

Allied Health - HES

Medical Assistant

Nursing Program

Nursing Assistant Training

Continuing Nursing Education

Paramedicine (EMT)

Pharmacy Technician

Apache County Programs

Ms. Tamara Martin, Coordinator

Center Programming (Apache County)

Springerville/Eagar

St. Johns

Career and Technical Education

Ms. Peggy Belknap, Dean

Administration of Justice Studies

Administrative Information Services

Automotive Technology

Business

Business and Industry Training

Community Services

Computer Information Systems

Construction Technology

Cosmetology

Dept. of Corrections

Drafting

Fire Science

Health and Physical Education

Heavy Equipment Operations

Industrial Arts Technology

Industrial Maintenance and Operations

Law Enforcement Academy

Welding

Carl Perkins Vocational Funding

Information and Communications Technology (ICT) Programs

Dr. Wei Ma, Coordinator

Programs and Degrees

What Degree Programs are Available?

Northland Pioneer College offers an Associate of Arts (AA), Associate of Arts in Elementary Education (AAEE), Associate of Business (ABUS), and Associate of Science (AS) degrees designed for students transferring into four-year college or university programs. The general education requirements for these degrees are specifically designed to transfer to Arizona's public universities, fulfilling their lower division general education requirements.

The Associate of Applied Science (CAS) Degree and the Certificate of Applied Science (CAS) are awarded at the completion of programs designed to prepare graduates for employment. Certificate of Proficiency (CP) and Certificate of Completion (CRT) are also awarded in certain occupation-specific programs. Not all degree programs are offered at every NPC location. Consult with an academic adviser for offerings at your campus or center, or information about a housing assistance scholarship if you need to re-locate to attend specific classes.

The Associate of General Studies (AGS) Degree is intended for nonmajors seeking greater flexibility in planning their education. The AGS degrees in Early Childhood and Special Needs Educational Assistant provide a student the flexibility of meeting work-related course mandates while also pursuing general education courses that may serve as a foundation for a bachelor's degree. Although many courses within these programs may transfer to a four-year college or university, students should not assume that all courses will transfer.

General Education Values

General education is central to Northland Pioneer College's purposes, its definition and its academic commitments. Through a general education program, the college commits students and professors to the pursuit of comprehensiveness in learning - to seeing the relationship of special interests to the larger academic and cultural contexts that we share. It offers vantage points from which to sharpen our awareness of the development of our own culture and its relationship to others. The search for an integrated understanding requires a general desire to learn, an energetic interest in the world and a willingness to put us in the place of those whose beliefs and outlooks are different from our own. A general education program, pursued by curious and empathic professors and students, provides a structure in which the accumulation of knowledge and the practice of disciplined, independent thinking can grow into comprehensive understanding, appreciation and reasoned value.

An effective general education program requires the exercise of thoughtful and precise writing, critical reading, quantitative thinking and processes of analysis and synthesis that underlie valid reasoning. Therefore, students must have a solid foundation in writing, reading, mathematics and critical thinking.

Studies in the traditional academic disciplines are built upon foundation skills in thought and communication, and lead students to grasp the conceptual frameworks that govern different fields of study. Such courses demonstrate that the study of specialized subject matter in any of the traditional knowledge areas – arts and humanities, mathematics, physical and biological sciences, social and behavioral sciences – is critical to the central dialogues of general education.

General education studies focus on the conceptual frameworks through which a thinker, a culture, or an academic discipline may approach an issue. We discover both the ordering power and the potential limitations of the fundamental models of understanding that have shaped our thinking throughout the history of civilization. We acknowledge the dependence of thought upon these models, judge them through comparison with alternative models from other thinkers and cultures, and yet are able to continue to participate with active, discerning commitment in the political, ethical and aesthetic life of the community.

The purpose of general education is to give each student pursuing an undergraduate degree the fundamental skills and the familiarity with various branches of knowledge that are associated with college and university education and the cultivation necessary for a lifetime of learning, problem solving and responsible, humane action.

Assessment at NPC: Faculty and Student Roles

Northland Pioneer College adheres to "the following published definition of assessment as drafted by the Director of the Assessment Forum at the American Association for Higher Education and refined by educators across the nation: (NCA Staff Paper, 1996)"

Assessment is an ongoing process aimed at understanding and improving student learning. It involves making our expectations explicit and public; setting appropriate criteria and high standards for learning quality; systematically gathering, analyzing and interpreting evidence to determine how well performance matches those expectations and standards; and using the resulting information to document, explain and improve performance. When it is embedded effectively within larger institutional systems, assessment can help us focus our collective attention, examine our assumptions and create a shared academic culture dedicated to assuring and improving the quality of higher education (AAHE Bulletin, November, 1995, p. 7).

The principle of assessment, and use of assessment feedback for measuring and improving overall student academic achievement and institutional effectiveness, is an integral part of NPC. Assessment of Student Academic Achievement applies to all five major academic related missions of NPC: general education, transfer preparation education, basic skills/developmental education, customized education, and personal interest education. Assessment is integral to the matching of instructional resources to the diversity of student academic needs in a manner that is accountable to all stakeholders.

Faculty Role

Assessment of Student Academic Achievement includes the extent to which each instructional academic unit (department, etc.) actually contributes to the incremental learning of its students in:

- 1. Cognitive Learning (knowledge acquisition);
- 2. Behavioral Learning (skill acquisition); and
- 3. Affective Learning (attitudinal development).

Hence, over time each academic unit is expected to measure its performance in facilitating student academic achievement in these areas. Each academic unit's faculty members help collect assessment data through faculty-directed student activities designed to enhance learning.

Student Role

Students at NPC are expected to take an active role in their acquisition of knowledge, skill and attitude. This includes the student's responsibility in acting upon appropriate:

- Academic guidance with respect to course and program enrollment;
- 2. Regular participation in faculty-structured learning activities including attendance at scheduled times;
- 3. Completion of assignments in a timely manner; and
- 4. Serious preparation for and completion of learning AND assessment activities including essays, papers and examinations.

Specifically, over the length of a course or program NPC instructional units will collect samples of students' work across the college district, for use in assessment of collective student academic achievement. Such collected samples of students' work generally will be from selected coursework required to complete a program or degree, or representative of work done up to a predetermined point along the way to program or degree completion. Similarly, students and alumni may also be asked to complete surveys reflecting aspects of student academic achievement related to their programs.

Student work submitted by faculty for assessment of student academic achievement across time and district will be reviewed confidentially. However, students are still expected to do their best, whether the work selected was used by the faculty toward a course grade and/or by the academic units as a broader assessment of NPC students' academic achievement.

Transfer Degree Programs

The Associate of Arts (AA), Associate of Arts in Elementary Education (AAEE), Associate of Business (ABus), and Associate of Science (AS) degrees are designed for students intending to transfer into four-year college or university programs. The general education requirements of these degrees are especially designed to transfer to Arizona's public universities, fulfilling their lower division general education requirements.

What is AGEC?

- AGEC stands for Arizona General Education Curriculum. AGEC is the best way to make your credits count for most transfer degrees.
- The purpose of AGEC is to provide Arizona public community college students with the opportunity to build a General Education curriculum that is transferable upon completion without a loss of credit to another Arizona public community college or university.
- AGEC is a statewide agreement between Arizona public community colleges, Northern Arizona University (NAU), Arizona State University (ASU), and the University of Arizona (U of A).
- AGEC is a 35-credit block of lower division General Education curriculum that fulfills the lower-division General Education requirements at any Arizona public community college or university.

Why complete an AGEC?

- When you complete an AGEC, all admission requirements are waived at all Arizona public universities. This means that you are unconditionally admitted to any Arizona public university of your choice after completing an AGEC. Arizona residents need to have a minimum AGEC GPA of 2.5. This does not mean that they will accept ALL transferable courses. Please see an adviser to discuss which courses will be counted toward the university's graduation requirements.
- AGEC-A satisfies ALL lower-division liberal studies requirements at all Arizona public universities.
- AGEC-B satisfies ALL lower division business studies requirements at all Arizona public universities.
- AGEC-S satisfies ALL lower division general education requirements in mathematics and math-intensive science programs at all Arizona public universities.
- For most majors, if you complete an AGEC and specific courses you need for transfer, you can enter any Arizona public university as a junior. Please see an adviser for more information.
- Save money by completing your lower-division

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requirements at NPC. On average, Northland Pioneer College tuition rates are about one-third of the Arizona public universities' tuition.

- Classes are generally smaller than university freshman and sophomore liberal studies classes.
- If you have high school concurrent enrollment credits, transfer credits from another accredited college or university and/or CLEP credits that satisfy our General Education requirements, these credits may be counted toward an AGEC. An academic adviser can assist in determining whether those credits can be applied toward AGEC requirements.
- Students transferring to NPC from other institutions must complete a minimum of 15 credits of AGEC courses at NPC, which will include 13 or more credits from the arts and humanities, physical and biological sciences and the social and behavioral sciences to receive AGEC certification from NPC.

What happens if you don't complete an AGEC block?

- You will need to meet ALL standard university admission requirements.
- You will need to complete university requirements, which may or may not be the same as Northland Pioneer College's General Education requirements.
- Your General Education courses will be evaluated on a course-by-course basis using the Course Equivalency Guide (CEG) and may not meet the specific general education requirements at the university.

Transfer Degrees

Transfer: All courses included in these degrees must transfer to the three Arizona public universities as direct equivalents, departmental elective credits, or general elective credits. Students planning to transfer to a four-year college or university are advised to work with NPC academic advisers to facilitate a smooth and efficient transfer process. Access to information about degrees and pathways, common courses, Course Equivalency Guides, transfer guides and Arizona college and university catalogs is available through an academic adviser or directly at www.AZTransfer.com.

Requirements: The Associate of Arts, Associate of Arts in Elementary Education, Associate of Business, and Associate of Science degrees require a minimum of 64 hours of course credits to complete, with a grade of 'C' or better in all courses and a cumulative grade point average of 2.0 on a 4.0 scale.

Additionally, some of these courses have placement or course prerequisites that must be fulfilled. Completion of these prerequisites may result in coursework beyond 64 credits.

For courses that do have prerequisites or require satisfactory placement, a grade of 'C' or better is required in the

prerequisite courses. [For prerequisite purposes only, a 'P' (passing) grade is the equivalent of a 'C' grade.] More information about course prerequisites may be found in *Part IV*, *Course Descriptions*, which lists individual courses, or by consulting an academic adviser.

Graduates must complete at least 35 to 36 credits of general education options as listed for the specific degree. These must include six credits in English composition, three to four credits in mathematics, nine credits from the arts and humanities, eight credits from the natural sciences, and nine credits from the social and behavioral sciences. An additional 28 to 29 credits should be chosen carefully based on lower division and common course requirements for majors at the college or university to which the student plans to transfer.

Emphasis: In most NPC general education courses, special emphasis is placed upon developing written communication skills with intensive writing requirements embedded within each. Race and ethnic issue awareness is also embedded throughout the general education requirements of the arts and humanities, social and behavioral sciences, and physical and biological sciences. Specific courses, as noted in the degrees, meet the requirement for Contemporary Global/International or Historical Awareness.

University Transfer Agreements

NPC partners with other regionally-accredited colleges and universities, both within and outside of Arizona, through official articulation agreements that assist students with making a smooth transition from NPC to a participating 4-year institution without duplicating coursework. NPC students participating in transfer agreements are able to fulfill the four-year college's requirements by completing articulated courses at NPC. These partner institutions offer a variety of courses and programs online, via interactive television or classes through most NPC locations.

Students interested in learning more about transfer opportunities should contact an NPC academic adviser for more information regarding the partnerships available to NPC students. A listing of current transfer agreements can be found at www.npc.edu/transfer-agreements.

Please note that articulation agreements are subject to change without notice. Students are encouraged to meet as early as possible and periodically with an academic adviser both at NPC and at the transfer institution to confirm their choice of classes and to develop an education plan for transfer.

It is the final responsibility of the student to successfully meet all transfer requirements.

SUN numbers SUN#

NPC courses that transfer directly to other Arizona public community colleges and three state universities now

have an additional notation in the NPC class schedule: the **Shared Unique Number** (SUN). The SUN number consists of the **SUN** symbol followed by a unique three-letter prefix and four-digit course number. For example, NPC offers its transfer course General Biology I with the designation BIO 181. Now the listing also includes its SUN number, **SUN** BIO 1181.

Watch for SUN numbers. When you enroll in an NPC course having this unique identifier, you know those class credits will be accepted by the three Arizona state universities and community colleges. For additional information about the SUN System, visit www.azsunsystem.com.

After January 2012, SUN course numbers will be included on your college transcript.

Definitions

The terms below are used in the degree program descriptions in the pages that follow:

General Education Requirements: Courses, typically mathematics, English and others, from a predetermined list of discipline studies (included within each degree or program description) that provide students with a broad knowledge base.

Core Requirements: Courses specifically selected to educate the student in the essential knowledge of the individual program.

Required Electives: Courses specifically selected to supplement and expand the student's knowledge base in the individual program.

Unrestricted Electives: Any unduplicated course(s) at the 100-level or higher that the student may wish to select.

Associate of Arts (AA)

About this Degree

The Associate of Arts (AA) degree offers foundational education that enhances good communications skills and provides wide general knowledge. The AA is the basis for a wide range of bachelor degree programs and careers in fields such as languages, literature, political science, and more.

The Associate of Arts degree is a transfer degree designed for students planning to continue their education by transferring to one of the three Arizona public universities. The general education component of our AA degree fulfills all the requirements of the Arizona General Education Curriculum (AGEC-A). When completed, the AGEC-A will transfer to any of the three public Arizona state universities as a block meeting all lower division general education requirements. (see What is AGEC? – page 48)

NPC Requirements

- The Associate of Arts (AA) degree requires a minimum of 64 hours of course credits with a grade of "C" or better in all courses and a cumulative grade point average of 2.0 on a 4.0 scale.
- Some courses have placement requirements or prerequisites that may result in coursework beyond 64 credits. These courses, too, require a grade of "C" or better. For information about prerequisites, see an NPC academic adviser.
- In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements. Specific courses, as noted, meet the requirement for Contemporary Global/International or Historical Awareness.

Degree Requirements • 64 credits

■ General Education Requirements • 35 credits

Completion of the **35** general education course credits fulfills requirements for the Arizona General Education Education Curriculum (AGEC-A) for the Associate of Arts degree. (see What is AGEC? – page 48)

English • 6 credits

ENL 10	1 College Comp	osition I	3	credit
ENL 10	2 College Comp	osition II	3	credit

Mathematics • 3 credits

Select one of the following, or a mathematics course for which MAT 142 or MAT 152 is a prerequisite.

MAT 142 College Mathematics	
with Contemporary Applications3 cre	dit
MAT 152 Advanced Algebra	dit

Arts and Humanities • 9 credits

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	Select three courses from at least two disciplines.		
	ART 101 Understanding Art	3	credit
	ART 115 Art History I	3	credit
	ART 116 Art History II	3	credit
	ENL 220 World Literature I	3	credit
	ENL 221 World Literature II	3	credit
	ENL 224 English Literature I	3	credit
	ENL 225 English Literature II	3	credit
	ENL 230 American Literature I	3	credit
	ENL 231 American Literature II	3	credit
	HUM 150 Humanities in the Western World I	3	credit
	HUM 151 Humanities in the Western World II	3	credit
	MUS 150 Music Appreciation	3	credit
	PHL 101 Introduction to Philosophy	3	credit
	PHL 105 Introduction to Ethics		
	SPT 130 Introduction to Theatre	3	credit
	SPT 150 Introduction to Film		
	SPT 155 History of Television	3	credit

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Physical and Biological Sciences • 8 credits

Select two courses. Students may transfer *either* CHM 130 or CHM 151, **but not both**; therefore, taking CHM 130 and CHM 151 will not satisfy the 8-credit requirement.

BIO 100 Biology Concepts4 cred	lit
BIO 105 Environmental Biology4 cred	dit
BIO 160 Introduction to Human Anatomy	
and Physiology I4 cred	lit
BIO 181 General Biology I4 cred	lit
BIO 182 General Biology II4 cred	lit
CHM 130 Fundamental Chemistry4 cred	lit
CHM 151 General Chemistry I4 cred	lit
CHM 152 General Chemistry II4 cred	lit
GEO 111 Physical Geography4 cred	dit
GLG 101 Introduction to Geology I - Physical4 cred	
GLG 102 Introduction to Geology II - Historical 4 cred	dit
PHY 113 General Physics I4 cred	dit
PHY 114 General Physics II4 cred	dit

Social and Behavioral Sciences • 9 credits

Pick three courses from at least two disciplines. Select at least one asterisk (*) course to meet requirements for Contemporary Global, International or Historical Awareness.

*ANT 102 Cultural Anthropology3 credit
ANT 120 Buried Cities and Lost Tribes3 credit
BUS 140 Principles of Economics - Macro3 credit
BUS 141 Principles of Economics - Micro3 credit
*GEO 110 World Regional Geography3 credit
GEO 120 Human Geography3 credit
*HIS 105 U.S. History to 18773 credit
*HIS 106 U.S. History since 18773 credit
*HIS 155 Western Civilization to 17003 credit
*HIS 156 Western Civilization since 17003 credit
POS 110 American Government3 credit
PSY 101 Introduction to Psychology3 credit
PSY 200 Psychology of Adjustment3 credit
PSY 240 Developmental Psychology3 credit
SOC 120 General Sociology3 credit
SOC 121 Social Problems in America3 credit
SOC 130 Racial, Ethnic and Gender Relations
in Modern Society3 credit

■ Electives • 29 credits

Select elective courses from:

- 1. Courses identified as common courses in university transfer guides in the student's major of choice;
- 2. 0 to 16 credits of language, if required in the student's major of choice at the university you plan to attend;
- 3. Prerequisites
- 4. Electives

The **electives component** must consist of credits that transfer to all three public Arizona universities as defined in the *Course Equivalency Guide* for the year in which the course is completed. Access to information

about degrees and pathways, common courses, *Course Equivalency Guides*, and Arizona college and university catalogs is available through an academic adviser or directly on the Internet at *www.AZTransfer.com*.

Associate of Arts in Elementary Education (AAEE)

About this Degree

If you enjoy children, feel you have a talent for teaching and you want to help improve the world, the **Associate of Arts in Elementary Education (AAEE)** is a degree program you should consider. **The AAEE degree is a transfer degree** providing you with foundational skills in the elementary teaching field while preparing you for initial teacher certification programs at the state's three public universities. The **general education component** of the AAEE degree is specifically designed to fulfill the lower division general education requirements at NAU, ASU and UofA.

Additionally, with your AAEE degree in hand, you meet current elementary school requirements to be a classroom instructional assistant. You have the credentials to work in your chosen setting while completing your bachelor's degree.

NPC Requirements

- The Associate of Arts in Elementary Education degree requires a minimum of 64 hours of course credits with a "C" or better in all courses and a cumulative grade point average of 2.0 on a 4.0 scale.
- Some courses have placement requirements or prerequisites that may result in coursework beyond 64 credits. These courses, too, require a grade of "C" or better. For information about prerequisites, see an NPC academic adviser.
- In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements. Specific courses, as noted, meet the requirement for Contemporary Global/International or Historical Awareness.

Degree Requirements • 64 credits

■ General Education Requirements • 35 credits

Completion of the **35** general education course credits fulfills requirements for the Arizona General Education Education Curriculum (AGEC-A). (see What is AGEC? – page 48)

	*ANT 102 C 1 1 A .1 1 2 1:
English • 6 credits	*ANT 102 Cultural Anthropology
ENL 101 College Composition I3 credit	ANT 120 Buried Cities and Lost Tribes
ENL 102 College Composition II3 credit	BUS 140 Principles of Economics - Macro
Mathematics • 3 credits	BUS 141 Principles of Economics - Micro
Select one of the following, or a mathematics course for	*GEO 110 World Regional Geography
which MAT 142 or MAT 152 is a prerequisite.	GEO 120 Human Geography
	*HIS 105 U.S. History to 1877
MAT 142 College Mathematics	*HIS 106 U.S. History since 18773 credit
with Contemporary Applications3 credit	*HIS 155 Western Civilization to 1700
MAT 152 Advanced Algebra3 credit	*HIS 156 Western Civilization since 17003 credit
Arts and Humanities • 9 credits	POS 110 American Government
Select three courses from at least two disciplines.	PSY 101 Introduction to Psychology
	PSY 200 Psychology of Adjustment
ART 101 Understanding Art3 credit	PSY 240 Developmental Psychology
ART 115 Art History I	SOC 120 General Sociology
ART 116 Art History II	SOC 121 Social Problems in America3 credit
ENL 220 World Literature I	SOC 130 Racial, Ethnic and Gender Relations
ENL 221 World Literature II3 credit	in Modern Society3 credit
ENL 224 English Literature I	SOC 225 Sociology of the Family3 credit
ENL 225 English Literature II	Core Requirements • 15 credits
ENL 230 American Literature I3 credit	You must complete all five courses.
ENL 231 American Literature II3 creditHUM 150	EDU 200 Introduction to Education
Humanities in the Western World I	EDU 220 Diversity in Education
HUM 151 Humanities in the Western World II 3 credit	EDU 222 Introduction to Special Education3 credit
MUS 150 Music Appreciation	MAT 161 Algebra-based Mathematics
PHL 101 Introduction to Philosophy	for Elementary Teachers I
PHL 105 Introduction to Ethics	MAT 162 Algebra-based Mathematics
SPT 130 Introduction to Theatre3 credit	for Elementary Teachers II
SPT 150 Introduction to Film3 credit	
SPT 155 History of Television3 credit	■ Required Electives • 14 credits
Physical and Biological Sciences • 8 credits	1. Successful completion of one of the following:.
Select two courses. Students may transfer either CHM 130	EDU 272 Educational Psychology3 credit
or CHM 151, but not both; therefore, taking CHM 130	EDU 276 Managing the Learning Environment3 credit
and CHM 151 will not satisfy the 8-credit requirement.	EDU 291 Children's Literature3 credit
	ENL 291 Children's Literature3 credit
BIO 100 Biology Concepts	2. Plus, you must successfully complete all three courses:
BIO 105 Environmental Biology	CIS 105 Computer Applications and Information
BIO 160 Introduction to Human Anatomy	Technology3 credit
and Physiology I	POS 221 Arizona Constitution
BIO 181 General Biology I	POS 222 U.S. Constitution
BIO 182 General Biology II	
CHM 130 Fundamental Chemistry4 credit	3. Plus, successful completion of six credits of
CHM 151 General Chemistry I4 credit	unduplicated electives from the General Education
CHM 152 General Chemistry II	Requirements list.
GEO 111 Physical Geography4 credit	
GLG 101 Introduction to Geology I - Physical4 credit	Associate of Business (ABus)
GLG 102 Introduction to Geology II - Historical 4 credit	1 1000 CIRCO OI 20 MOINTENDO (1 110 MO)
PHY 113 General Physics I	About this Degree
PHY 114 General Physics II4 credit	About this Degree

About this Degree

No matter what field you may decide to pursue, it is helpful to begin with an understanding of business. The Associate of Business (ABus) degree is the foundation for many careers and a way to gain an edge and the critical knowledge it entails.

The NPC Associate of Business degree is a transfer degree.

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Social and Behavioral Sciences • 9 credits

Contemporary Global/International or

Historical Awareness.

Select three courses from at least two disciplines. Select

at least one asterisk (*) course to meet requirements for

The general education component of the ABus degree fulfills the Arizona General Education Curriculum (AGEC-B). When completed, the AGEC-B will transfer to the three public Arizona state universities as a block that meets all lower division general education requirements.

(see What is AGEC? - page 48)

NPC Requirements

- The Associate of Business (ABus) degree requires a minimum of 64 hours of course credits with a grade of "C" or better in all courses and a cumulative grade point average of 2.0 on a 4.0 scale.
- Graduates must complete CIS 105 and at least 33 general education credits.
- Some courses have placement requirements or prerequisites that may result in coursework beyond 64 credits. These courses, too, require a grade of "C" or better. For information about prerequisites, see an NPC academic adviser.
- In most general education courses, special emphasis is
 placed on developing written communication skills with
 intensive writing requirements. Race and ethnic issue
 awareness is embedded throughout the general education
 requirements. Specific courses, as noted, meet the
 requirement for Contemporary Global/International or
 Historical Awareness.

Degree Requirements • 64 credits

■ General Education Requirements • 36 credits

Completion of the **36** general education course credits fulfills requirements for the Arizona General Education Education Curriculum (AGEC-B) for the Associate of Business degree. (see What is AGEC? – page 48)

English • 6 credits

ENL 101 College Composition	I3 credit
ENL 102 College Composition	II3 credit

Mathematics • 4 credits

MAT 211 Technical Calculus4	credit
(Or MAT 221 or higher mathematics course for which	h
MAT 211 is a prerequisite)	

Arts and Humanities • 6 credits

Select two courses from two different disciplines:

ART 101 Understanding Art	3 credit
ART 115 Art History I	3 credit
ART 116 Art History II	3 credit
ENL 220 World Literature I	3 credit
ENL 221 World Literature II	3 credit
ENL 224 English Literature I	3 credit
ENL 225 English Literature II	3 credit
ENL 230 American Literature I	3 credit

ENL 231 American Literature II	credit
HUM 150 Humanities in the Western World I3	credit
HUM 151 Humanities in the Western World II3	credit
MUS 150 Music Appreciation	credit
PHL 101 Introduction to Philosophy3	credit
PHL 105 Introduction to Ethics	credit
SPT 130 Introduction to Theatre3	credit
SPT 150 Introduction to Film	credit
SPT 155 History of Television	credit

Physical and Biological Sciences • 8 credits

DIO 100 D: -1- --- C- ------

Select two courses. Students may transfer *either* CHM 130 or CHM 151, **but not both**; therefore, taking CHM 130 and CHM 151 will not satisfy the 8-credit requirement.

BIO 100 Biology Concepts4 credit
BIO 105 Environmental Biology4 credit
BIO 160 Introduction to Human Anatomy
and Physiology I4 credit
BIO 181 General Biology I4 credit
BIO 182 General Biology II4 credit
CHM 130 Fundamental Chemistry4 credit
CHM 151 General Chemistry I4 credit
CHM 152 General Chemistry II4 credit
GEO 111 Physical Geography4 credit
GLG 101 Introduction to Geology I - Physical4 credit
GLG 102 Introduction to Geology II - Historical4 credit
PHY 113 General Physics I4 credit
PHY 114 General Physics II4 credit

Social and Behavioral Sciences • 6 credits

Select two courses from at least two disciplines. Make at least one selection an asterisk (*) course to meet requirements for Contemporary Global/International or Historical Awareness.

*ANT 102 Cultural Anthropology	3	credit
ANT 120 Buried Cities and Lost Tribes	3	credit
BUS 140 Principles of Economics - Macro	3	credit
BUS 141 Principles of Economics - Micro	3	credit
*GEO 110 World Regional Geography	3	credit
GEO 120 Human Geography	3	credit
*HIS 105 U.S. History to 1877	3	credit
*HIS 106 U.S. History since 1877		
*HIS 155 Western Civilization to 1700	3	credit
*HIS 156 Western Civilization since 1700	3	credit
POS 110 American Government	3	credit
PSY 101 Introduction to Psychology	3	credit
PSY 200 Psychology of Adjustment	3	credit
PSY 240 Developmental Psychology	3	credit
SOC 120 General Sociology	3	credit
SOC 121 Social Problems in America	3	credit
SOC 130 Racial, Ethnic & Gender Relations		
in Modern Society	3	credit
SOC 225 Sociology of the Family	3	credit

Computer Science • 3 credits

CIS 105 Computer Applications and Information	
Technology	3 credit

General Electives Options • 3 credits

Select one additional course from either the Arts and Humanities or Social and Behavioral Sciences lists to satisfy the requirement of 36 general education credits.

■ Electives • 28 credits

Select elective courses from:

- 1. Courses identified as common courses in university transfer guides in the student's major of choice;
- 2. 0 to 16 credits of language, if required in the student's major of choice at the university you plan to attend;
- 3. Prerequisites
- 4. Electives

The electives component must consist of credits that transfer to all three public Arizona universities as defined in the Course Equivalency Guide for the year in which the course is completed. Access to information about degrees and pathways, common courses, Course Equivalency Guides, and Arizona college and university catalogs is available through an academic adviser or directly on the Internet at www.AZTransfer.com.

Associate of Science (AS) About this Degree

The Associate of Science (AS) degree helps develop comprehensive knowledge and good communications skills, while providing a firm grounding in mathematics and the natural sciences. An Associate of Science degree is foundational for students looking toward biological, health and medical undergraduate degrees. Students who plan on going into business, engineering or agriculture may also want to consider this degree.

The Associate of Science degree is a transfer degree designed for students planning to continue their education by transferring to one of the three Arizona public universities. The general education component of our AS degree fulfills all the requirements of the Arizona General Education Curriculum (AGEC-S). When completed, the AGEC-S will transfer to any of the three public Arizona state universities as a block meeting all lower division general education requirements. (see What is AGEC? – page 48)

NPC Requirements

- The Associate of Science (AS) degree requires a minimum of 64 hours of course credits with a grade of "C" or better in all courses and a cumulative grade point average of 2.0 on a 4.0 scale.
- Some courses have placement requirements or prerequisites that may result in coursework beyond 64 credits. These courses, too, require a grade of "C" or better. For information about prerequisites, see an NPC academic adviser.

• In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements. Specific courses, as noted, meet the requirement for Contemporary Global/International or Historical Awareness.

Degree Requirements • 64 credits

■ General Education Requirements • 36 credits

Completion of the 36 general education course credits fulfills requirements for the Arizona General Education Education Curriculum (AGEC-S) for the Associate of Science degree. (see What is AGEC? – page 48)

English • 6 credits

ENL	101	College	Composition	I3	credit
ENL	102	College	Composition	II3	credit

Mathematics • 4 credits

MAT 221 Calculus I (or a mathematics course for which MAT 221 is a prerequisite)4 credit

Arts and Humanities • 6 credits

Select two courses from at least two disciplines.

ART 101 Understanding Art	3 credit
ART 115 Art History I	3 credit
ART 116 Art History II	3 credit
ENL 220 World Literature I	3 credit
ENL 221 World Literature II	3 credit
ENL 224 English Literature I	3 credit
ENL 225 English Literature II	3 credit
ENL 230 American Literature I	3 credit
ENL 231 American Literature II	3 credit
HUM 150 Humanities in the Western World I3	3 credit
HUM 151 Humanities in the Western World II3	3 credit
MUS 150 Music Appreciation	3 credit
PHL 101 Introduction to Philosophy	3 credit
PHL 105 Introduction to Ethics	3 credit
SPT 130 Introduction to Theatre	3 credit
SPT 150 Introduction to Film	3 credit
SPT 155 History of Television	3 credit

Physical and Biological Sciences • 8 credits

Select two courses from the SAME discipline.

BIO 181 General Biology I 4 c	redit
BIO 182 General Biology II4 c	redit
CHM 151 General Chemistry I4 c	redit
CHM 152 General Chemistry II4 c	redit

Social and Behavioral Sciences • 6 credits

Select two courses from two different disciplines, with at least one asterisk (*) course to meet requirements for Contemporary Global/International or Historical Awareness.

*ANT 102 Cultural Anthropology3 credit

Page 54 Programs and Degrees

ANT 120 Buried Cities and Lost Tribes	3 credit
BUS 140 Principles of Economics - Macro	3 credit
BUS 141 Principles of Economics - Micro	3 credit
*GEO 110 World Regional Geography	3 credit
GEO 120 Human Geography	3 credit
*HIS 105 U.S. History to 1877	3 credit
*HIS 106 U.S. History since 1877	3 credit
*HIS 155 Western Civilization to 1700	3 credit
*HIS 156 Western Civilization since 1700	3 credit
POS 110 American Government	3 credit
PSY 101 Introduction to Psychology	3 credit
PSY 200 Psychology of Adjustment	
PSY 240 Developmental Psychology	3 credit
SOC 120 General Sociology	
SOC 121 Social Problems in America	3 credit
SOC 130 Racial, Ethnic & Gender Relations	
in Modern Society	3 credit
SOC 225 Sociology of the Family	3 credit

Science/Mathematics Option • 6 credits

Select two courses not taken to satisfy Physical and Biological Sciences requirements.

BIO 105 Environmental Biology4 credit
BIO 160 Introduction to Human Anatomy
and Physiology I4 credit
BIO 181 General Biology I4 credit
BIO 182 General Biology II4 credit
BIO 201 Human Anatomy and Physiology I4 credit
BIO 202 Human Anatomy and Physiology II4 credit
BIO 205 Microbiology4 credit
CHM 151 General Chemistry I4 credit
CHM 152 General Chemistry II4 credit
GEO 111 Physical Geography4 credit
GLG 101 Introduction to Geology I - Physical4 credit
GLG 102 Introduction to Geology II - Historical 4 credit
MAT 231 Calculus II4 credit
MAT 241 Calculus III4 credit
MAT 261 Introduction to Differential Equations 4 credit
PHY 113 General Physics I4 credit
PHY 114 General Physics II4 credit

■ Electives • 28 credits

Select elective courses from:

- Courses identified as common courses in university transfer guides in the student's major of choice;
- 2. 0 to 16 credits of language, if required in the student's major of choice at the university you plan to attend;
- 3. Prerequisites
- 4. The electives component must consist of credits that transfer to all three public Arizona universities as defined in the Course Equivalency Guide for the year in which the course is completed. Access to information about degrees and pathways, common courses, Course Equivalency Guides, and Arizona college and university catalogs is available through an academic adviser or directly on the Internet at www.AZTransfer.com.

Non-Transfer Degree Programs About the General Studies Degrees

The Associate of General Studies (AGS) Degree is designed for those who wish to enhance their personal development with the equivalent of two years of post-high school education but are not planning to transfer to a four-year college or university or prepare for a specific vocational career. The Associate of General Studies (AGS) degree is the most flexible of the degrees offered at NPC. With this degree you learn the basics of mathematics. English, science, history and a wide variety of other subjects, allowing you the chance to explore many different disciplines.

The AGS degree can provide you with recognized learning credentials. Completing the specializations in Early Childhood or Special Needs Educational Assistant provide a student the flexibility of meeting work-related course mandates while also pursuing general education courses that may serve as the foundation for a bachelor's degree.

Although many courses within these programs may transfer to four-year colleges and universities, students should not assume that all courses will transfer.

NPC Requirements

- The Associate of General Studies (AGS) degree requires 64 hours of course credits with a cumulative grade point average of 2.0 on a 4.0 scale.
- Students must complete 31 general education credits.
- Some courses have placement requirements or prerequisites that may result in coursework beyond the 64 credits. For information about prerequisites, see an NPC academic adviser.
- Students must meet with an NPC academic adviser to select a program of courses that will best meet the student's goals.
- Students with an associate or higher degree will not be considered for this program.
- In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements.

Degree Requirements • 64 credits

■ General Education Requirements • 31 credits

Completion of 31 general education course credits is required for the AGS degree.

English • 6 credits ENI. 101 College Composition I. 3 credit Plus one of the following: ENI. 102 College Composition II. 3 credit ENI. 103 Credits College Composition II. 3 credit Mathematics • 3 credits Select one of the following, or a higher mathematics course for which MAT 112 is a prerequisite. MAT 105 Mathematics for General Education. 3 credit MAT 112 Algebra III. Intermediate. 3 credit MAT 112 Algebra III. Intermediate. 3 credit ENI. 103 College Composition. 3 credit ■ Discipline Studies Arts and Humanities • 6 credits Select two courses from at least two disciplines. ART 101 Understanding Art. 3 credit ENI. 220 World Literature I. 3 credit ENI. 220 World Literature II. 3 credit ENI. 221 English Literature II. 3 credit ENI. 230 American Literature II. 3 credit ENI. 230 American Literature II. 3 credit ENI. 230 Mamerican Literature II. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 151 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit HUM 150 Humanities in the Western World III. 3 credit BIO 105 Environmental Biology Humanities in the Western World III. 3 credit BIO 105 Environmental Biology Humanities in the Western World III. 3 credit BIO 105 Environmental Biology Humanities in the Western World III. 3 credit BIO 105 Environmental Biology Humanities in the Western World III. 3 credit BIO 105 Environmental Biology Humanities in the Western World III. 3 credit BIO 105 Environmental Biology Humanities Humanities in the Western World III	Northand Florieer Con-	ege Catalog 2012 - 2013
Plus one of the following: ENL 102 College Composition II	English • 6 credits	*GEO 110 World Regional Geography3 credit
Plus one of the following: ENL 102 College Composition II. 3 credit ENL 109 Technical Writing. 3 credit Mathematics * 3 credits Select one of the following, or a higher mathematics course for which MAT 112 is a prerequisite. MAT 105 Mathematics for General Education. 3 credit MAT 112 Algebra II intermediate 3 credit ENL 109 Technical Writing. 3 credit AAT 116 Algebra II intermediate 3 credit ENL 201 Mathematics for General Education. 3 credit AAT 116 Algebra II intermediate 3 credit AAT 116 Algebra II intermediate 3 credit AAT 116 Art History I. 3 credit AAT 116 Art History I. 3 credit AAT 116 Art History II. 3 credit ENL 210 World Literature II. 3 credit ENL 220 World Literature II. 3 credit ENL 220 World Literature II. 3 credit ENL 225 English Literature II. 3 credit ENL 231 American Literature II. 3 credit ENL 231 American Literature II. 3 credit HUM 151 Humanities in the Western World II. 3 credit HUM 151 Humanities in the Western World II. 3 credit ENL 210 World Literature II. 3 credit ENL 230 American Literature II. 3 credit ENL 230 American Literature II. 3 credit ENL 231 American Literature II. 3 credit ENL 231 American Literature II. 3 credit ENL 231 Humanities in the Western World II. 3 credit HUM 151 Humanities in the Western World II. 3 credit ENT 135 Introduction to Film 3 credit END 185 General Biology I. 4 credit END 185 General Biology I. 4 credit END 185 General Biology II. 4 credit END 185 General Biology II	ENL 101 College Composition I3 credit	0 1 ,
ENL 109 Technical Writing		
##IS 159 Western Civilization to 1700		
Mathematics ** 3 credits Select one of the following, or a higher mathematics course for which MAT 112 is a prerequisite. MAT 112 Mathematics for General Education 3 credit MAT 112 Algebra II: Intermediate 3 credit PSV 200 Psychology of Adjustment 3 credit PSV 200 Psychology of Ad		
Select one of the following, or a higher mathematics course for which MAT 112 is a prerequisite. MAT 105 Marbematics for General Education 3 credit MAT 112 Algebra II: Intermediate 3 credit Societ two courses from at least two disciplines. ART 101 Understanding Art 3 credit ART 115 Art History II 3 credit EN 220 World Literature I 3 credit EN 222 World Literature I 3 credit EN 223 Charles and Enterture II 3 credit EN 223 Charles and Enterture II 3 credit EN 223 Charles and Enterture II 3 credit EN 223 American Literature II 3 credit EN 223 American Literature II 3 credit EN 233 American Literature II 3 credit EN 233 American Literature II 3 credit EN 234 Mareiran Literature II 3 credit EN 235 Individual Enterture II 4 credit EN 235 Individual Enterture III 4 credit EN 235 Individual Enterture II 4 credit EN 235 I		
MAT 112 is a percequisite. MAT 115 Mathematics for General Education 3 credit MAT 112 Algebra II: Intermediate 3 credit Soil Discipline Studies Arts and Humanities • 6 credits Select two courses from at least two disciplines. ART 101 Understanding Art. 3 credit ART 115 Art History I. 3 credit ENL 220 World Literature I 3 credit ENL 220 World Literature I 3 credit ENL 220 World Literature I 3 credit ENL 221 World Literature I 3 credit ENL 225 English Literature I 3 credit ENL 230 American Literature I 3 credit ENL 231 American Literature I 3 credit HUM 150 Humanities in the Western World II 3 credit PHL 101 Introduction to Philosophy 3 credit PHL 105 Introduction to Philosophy 3 credit PHL 101 Introduction to Philosophy 3 credit PHL 101 Introduction to Philosophy 3 credit PHL 105 Introduction to Philosophy 3 credit PHL 105 Introduction to Philosophy 3 credit PHL 105 Introduction to Philosophy 4 credit PHL 105 Introduction to Philosophy 3 credit PHL 105 Introduction to Philosophy 4 credit Physical and Biological Sciences • 4 credit BIO 105 Enwironmental Biology 4 credit GEO 111 Physical General Biology 1 credit GEN 111 Physical General Chemistry 4 credit GEN 111 Physical General Chemistry 4 credit GEN 111 Physical General Chemistry 4 credit GEN 111 Physical Georgaphy 4 credit GEN 111		
MAT 105 Mathematics for General Education 3 credit MAT 112 Algebra II: Intermediate 3 credit SC 20 (20 General Sociology. 3 credit SC 213 Ocala Problems in America. 3 credit SC 213 Scala Problems in America. 3 credit SC 213 General Sociology. 3 credit SC 213 Scala Froblems in America. 3 credit SC 213 Cacala Froblems in America. 3 credit SC 213 Scala Sc		
MAT 112 Algebra II: Intermediate	which MAT 112 is a prerequisite.	
■ Discipline Studies Arts and Humanities • 6 credits Select two courses from at least two disciplines. ART 101 Understanding Art	MAT 105 Mathematics for General Education3 credit	
Soc 130 Racial, Ethnic & Gender Relations Arts and Humanities • 6 credits Select two courses from at least two disciplines. ART 101 Understanding Art	MAT 112 Algebra II: Intermediate3 credit	- ·
Select two courses from at least two disciplines. ART 101 Understanding Art	■ Disciplina Studios	
Select two courses from at least two disciplines. ART 101 Understanding Art	-	
Courses marked with an asterisk (*) meet requirements for Contemporary Global/International or Historical Awareness. ART 101 Understanding Art. 3 credit ART 115 Art History I. 3 credit ENL 220 World Literature I. 3 credit ENL 224 World Literature II. 3 credit ENL 225 English Literature II. 3 credit ENL 225 English Literature II. 3 credit ENL 230 American Literature I. 3 credit ENL 231 American Literature I. 3 credit HUM 150 Humanities in the Western World II. 3 credit HUM 150 Humanities in the Western World II. 3 credit MUS 150 Music Appreciation 3 credit PHL 101 Introduction to Philosophy 3 credit SPT 130 Introduction to Theatre. 3 credit SPT 150 Introduction to Flim 3 credit SPT 151 Introduction to Flim 3 credit SPT 155 History of Television. 3 credit BIO 165 Environmental Biology 4 credit BIO 165 Environmental Biology 4 credit BIO 186 General Biology II. 4 credit CHM 150 General Chemistry I. 4 credit GEG 111 Physical Geography 4 credit GLO Introduction to Geology II. Historical. 4 credit GLO 101 Introduction to Geology II. Historical Acceptate GLO 2 Introduction to Geology II. Historical Acceptate GLO 2 Introduction to Geology II. 4 credit GLO 101 Introduction to Geology II. Historical Acceptate GLO 2 Introduction to Geology II. Historical Acceptate GL	Arts and Humanities • 6 credits	·
Courses marked with an asterisk (*) meet requirements for Contemporary Global/International or Historical Awareness. ART 115 Art History I	Select two courses from at least two disciplines.	
ART 115 Art History I		=
ART 116 Art History II. 3 credit ENL 220 World Literature I 3 credit ENL 224 English Literature II 3 credit ENL 225 English Literature II 3 credit ENL 225 English Literature II 3 credit ENL 230 American Literature II 3 credit HUM 150 Humanities in the Western World II 3 credit HUM 151 Humanities in the Western World II 3 credit PHL 101 Introduction to Philosophy 3 credit PHL 105 Introduction to Ethics 3 credit SPT 130 Introduction to Film 3 credit SPT 150 Introduction to Film 3 credit BIO 105 Environmental Biology 4 credit BIO 105 Environmental Biology 5 credit BIO 105 Environmental Biology 4 credit BIO 105 Environmental Biology 4 credit BIO 105 Environmental Biology 1 4 credit CHM 151 General Biology II 4 credit CHM 151 General Biology II 4 credit CHM 151 General Chemistry II 4 credit CHM 151 General Chemistry II 4 credit CHM 151 General Chemistry II 4 credit CHM 151 General Physics II 4 credit CHM 152 General Physics II 4 credit CHM 154 General Physics II 5 credit CHM 154 General Physics II 5 credit CHM 154 General Physics II 5 credit CHM 155 General Chemistry II 5 credit CHM 154 General Physics II 5 credit CHM 154 General Physics II 5 credit CHM 154 General Physics II 5 credit CHM 155 General Chemistry II 5 credit CHM 154 General Physics II 5 credit CHM 155 General Physics II 5 credit CHM 156 General Physics II 5 credit CHM 156 General Physics II 5 credit CHM 157 General Physics II 5 credit CHM 156 General Physics II 5 credit CHM 157 General Physics II 5 credit CHM 156 General Physics II 5 credit CHM 157 General Physics II 5 credit CHM 156 General Physics II 5 credit CHM 157 General Physics II 5 credit CHM 157 General Physics II 5 credit CHM 156 General Physics II 5 credit CHM 157 General Physics II 5 credit CHM 158 General P	9	Contemporary Global/International or Historical Awareness.
ENL 220 World Literature I		Additional Discipline Studies • 6 credits
ENL 221 World Literature II		-
ENL 224 English Literature I		=
ENL 235 English Literature II		Studies courses, or from these courses.
ENL 230 American Literature I		Foreign Language
ENL 231 American Literature II		
HUM 150 Humanities in the Western World I. 3 credit HUM 151 Humanities in the Western World II. 3 credit MUS 150 Music Appreciation. 3 credit PHL 101 Introduction to Philosophy. 3 credit PHL 105 Introduction to Ethics. 3 credit SPT 130 Introduction to Ethics. 3 credit SPT 150 Introduction to Film. 3 credit BIO 100 Biology Concepts. 4 credit BIO 105 Environmental Biology. 4 credit BIO 181 General Biology I. 4 credit BIO 182 General Biology II. 4 credit CHM 151 General Chemistry I. 4 credit CHM 152 General Chemistry I. 4 credit GEO 111 Physical Geography. 4 credit GEO 111 Physical Geography. 4 credit GEO 102 Introduction to Geology II - Historical 4 credit PHY 113 General Physics I. 4 credit PHY 114 General Physics I. 4 credit PHY 115 General Physics I. 5 credit PHY 116 General Physics I. 4 credit PHY 117 General Physics I. 5 credit PHY 118 General Physics I. 5 credit PHY 119 General Physics I. 5 credit PHY 110 Cultural Anthropology. 3 credit Select two courses from two disciplines. 4 credit PHY 110 Cultural Anthropology. 3 credit ANT 102 Cultural Anthropology. 3 credit ANT 102 Cultural Anthropology. 3 credit BUS 140 Principles of Economics - Macro. 3 credit BUS 140 Principles of Economics - Macro. 3 credit BUS 140 Principles of Economics - Macro. 3 credit BUS 140 Principles of Economics - Macro. 3 credit BUS 140 Principles of Economics - Macro. 3 credit BUS 140 Principles of Economics - Macro. 3 credit BUS 140 Principles of Economics - Macro. 3 credit		•
HUM 151 Humanities in the Western World II 3 credit MUS 150 Music Appreciation 3 credit PHL 101 Introduction to Philosophy 3 credit PHL 105 Introduction to Ethics 3 credit SPT 130 Introduction to Theatre 3 credit SPT 150 Introduction to Film 3 credit BIO 100 Biology Concepts 4 credit BIO 105 Environmental Biology 4 credit BIO 181 General Biology I. 4 credit CHM 130 Fundamental Chemistry 4 credit CHM 151 General Chemistry 4 credit GHM 152 General Chemistry I 4 credit GHM 152 General Chemistry I 4 credit GHM 151 General Chemistry I 4 credit GHM 152 General Chemistry I 4 credit GHM 151 General Chemistry I 5 credit GHM 152 General Flysical 4 credit GHM 154 General Chemistry I 6 credit GHM 155 General Chemistry I 7 credit GHM 150 General Chemistry I 1 6 credit GHM 151 General Chemistry I 1 6 credit GHM 152 General Flysical 6 credits GHM 152 General Studies Computer Science CIS 105 Computer Applications and Information Technology 7 credit SPT 120 Public Speaking 3 credit Select from any unduplicated courses at the 100 or higher level. Associate of General Studies Early Childhood Infant/Toddler About this Degree The AGS Early Childhood Infant/Toddler degree requires satisfactory completion of 64 credits. NPC Requirements The Acsedit SPA 101 Elementary Spanish II 6 credit SPA 101 Elementary Spanish II		
MUS 150 Music Appreciation 3 credit PHL 101 Introduction to Philosophy 3 credit PHL 105 Introduction to Philosophy 3 credit SPT 130 Introduction to Ethics 3 credit SPT 130 Introduction to Film 3 credit SPT 150 Introduction to Film 3 credit SPT 1510 Introduction to Film 3 credit SPT 150 Introduction to Film 3 credit SPT 120 Public Speaking 1 credit Technology. SPT 12		
PHL 101 Introduction to Philosophy		
PHL 105 Introduction to Ethics		
SPT 130 Introduction to Theatre	- · · · · · · · · · · · · · · · · · · ·	
SPT 150 Introduction to Film		Computer Science
Technology		CIS 105 Computer Applications and Information
Physical and Biological Sciences • 4 credits BIO 100 Biology Concepts		Technology
BIO 100 Biology Concepts 4 credit BIO 105 Environmental Biology 4 credit BIO 105 Environmental Biology 4 credit BIO 106 Introduction to Human Anatomy and Physiology I. 4 credit BIO 181 General Biology II. 4 credit CHM 130 Fundamental Chemistry I. 4 credit CHM 151 General Chemistry II. 4 credit GEO 111 Physical Geography 4 credit GLG 101 Introduction to Geology I - Physical. 4 credit GLG 102 Introduction to Geology II - Historical 4 credit GHY 113 General Physics I 4 credit GHY 114 General Physics I 4 credit PHY 115 General Physics I 4 credit PHY 116 General Physics I 5 credit Social and Behavioral Sciences 6 credits Select two courses from two disciplines. *ANT 102 Cultural Anthropology 3 credit BUS 140 Principles of Economics - Macro 3 credit *Acredit **Introduction to Geology I - Physical 4 credit CHM 151 General Physics I 5 credit A credit CHM 152 General Chemistry II 5 credit CHM 153 General Chemistry II 6 credit CHM 154 General Chemistry II 7 credit CHM 155 General Chemistry II 7 credit CHM 156 General Studies **Associate of General Studies **About this Degree The AGS Early Childhood Infant/Toddler degree requires satisfactory completion of 64 credits. **NPC Requirements **The Associate of General Studies (AGS) Early Childhood Infant/Toddler degree requires 64 hours of course credits with a cumulative grade point average of		Verbal Communication
BIO 105 Environmental Biology		
BIO 160 Introduction to Human Anatomy and Physiology I		2
and Physiology I		■ Unrestricted Electives • 33 credits
and Physiology I	•	Select from any unduplicated courses at the 100 or higher level.
BIO 182 General Biology II		
CHM 130 Fundamental Chemistry		A
CHM 151 General Chemistry I		Associate of General Studies
CHM 152 General Chemistry II	·	Forty Childhood
GEO 111 Physical Geography		Larry Childhood
GLG 101 Introduction to Geology I - Physical		Infant/Toddler
ADOUT This Degree PHY 113 General Physics I		initiality roddier
PHY 113 General Physics I		Ahout this Degree
PHY 114 General Physics II		_
Social and Behavioral Sciences • 6 credits Select two courses from two disciplines. *ANT 102 Cultural Anthropology		
Select two courses from two disciplines. *ANT 102 Cultural Anthropology		satisfactory completion of 64 credits.
*ANT 102 Cultural Anthropology	Social and Behavioral Sciences • 6 credits	NDC Doguiromanta
ANT 120 Buried Cities and Lost Tribes	Select two courses from two disciplines.	NPG Requirements
ANT 120 Buried Cities and Lost Tribes	*ANT 102 Cultural Anthropology3 credit	 The Associate of General Studies (AGS) Early
BUS 140 Principles of Economics - Macro		Childhood Infant/Toddler degree requires 64 hours of
	BUS 140 Principles of Economics - Macro3 credit	
		2.0 on a 4.0 scale.

.....3 credit credits the 100 or higher level. al Studies dler degree requires (AGS) Early e requires 64 hours of grade point average of 2.0 on a 4.0 scale. Programs and Degrees

- Students must complete 31 or 32 general education credits.
- Some courses have placement requirements or prerequisites that may result in coursework beyond the 64 credits. For information about prerequisites, see an NPC academic adviser.
- Students must meet with an NPC academic adviser to select a program of courses that will best meet the student's goals.
- Students with an associate or higher degree will not be considered for this program.
- In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements.

Degree Requirements • 64 credits

■ General Education Requirements • 31 credits

Completion of the 31 general education course credits is required for the AGS degree.

English • 6 credits

ENL 101 College Composition I3 credit
Plus one of the following:
ENL 102 College Composition II3 credit
ENL 109 Technical Writing3 credit

Mathematics • 3 credits

Select one of the following, or a higher mathematics course for which MAT 112 is a prerequisite.

MAT 105 Mathematics for General Education3 cr	edit
MAT 112 Algebra II: Intermediate3 cr	edit

■ Discipline Studies

Arts and Humanities • 6 credits

Select two courses from at least two disciplines.

ART 101 Understanding Art3 credit
ART 115 Art History I3 credit
ART 116 Art History II3 credit
ENL 220 World Literature I
ENL 221 World Literature II
ENL 224 English Literature I
ENL 225 English Literature II
ENL 230 American Literature I3 credit
ENL 231 American Literature II3 credit
HUM 150 Humanities in the Western World I3 credit
HUM 151 Humanities in the Western World II3 credit
MUS 150 Music Appreciation 3 credit
PHL 101 Introduction to Philosophy3 credit
PHL 105 Introduction to Ethics

SPT 130 Introduction to Theatre	3 credit
SPT 150 Introduction to Film	3 credit
SPT 155 History of Television	3 credit

Physical and Biological Sciences • 4 credits

•	, e	
	BIO 100 Biology Concepts	4 credit
	BIO 105 Environmental Biology	4 credit
	BIO 160 Introduction to Human Anatomy	
	and Physiology I	4 credit
	BIO 181 General Biology I	4 credit
	BIO 182 General Biology II	4 credit
	CHM 130 Fundamental Chemistry	4 credit
	CHM 151 General Chemistry I	4 credit
	CHM 152 General Chemistry II	4 credit
	GEO 111 Physical Geography	4 credit
	GLG 101 Introduction to Geology I - Physical	4 credit
	GLG 102 Introduction to Geology II - Historical.	4 credit
	PHY 113 General Physics I	4 credit
	PHY 114 General Physics II	4 credit

Social and Behavioral Sciences • 6 credits

Select two courses from two disciplines.

	*ANT 102 Cultural Anthropology	.3	credit
	ANT 120 Buried Cities and Lost Tribes	.3	credit
	BUS 140 Principles of Economics - Macro	.3	credit
	BUS 141 Principles of Economics - Micro	.3	credit
	*GEO 110 World Regional Geography	.3	credit
	GEO 120 Human Geography		
	*HIS 105 U.S. History to 1877		
	*HIS 106 U.S. History since 1877		
	*HIS 155 Western Civilization to 1700	.3	credit
	*HIS 156 Western Civilization since 1700		
	POS 110 American Government	.3	credit
	PSY 101 Introduction to Psychology	.3	credit
	PSY 200 Psychology of Adjustment		
	PSY 240 Developmental Psychology		
	SOC 120 General Sociology	.3	credit
	SOC 121 Social Problems in America	.3	credit
	SOC 130 Racial, Ethnic & Gender Relations		
	in Modern Society	.3	credit
	SOC 225 Sociology of the Family	.3	credit
π	urses marked with an asterisk (*) meet requirements	fo	r
	01.1.1/T		

Contemporary Global/International or Historical Awareness.

Additional Discipline Studies • 6 credits

Select a minimum of six additional credits from the Discipline Studies courses, or from these courses.

Foreign Language

FRE 101 Elementary French I	4 credit
FRE 102 Elementary French II	4 credit
GER 101 Elementary German I	4 credit
GER 102 Elementary German II	4 credit
SPA 101 Elementary Spanish I	4 credit
SPA 102 Elementary Spanish II	4 credit

Page 57 Programs and Degrees

Computer Science **Associate of General Studies** CIS 105 Computer Applications and Information **Early Childhood Management** Verbal Communication **About this Degree** The AGS Early Childhood Management degree requires satisfactory completion 66 credits. ■ Core Requirements • 29 credits **NPC** Requirements The Associate of General Studies (AGS) Early ECD 103 Planned Arrangements and Schedules..... 1 credit Childhood Management degree requires 66 hours of ECD 108 Techniques for Observing Children 1 credit course credits with a cumulative grade point average of ECD 110 Building Relationships with Parents 2.0 on a 4.0 scale. Through Communication......1 credit Students must complete 31 general education credits. Some courses have placement requirements or ECD 143 Inclusion of Children prerequisites that may result in coursework beyond the With Special Needs......2 credit 66 credits. For information about prerequisites, see an ECD 154 Environments for Infants and Toddlers...1 credit NPC academic adviser. ECD 155 Curriculum and Learning Materials Students must meet with an NPC academic adviser to select a program of courses that will best meet the ECD 156 Curriculum and Learning Materials student's goals. for Toddlers 1 credit Students with an associate or higher degree will not be ECD 158 Developing and Utilizing Observations considered for this program. Skills in Infant and Toddler Programs 1 credit ECD 159 Recordkeeping Skills In most general education courses, special emphasis is placed on developing written communication skills with ECD 163 Cognitive Development intensive writing requirements. Race and ethnic issue of Infants and Toddlers......1 credit awareness is embedded throughout the general education ECD 164 Practical Applications of Cognitive requirements. **Degree Requirements • 66 credits** ECD 165 Language Development of Infants ■ General Education Requirements ECD 166 Encouraging Autonomy and • 31 credits ECD 167 Guidance and Discipline of Infants Completion of 31 general education course credits is required for the AGS degree. ECD 168 Enhancing Social Competence English • 6 credits ENL 101 College Composition I3 credit ECD 169 Sensorimotor Learning in Infancy Plus one of the following: ECD 172 Physical Development in Infancy ENL 109 Technical Writing......3 credit and Toddlerhood......1 credit ECD 101 The Child's Total Learning Environment 1 credit Mathematics • 3 credits Select one of the following, or a higher mathematics course for ECD 200 Introduction to Early Childhood which MAT 112 is a prerequisite. MAT 105 Mathematics for General Education......3 credit ECD 250 Child Development I......3 credit MAT 112 Algebra II: Intermediate......3 credit ■ Required Electives • 4 credits ■ Discipline Studies Four credits of unduplicated electives must be taken from any Arts and Humanities • 6 credits area (with the exception of 199s and 299s). Select two courses from at least two disciplines. ART 101 Understanding Art......3 credit ART 115 Art History I......3 credit

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ART 116 Art History II3 credit	■ Additional Discipline Studies • 6 credits
ENL 220 World Literature I	Select a minimum of six additional credits from the Discipline
ENL 221 World Literature II	Studies courses, or from these courses.
ENL 224 English Literature I	
ENL 225 English Literature II	Foreign Language
ENL 230 American Literature I	FRE 101 Elementary French I4 credit
ENL 231 American Literature II	FRE 102 Elementary French II4 credit
HUM 150 Humanities in the Western World I3 credit	GER 101 Elementary German I4 credit
HUM 151 Humanities in the Western World II3 credit	GER 102 Elementary German II4 credit
MUS 150 Music Appreciation	SPA 101 Elementary Spanish I
PHL 101 Introduction to Philosophy	SPA 102 Elementary Spanish II4 credit
PHL 105 Introduction to Ethics	Computer Science
SPT 130 Introduction to Theatre	CIS 105 Computer Applications and Information
SPT 150 Introduction to Film	Technology
SPT 155 History of Television3 credit	Verbal Communication
Physical and Biological Sciences • 4 credits	
BIO 100 Biology Concepts	SPT 120 Public Speaking3 credit
BIO 105 Environmental Biology4 credit	■ Core Requirements • 35 credits
BIO 160 Introduction to Human Anatomy	ECD 100 Providing a Healthy Environment
and Physiology I	ECD 102 Ensuring a Safe Environment1 credit
BIO 181 General Biology I	ECD 103 Planned Arrangements and Schedules1 credit
BIO 182 General Biology II	ECD 105 Guidance Principles for Encouraging
CHM 130 Fundamental Chemistry	Self Discipline
CHM 151 General Chemistry I4 credit	ECD 108 Techniques for Observing Children 1 credit
CHM 152 General Chemistry II4 credit	ECD 110 Building Relationships with Parents
GEO 111 Physical Geography	Through Communication1 credit
GLG 101 Introduction to Geology I - Physical4 credit	ECD 111 Supporting the Growth and Education
GLG 102 Introduction to Geology II - Historical 4 credit	of Parents1 credi
PHY 113 General Physics I	ECD 112 Enhancing Family Involvement1 credit
PHY 114 General Physics II4 credit	ECD 120 Enhancing a Positive Self-Concept
Social and Behavioral Sciences • 6 credits	ECD 128 Incorporating the Children's Culture1 credit
Select two courses from two disciplines.	ECD 129 Planning and Implementing a
*ANTT 102 () 1, 1 A .1 1 2 15.	Bilingual Program1 credi
*ANT 102 Cultural Anthropology	ECD 136 Understanding How Children Learn 1 credit
ANT 120 Buried Cities and Lost Tribes	ECD 175 Professionalism1 credit
BUS 140 Principles of Economics - Macro	ECD 198 Internship
BUS 141 Principles of Economics - Micro	(Early Childhood Management)1 credit
*GEO 110 World Regional Geography	ECD 200 Introduction to Early Childhood
GEO 120 Human Geography	Education3 credit
*HIS 105 U.S. History to 1877	ECD 201 Exploring Early Childhood
*HIS 106 U.S. History since 1877	Program Philosophies1 credit
*HIS 155 Western Civilization to 1700	ECD 211 Providing Food and Nutrition Services 1 credit
*HIS 156 Western Civilization since 1700	ECD 231 Planning and Managing an Early
POS 110 American Government	Childhood Program2 credit
PSY 101 Introduction to Psychology	ECD 232 Designing Indoor and Outdoor
PSY 200 Psychology of Adjustment	Environments2 credit
PSY 240 Developmental Psychology	ECD 233 Developing Policies and Procedures for Early
SOC 120 General Sociology	Childhood Programs
SOC 121 Social Problems in America	ECD 234 Staffing an Early Childhood Program 2 credit
SOC 130 Racial, Ethnic & Gender Relations	ECD 235 Budgeting and Financial Management2 credit
in Modern Society	ECD 236 Marketing the Early Childhood Program 2 credit
SOC 225 Sociology of the Family	ECD 237 Evaluating an Early Childhood Program.1 credit
Courses marked with an asterisk (*) meet requirements for	ECD 250 Child Development I3 credit
Contemporary Global/International or Historical Awareness.	

Associate of General Studies Early Childhood Preschool About this Degree

The AGS Early Childhood Preschool degree requires satisfactory completion 64 credits.

NPC Requirements

- The Associate of General Studies (AGS) Early Childhood Preschool degree requires 64 hours of course credits with a cumulative grade point average of 2.0 on a 4.0 scale.
- Students must complete 31 general education credits.
- Some courses have placement requirements or prerequisites that may result in coursework beyond the 64 credits. For information about prerequisites, see an NPC academic adviser.
- Students must meet with an NPC academic adviser to select a program of courses that will best meet the student's goals.
- Students with an associate or higher degree will not be considered for this program.
- In most general education courses, special emphasis is
 placed on developing written communication skills with
 intensive writing requirements. Race and ethnic issue
 awareness is embedded throughout the general education
 requirements.

Degree Requirements • 64 credits

■ General Education Requirements • 31 credits

Completion of 31 general education course credits is required for the AGS degree.

English • 6 credits

ENL 101 College Composition I	credit
Plus one of the following:	
ENL 102 College Composition II	credit
ENI, 109 Technical Writing	credit

Mathematics • 3 credits

Select one of the following, or a higher mathematics course for which MAT 112 is a prerequisite.

MAT 105	Mathematics for General Education	3 credit
MAT 112	Algebra II: Intermediate	3 credit

■ Discipline Studies

Arts and Humanities • 6 credits

Select two courses from at least two disciplines.

ART 101 Understanding Art	3	credit
ART 115 Art History I	3	credit

ART 116 Art History II	3 credit
ENL 220 World Literature I	3 credit
ENL 221 World Literature II	3 credit
ENL 224 English Literature I	3 credit
ENL 225 English Literature II	3 credit
ENL 230 American Literature I	3 credit
ENL 231 American Literature II	3 credit
HUM 150 Humanities in the Western World I	3 credit
HUM 151 Humanities in the Western World II	3 credit
MUS 150 Music Appreciation	3 credit
PHL 101 Introduction to Philosophy	3 credit
PHL 105 Introduction to Ethics	3 credit
SPT 130 Introduction to Theatre	
SPT 150 Introduction to Film	
SPT 155 History of Television	3 credit
Physical and Biological Sciences • 4 credit	s
BIO 100 Biology Concepts	4 credit
BIO 105 Environmental Biology	4 credit
BIO 160 Introduction to Human Anatomy	
and Physiology I	4 credit
BIO 181 General Biology I	
BIO 182 General Biology II	4 credit

CHM 130 Fundamental Chemistry4 credit

CHM 151 General Chemistry I......4 credit

CHM 152 General Chemistry II4 credit

GEO 111 Physical Geography......4 credit

GLG 101 Introduction to Geology I - Physical.......4 credit

PHY 114 General Physics II4 credit

Social and Behavioral Sciences • 6 credits

Select two courses from two disciplines.

Select two courses from two disciplines.		
*ANT 102 Cultural Anthropology		
ANT 120 Buried Cities and Lost Tribes3 credit		
BUS 140 Principles of Economics - Macro3 credit		
BUS 141 Principles of Economics - Micro3 credit		
*GEO 110 World Regional Geography3 credit		
GEO 120 Human Geography3 credit		
*HIS 105 U.S. History to 18773 credit		
*HIS 106 U.S. History since 18773 credit		
*HIS 155 Western Civilization to 17003 credit		
*HIS 156 Western Civilization since 17003 credit		
POS 110 American Government3 credit		
PSY 101 Introduction to Psychology3 credit		
PSY 200 Psychology of Adjustment3 credit		
PSY 240 Developmental Psychology3 credit		
SOC 120 General Sociology3 credit		
SOC 121 Social Problems in America3 credit		
SOC 130 Racial, Ethnic & Gender Relations		
in Modern Society3 credit		
SOC 225 Sociology of the Family3 credit		
Courses marked with an asterisk (*) meet requirements for		
Contemporary Global/International or Historical Awareness.		

Page 60 Programs and Degrees

■ Additional Discipline Studies • 6 credits

Select a minimum of six additional credits from the Discipline Studies courses, or from these courses.

Foreign Language
FRE 101 Elementary French I4 credit
FRE 102 Elementary French II4 credit
GER 101 Elementary German I4 credi
GER 102 Elementary German II4 credi
SPA 101 Elementary Spanish I4 credit
SPA 102 Elementary Spanish II4 credi
Computer Science
CIS 105 Computer Applications and Information
Technology
Verbal Communication
SPT 120 Public Speaking3 credit
■ Core Requirements • 29 credits

ECD 101 The Child's Total Learning Environment 1 credit ECD 102 Ensuring a Safe Environment...... 1 credit

ECD 103 Planned Arrangements and Schedules..... 1 credit

ECD 100 Providing a Healthy Environment............ 1 credit

ECD 105 Guidance Principles for Encouraging

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ECD 136 Understanding How Children Learn...... 1 credit

EDU 200 Introduction to Education......3 credit

ECD 200 Introduction to Early Childhood

■ Required Electives • 4 credits

Complete four credits from the following:

Any ECD courses not listed above in required core credits, with the exception of ECD 199's and ECD 299's.

EDU 200 Introduction to Education	
(if not taken as part of core)3	credit
EDU 201 Substitute Teaching in the Schools3	credit
LAN 120 Conversational Navajo I	credit
LAN 121 Conversational Navajo II3	credit
LAN 125 Conversational Apache I3	credit
LAN 126 I Conversational Apache II3	credit
LAN 160 Beginning American Sign Language3	credit
LAN 161 Intermediate American Sign Language3	credit
POS 221 Arizona Constitution and Government 1	credit

Associate of General Studies Special Needs Educational Assistant About this Degree

The AGS Special Needs Educational Assistant degree requires satisfactory completion 64 credits.

NPC Requirements

- The Associate of General Studies (AGS) Special Needs Educational Assistant degree requires 64 hours of course credits with a cumulative grade point average of 2.0 on a 4.0 scale.
- Students must complete 31 general education credits.
- Some courses have placement requirements or prerequisites that may result in coursework beyond the 64 credits. For information about prerequisites, see an NPC academic adviser.
- Students must meet with an NPC academic adviser to select a program of courses that will best meet the student's goals.
- Students with an associate or higher degree will not be considered for this program.
- In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements.

Degree Requirements • 64 credits

■ General Education Requirements

• 31 credits

Completion of the 31 to 32 general education course credits is required for the AGS degree.

English • 6 credits	*GEO 110 World Regional Geography3 credit
ENL 101 College Composition I3 credit	GEO 120 Human Geography3 credit
Plus one of the following:	*HIS 105 U.S. History to 18773 credit
ENL 102 College Composition II3 credit	*HIS 106 U.S. History since 18773 credit
ENL 109 Technical Writing3 credit	*HIS 155 Western Civilization to 17003 credit
Mathematics • 3 credits	*HIS 156 Western Civilization since 17003 credit
	POS 110 American Government3 credit
Select one of the following, or a higher mathematics course for	PSY 101 Introduction to Psychology3 credit
which MAT 112 is a prerequisite.	PSY 200 Psychology of Adjustment3 credit
MAT 105 Mathematics for General Education3 credit	PSY 240 Developmental Psychology3 credit
MAT 112 Algebra II: Intermediate3 credit	SOC 120 General Sociology3 credit
	SOC 121 Social Problems in America3 credit
■ Discipline Studies	SOC 130 Racial, Ethnic & Gender Relations
Arts and Humanities • 6 credits	in Modern Society
Select two courses from at least two disciplines.	SOC 225 Sociology of the Family
ART 101 Understanding Art3 credit	Courses marked with an asterisk (*) meet requirements for
ART 115 Art History I3 credit	Contemporary Global/International or Historical Awareness.
ART 116 Art History II3 credit	■ Additional Discipline Studies • 6 credits
ENL 220 World Literature I 3 credit	Select a minimum of six additional credits from the discipline
ENL 221 World Literature II 3 credit	study courses, or from these courses.
ENL 224 English Literature I 3 credit	Foreign Language
ENL 225 English Literature II	FRE 101 Elementary French I4 credit
ENL 230 American Literature I	FRE 102 Elementary French II4 credit
ENL 231 American Literature II	GER 101 Elementary German I4 credit
HUM 150 Humanities in the Western World I3 credit	GER 102 Elementary German II4 credit
HUM 151 Humanities in the Western World II3 credit	SPA 101 Elementary Spanish I4 credit
MUS 150 Music Appreciation3 credit	SPA 102 Elementary Spanish II4 credit
PHL 101 Introduction to Philosophy 3 credit	Computer Science
PHL 105 Introduction to Ethics	CIS 105 Computer Applications and Information
SPT 130 Introduction to Theatre3 credit	
SPT 150 Introduction to Film3 credit	Technology
SPT 155 History of Television3 credit	Verbal Communication
	SPT 120 Public Speaking3 credit
Physical and Biological Sciences • 4 credits	■ Core Requirements • 21 credits
BIO 100 Biology Concepts	ECD 136 Understanding How Children Learn1 credit
BIO 105 Environmental Biology4 credit	ECD 222 Young Children with Special Needs 3 credit
BIO 160 Introduction to Human Anatomy	ECD 200 Introduction to Early Childhood
and Physiology I	Education3 credit
BIO 181 General Biology I	or
BIO 182 General Biology II	EDU 200 Introduction to Education3 credit
CHM 130 Fundamental Chemistry	ECD 250 Child Development I3 credit
CHM 151 General Chemistry I	EDU 198 Internship
CHM 152 General Chemistry II	(Occupational/Physical Therapy)1 credit
GEO 111 Physical Geography	EDU 198 Internship (Speech Therapy)1 credit
GLG 101 Introduction to Geology I - Physical4 credit	EDU 202 Occupational/Physical Therapy
GLG 102 Introduction to Geology II - Historical 4 credit	Educational Assistant3 credit
PHY 113 General Physics I	EDU 203 Speech Therapy Educational Assistant3 credit
PHY 114 General Physics II4 credit	LAN 160 Beginning American Sign Language3 credit
Social and Behavioral Sciences • 6 credits	■ Required Electives • 12 credits
Select two courses from two disciplines.	Select 12 unduplicated credits, 100 level or higher,
*ANT 102 Cultural Anthropology3 credit	from ECD/EDU/EMT/LAN/SPA courses as electives.
ANT 120 Buried Cities and Lost Tribes3 credit	

Index of AGS/AAS/CAS/CP Programs

 $AGS \cdot Associate \ of \ General \ Studies \ \bullet \ AAS \cdot Associate \ of \ Applied \ Science \ \bullet \ CAS \cdot Certificate \ of \ Applied \ Science \ of \ Applied \ Openham \ Openham \ of \ Applied \ Openham \ Openham \ of \ Openham \ openham \ of \ openham \$

CP - Certificate of Proficiency • CRT - Certificate of Completion

Program Awards	Program Awards
Administrative Information Services (AIS)	Education (EDU)
Administrative Information Services AAS/CAS/CP	Educational Assistant
Administrative Office Management	Special Needs Educational Assistant . AGS/AAS/CAS/CP
Legal Office	
Legal Office Fundamentals	Fire Science
Medical Office Fundamentals	H Ei
Medical Office Procedures	Heavy Equipment Operations (HQO)
Medical Transcription AAS/CAS/CP	Cranes & Rigging
Modern Office Fundamentals	Earthmoving Equipment and Trucks
Records and Information Management	Loaders and Forklifts
Records Management/Data Processing Fundamentals	Motor Graders
word Processing Pundamentals	Rollers and Scrapers
Automotive Technology (ATO)	Human Services (HUS)
Brake and Transmission Systems	Residential Child/Youth Care Assistant AAS/CAS/CP
Drive Train, Suspension and Steering, HVAC	Substance Abuse Counseling
Engine Performance	
Engine Repair	Industrial Maintenance and Operations
Engine Repuir	Electrical
Business (BUS)	Industrial Plant Operation
Accounting	Instrumentation
General Business Management AAS/CAS/CP	Mechanical Maintenance
Native American Enterprise	Operations/Maintenance
Public Administration AAS/CAS/CP	Power Fundamentals
Small Business Management AAS/CAS/CP	Wastewater Collection and Treatment
0 (070)	Water Supply and Treatment
Computer Information Systems (CIS)	
Commercial Graphics Fundamentals	Medical Assistant (MDA)
Computer Information Systems	Nursing (NUR)
Network and PC Support	Practical Nursing
Software Quality Assurance	Tractical reducing
Web Design	Nursing Assistant (NAT)
Web Development	
	Paramedicine (EMT) AAS/CAS/CP
Cosmetology (COS) AAS/CAS/CP	Photography Technician (PHO)
Cosmetology Instructor	Black and White Photography
Nail Technician	Color Photography
Early Childhood Development (ECD)	Photography Marketing
Early Childhood Management AGS/AAS/CAS	
Family Care	Welding (WLD)
Infant/Toddler AGS/AAS/CAS/CP	Gas Metal Arc Welding (MIG)
Preschool AGS/AAS/CAS/CP	Gas Tungsten Arc Welding (TIG)
School Age	Shielded Metal Arc Welding (ARC)
Special Needs	Welding Level I – Entry Level Welder
	Welding Level II - Advanced Welder

Applied Science Degree and Certificate Programs

About these Degrees/Certificates

- Associate of Applied Science (AAS) degrees are awarded at the completion of programs designed to prepare the graduate for employment.
- Certificates of Applied Science (CAS) are awarded upon completion of specific program courses designed for employment skills.
- **Certificates of Proficiency (CP)** are awarded for some shorter programs with a narrow focus to prepare students for specific employment-related skills.
- Certificates of Completion (CRT) are awarded for the fulfillment of competency requirements in certain occupation-specific courses.

It should be noted that all applied science degree or certificate programs are not available at all Northland locations, nor are they available in their entirety each year. Some courses are offered only on demand. All NPC applied science programs are "competency based," providing graduates with the skills necessary for entry-level employment.

Although many courses within these programs may transfer to four-year colleges and universities, students should not assume that all courses will transfer.

NPC Requirements

- The Associate of Applied Science (AAS) degree requires a minimum of 64 hours of course credits with a cumulative grade point average of 2.0 on a 4.0 scale.
- Some courses have placement requirements or prerequisites that may result in coursework beyond 64 credits. These courses, too, require a grade of "C" [or "P"] or better. For information about prerequisites, see Part IV, Course Descriptions, or consultan NPC academic adviser.
- The **Certificate of Applied Science** requires a minimum of 24 credits in a single area of specialization and six specified units of general education.
- Certificate of Proficiency requirements vary according to the skills demanded for training or retraining in occupational fields. Only programs totaling 32, or more, credit hours are recognized at commencement. Certificates of Proficiency are posted on the student's transcript.
- Certificate of Completion may be awarded for achieving the competencies required in some courses with a 'C' grade or higher. These certificates are utilized only for courses which have recognizable and special benefit

- for the student. Certificates are issued upon completion of the specified courses.
- In most general education courses, special emphasis is placed on developing written communication skills with intensive writing requirements. Race and ethnic issue awareness is embedded throughout the general education requirements.

Students are encouraged to work closely with their academic adviser to ensure that all studies will apply toward their degree or educational goals.

Degree Requirements • 64 credits

■ General Education Requirements

Most programs require 16 to 19 general education credits in communications, mathematics, sciences and humanities. Specific programs may designate or limit course options, and general education requirements in certain programs may exceed 19 credits. Always consult with an NPC academic adviser to ensure you meet ALL program/degree requirements.

Communications • 6 credits

ENL 101 College Composition I	3 credit
Plus one of the following based on program of	options.:
ENL 102 College Composition II	3 credit
ENL 109 Technical Writing	3 credit
SPT 120 Public Speaking	3 credit

Mathematics • 3 to 6 credits

See specific program for requirements.

Discipline Studies • 7 credits

Select one course from the Physical and Biological Sciences and one course from either the Arts and Humanities or Social and Behavorial Sciences, unless otherwise noted in the specific program description.

Arts and Humanities • 3 credits

Select one course from the following:

ART 101 Understanding Art	3	credit
ART 115 Art History I		
ART 116 Art History II	3	credit
ENL 220 World Literature I	3	credit
ENL 221 World Literature II	3	credit
ENL 224 English Literature I	3	credit
ENL 225 English Literature II	3	credit
ENL 230 American Literature I	3	credit
ENL 231 American Literature II	3	credit
HUM 150 Humanities in the Western World I	3	credit
HUM 151 Humanities in the Western World II	3	credit
MUS 150 Music Appreciation	3	credit
PHL 101 Introduction to Philosophy	3	credit
PHL 105 Introduction to Ethics	3	credit
SPT 130 Introduction to Theatre	3	credit
SPT 150 Introduction to Film	3	credit
SPT 155 History of Television	3	credit

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Physical and Biological Sciences • 4 credits

Select one course from the following:

BIO 100 Biology Concepts	4 credit
BIO 105 Environmental Biology	4 credit
BIO 160 Introduction to Human Anatomy	
and Physiology I	4 credit
BIO 181 General Biology I	4 credit
BIO 182 General Biology II	4 credit
BIO 201 Human Anatomy and Physiology I	4 credit
BIO 202 Human Anatomy and Physiology II	4 credit
CHM 130 Fundamental Chemistry	4 credit
CHM 151 General Chemistry I	
CHM 152 General Chemistry II	4 credit
GEO 111 Physical Geography	4 credit
GLG 101 Introduction to Geology I - Physical	4 credit
GLG 102 Introduction to Geology II - Historical.	4 credit
PHY 113 General Physics I	
PHY 114 General Physics II	4 credit

Social and Behavioral Sciences • 3 credits

Select one course from the following:

*ANT 102 Cultural Anthropology3 credit
ANT 120 Buried Cities and Lost Tribes3 credit
BUS 140 Principles of Economics - Macro3 credit
BUS 141 Principles of Economics - Micro3 credit
*GEO 110 World Regional Geography3 credit
GEO 120 Human Geography3 credit
*HIS 105 U.S. History to 1877
*HIS 106 U.S. History since 18773 credit
*HIS 155 Western Civilization to 17003 credit
*HIS 156 Western Civilization since 17003 credit
POS 110 American Government3 credit
PSY 101 Introduction to Psychology3 credit
PSY 200 Psychology of Adjustment3 credit
PSY 240 Developmental Psychology3 credit
SOC 120 General Sociology3 credit
SOC 121 Social Problems in America3 credit
SOC 130 Racial, Ethnic & Gender Relations
in Modern Society3 credit
SOC 225 Sociology of the Family3 credit

Administrative Information

Courses marked with an asterisk (*) meet requirements for Contemporary Global/International or Historical Awareness.

Services (AIS) (AAS/CAS/CP) About this Program

The Administrative Information Services program provides graduates with the knowledge and skills needed in today's modern offices. Areas of study include: medical transcription, legal office, information systems and office management.

Career opportunities exist in and out of the Northland district communities. Graduates are needed by business, industry, government and public and private agencies.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To complete an **Associate of Applied Science degree** in **Administrative Information Services** a student must complete the 16 general education credits, an area of specialization (26 to 33 credits) and 15 to 22 credits of required electives from the list that follows the description of areas of specialization.

■ General Education Requirements • 16 credits

Communications • 6 credits

ENL 101 College Composition I	3 credit
ENL 109 Technical Writing	3 credit

Mathematics • 3 credits

MAT 103 Business Mathematics3 credit

Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

AREAS OF SPECIALIZATION

■ Administrative Information Services

■ Core Requirements • 32 credits

AIS 102 Business Grammar1 cr	redit
AIS 105 Developing Your Professionalism1 cr	redit
AIS 110 Basic Keyboarding and Formatting3 cr	redit
AIS 111 Advanced Keyboarding and	
Document Processing3 ci	redit
AIS 112 Proofreading1 cr	redit
AIS 114 Introduction to the Modern Office3 cr	redit
AIS 115 Ten-Key Adding Machine1 cr	redit
AIS 116 Electronic Calculators3 cr	
AIS 130 Machine Transcription3 cr	redit
AIS 145 Microsoft Word for Windows3 cr	redit
AIS 170 Written Business Communications 3 cr	redit
AIS 180 Records Management3 cr	redit
AIS 231 Introduction to Microsoft Office3 cr	redit
CIS 103 Introduction to Windows1 cr	redit

■ Required Electives • 16 credits

In addition to the core requirements, student will complete a minimum of 16 unduplicated credits from the list of AIS Required Electives.

■ Administrative Office Management

■ Core Requirements • 27 credits

AIS 150 MS Publisher Basics	it
AIS 170 Written Business Communications 3 cred	it
AIS 202 Customer Service	
for the Office Professional	it
AIS 214 Administrative Office Management 3 cred	it

Northland Pioneer College Catalog 2012 - 2013			
AIS 231 Introduction to Microsoft Office	AIS 123 Vocabulary for the Medical Office		
■ Required Electives • 21 credits	or		
In addition to the core requirements student will complete	BUS 117 Principles of Accounting I - Financial 3 credit		
a minimum of 21 unduplicated credits from the list of AIS Required Electives.	CIS 103 Introduction to Windows		
■ Legal Office	In addition to the core requirements student will complete		
	a minimum of 15 unduplicated credits from the list of		
■ Core Requirements • 31 credits	AIS Required Electives.		
AIS 102 Business Grammar	■ Medical Transcription		
AIS 110 Basic Keyboarding and Formatting3 credit	■ Core Requirements • 26 credits		
AIS 111 Advanced Keyboarding and Document Processing	AIS 102 Business Grammar		
■ Required Electives • 17 credits	■ Records and Information Management		
In addition to the core requirements, student will complete a minimum of 17 unduplicated credits from the list of AIS Required Electives. Medical Office Procedures	■ Core Requirements • 27 credits AIS 102 Business Grammar		
■ Core Requirements • 33 credits	AIS 110 Basic Keyboarding and Formatting3 credit		
AIS 102 Business Grammar	AIS 112 Proofreading		

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Northland Pioneer Coll	ege Catalog 2012 – 2013
BUS 129 Database Applications for Business 3 credit	BUS 180 Organizational Behavior3 credit
CIS 103 Introduction to Windows1 credit	BUS 185 Ethics in Management3 credit
■ Required Electives • 21 credits	CIS 103 Introduction to Windows1 credit
-	CIS 141 Managing and Maintaining
In addition to the core requirements student will complete	Your PC I (A+)3 credit
a minimum of 21 unduplicated credits from the list of	HES 170 Medical Terminology3 credit
AIS Required Electives.	
- D ' 15' '	Certificate of Applied Science (CAS)
Required Electives	
for AIS Areas of Specialization	To complete a Certificate of Applied Science in
AIS 102 Business Grammar1 credit	Administrative Information Services student must
AIS 105 Developing Your Professionalism1 credit	complete core requirements in a selected area of specialization,
AIS 110 Basic Keyboarding and Formatting3 credit	ENL 101 and MAT 103.
AIS 112 Proofreading1 credit	a 12 12 1
AIS 113 Basic Memo & Letter Writing1 credit	Certificates of Proficiency (CP)
AIS 114 Introduction to Modern Office3 credit	■ A 1. *. * 4. 4* T. C 4* .
AIS 115 Ten-Key Adding Machine1 credit	■ Administrative Information
AIS 116 Electronic Calculators3 credit	Services • 17 credits
AIS 118 MediSoft Billing3 credit	AIS 102 Business Grammar1 credit
AIS 119 Medical Office Procedures3 credit	AIS 105 Developing Your Professionalism1 credit
AIS 123 Vocabulary for the Medical Office 3 credit	AIS 110 Basic Keyboarding and Formatting3 credit
AIS 127 Medical Office Insurance & Coding3 credit	AIS 112 Proofreading1 credit
AIS 135 Introduction to Medical Transcription 3 credit	AIS 114 Introduction to the Modern Office3 credit
AIS 140 MS Word Basics1 credit	AIS 115 Ten-Key Adding Machine1 credit
AIS 145 Microsoft Word for Windows3 credit	AIS 180 Records Management3 credit
AIS 150 MS Publisher Basics	AIS 202 Customer Service
AIS 153 MS Publisher Complete3 credit	for the Office Professional1 credit
AIS 170 Written Business Communications 3 credit	AIS 231 Introduction to Microsoft Office3 credit
AIS 180 Records Management 3 credit	■ I 1000 F 1 1 10 10
AIS 181 Medical Records Management 1 credit	■ Legal Office Fundamentals • 16 credits
AIS 190 Legal Terminology	AIS 102 Business Grammar1 credit
AIS 191 Introduction to Law Office Procedures3 credit	AIS 110 Basic Keyboarding and Formatting3 credit
AIS 192 Legal Document Processing	AIS 112 Proofreading1 credit
AIS 198 Internship	AIS 145 Microsoft Word for Windows3 credit
AIS 199 Workshop	AIS 190 Legal Terminology3 credit
AIS 202 Customer Service	AIS 191 Introduction to Law Office Procedures3 credit
for the Office Professional	AIS 192 Legal Document Processing1 credit
AIS 214 Administrative Office Management 3 credit	CIS 103 Introduction to Windows1 credit
AIS 230 Advanced Machine Transcription - Legal 3 credit	■ Medical Office Fundamentals
AIS 231 Introduction to Microsoft Office3 credit	• 16 credits
AIS 232 Advanced Microsoft Office	
AIS 235 Advanced Transcription - Medical I4 credit	AIS 102 Business Grammar
AIS 236 Advanced Transcription - Medical II4 credit	AIS 110 Basic Keyboarding and Formatting3 credit
AIS 245 Advanced Microsoft Word	AIS 118 MediSoft Billing
AIS 298 Portfolio	AIS 119 Medical Office Procedures
	AIS 123 Vocabulary for the Medical Office3 credit
BUS 103 Success on Your Job	AIS 127 Medical Office Insurance and Coding3 credit
BUS 112 Fundamentals of Bookkeeping	■ Medical Transcription • 23 credits
for Business3 credit	AIS 102 Business Grammar1 credit
or BUS 117 Principles of Accounting I - Financial 3 credit	AIS 110 Basic Keyboarding and Formatting 3 credit
BUS 128 Spreadsheet Applications for Business3 credit	AIS 112 Proofreading
BUS 129 Database Applications for Business3 credit	AIS 123 Vocabulary for the Medical Office 3 credit
BUS 132 Introduction to Public Administration 3 credit	or
BUS 150 Administrative Policymaking3 credit	HES 170 Medical Terminology3 credit
Dec 150 / Minimottative Folicymaking J Cledit	,

or	Tracomotive recini
AIS 130 Machine Transcription3 credit	(AAS/CAS/CP)
AIS 145 Microsoft Word for Windows3 credit	
AIS 235 Advanced Transcription - Medical I4 credit	About this Program
AIS 236 Advanced Transcription - Medical II4 credit	
CIS 103 Introduction to Windows1 credit	This program is for students who are s automotive repair industry. It offers a
■ Modern Office Fundamentals	guided, computer-aided instruction, gu
• 17 credits	hands-on laboratory learning. Student
AIS 102 Business Grammar1 credit	repairs on a combination of training n
AIS 102 Dustness Grammar	live vehicles. All repairs and tasks will
AIS 103 Developing 10th Professionalism	to prepare students to become ASE ce
AIS 112 Proofreading1 credit	of repair. These areas are: electronics a
AIS 114 Introduction to Modern Office3 credit	engine performance; suspension and s
AIS 115 Ten-Key Adding Machine1 credit	and air-conditioning; engine repair; m
AIS 145 Microsoft Word for Windows3 credit	and axles; and automatic transmission
AIS 180 Records Management	encouraged to participate in the ASE t
CIS 103 Introduction to Windows	certifications in their area of interest.
	Upon completion of the program, the
■ Records Management/Data Processing	an Associate of Applied Science de
Fundamentals • 17 credits	Technology. This degree, coupled win
AIS 102 Business Grammar1 credit	will enhance career opportunities for a
AIS 105 Developing Your Professionalism1 credit	Automotive Service technician in the
AIS 110 Basic Keyboarding and Formatting3 credit	Preceding the A.A.S. degree, students
AIS 112 Proofreading1 credit	opportunity to obtain a Certificate o
AIS 115 Ten-Key Adding Machine1 credit	Automotive Technology or Certific
AIS 145 Microsoft Word for Windows3 credit	g,
AIS 180 Records Management3 credit	Associate of Applied
BUS 129 Database Applications for Business 3 credit	Associate of Applied
CIS 103 Introduction to Windows1 credit	About this Degree • 64
■ Word Processing Fundamentals	To complete an Associate of Applied
• 15 credits	Automotive Technology a student n
AIS 102 Business Grammar1 credit	general education requirement credits
AIS 105 Developing Your Professionalism1 credit	requirements.
AIS 110 Basic Keyboarding and Formatting3 credit	
AIS 112 Proofreading1 credit	■ General Education Require
AIS 115 Ten-Key Adding Machine1 credit	Communications • 6 credits
AIS 145 Microsoft Word for Windows3 credit	ENL 101 College Composition I.
AIS 231 Introduction to Microsoft Office3 credit	Plus one of the following:
CIS 103 Introduction to Windows	ENL 102 College Composition II
AIS 198 Internship	ENL 109 Technical Writing
Of A 10 200 P	SPT 120 Public Speaking
AIS 298 Portfolio	Madamadia 22 and 14

AIS 135 Introduction to Medical Transcription......3 credit | Automotive Technology (ATO)



seeking a career in the combination of selfuided instruction and s will perform numerous nodules, practice and follow ASE guidelines ertified in eight areas and electrical systems; steering; brakes; heating anual transmissions is. Students will then be testing process to obtain

student will receive gree in Automotive th the ASE certifications, a student as an automotive industry. are afforded the f Applied Science in cates of Proficiency.

Science (AAS)

credits

d Science degree in nust complete the 16 , and 48 credits of core

ments • 16 credits

ENL 101 College Composition I	3 credit
Plus one of the following:	
ENL 102 College Composition II	3 credit
ENL 109 Technical Writing	3 credit
SPT 120 Public Speaking	3 credit

Mathematics • 3 credits

MAT 101 or MAT 103 or MAT 105 or MAT 109 or MAT 112 or any mathematics course for which MAT 112 is a prerequisite.

Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

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■ Core Requirements • 48 credits

Level 1

ATO 103 Safety and Hazardous Materials
Level 2
ATO 107 Engine Repair I
ATO 111 Engine Performance III
Level 4
ATO 114 Brake Systems I

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Automotive Technology**, a student must complete the Level 1 and Level 2 core requirements. Additionally, the student must complete ATO 111, ENL 101 and MAT 101 or MAT 103 or MAT 105 or MAT 109 or MAT 112 or any mathematics class for which MAT 112 is a prerequisite.

Certificates of Proficiency (CP)

■ Brake and Transmission Systems

• 13 credits

ATO 103 Safety and Hazardous Materials	2 credit
ATO 112 Automatic Transmission Systems I	3 credit
ATO 113 Automatic Transmission Systems II	3 credit
ATO 114 Brake Systems I	3 credit
ATO 115 Brake Systems II	2 credit

■ Drive Train, Suspension and Steering, HVAC • 14 credits

ATO 103 Safety and Hazardous Materials	2 credit
ATO 205 Suspension and Steering	4 credit
ATO 210 Heating and Air Conditioning Systems	4 credit
ATO 212 Manual Drive Train	4 credit

■ Electrical and Electronics Systems

• 11 credits

ATO	103	Safety and Ha	zardous Materials	2	credit
ATO	207	Electrical and	Electronic Systems	I3	credit
ATO	208	Electrical and	Electronic Systems	II3	credit
ATO	209	Electrical and	Electronic Systems	III3	credit

■ Engine Performance • 11 credits

P	ATO 103 Safety and Hazardous Materials2	credit
P	ATO 109 Engine Performance I	credit
P	ATO 110 Engine Performance II3	credit
P	ATO 111 Engine Performance III3	credit

■ Engine Repair • 7 credits

ATO 103 Safety and Hazardous Materials	2 credit
ATO 107 Engine Repair I	3 credit
ATO 108 Engine Repair II	2 credit

Business (BUS) (AAS/CAS/CP)

About this Program

The Business program provides graduates with knowledge and skills for positions in management, marketing, accounting, supervision, sales, real estate, and small business.

Career opportunities exist both inside and outside the Northland district. Graduates are needed by private business, industry, government, public and private agencies.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To complete an **Associate of Applied Science degree in Business** a student must complete the 16 general education requirement credits, an area of specialization (24 credits) and 21 credits of required electives and three credits of unrestricted electives.

■ General Education Requirements • 16 credits

Communications • 6 credits

	ENL 10	9 Technical	Writing	3 credit	
	ENL 10	1 College Co	omposition l	[3 credit	

Mathematics • 3 credits

MAT 103 Business Mathematics3 credit

Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

AREAS OF SPECIALIZATION	BUS 105 Techniques of Supervision3 credi
■ Accounting	BUS 112 Fundamentals of Bookkeeping
	for Business
■ Core Requirements • 24 credits	BUS 114 Legal Environment of Business3 credi BUS 220 Principles of Marketing
BUS 100 Introduction to Business3 credit	BUS 225 Human Resource Management
BUS 114 Legal Environment of Business3 credit	SBM 111 Effective Business Communication3 cred
BUS 117 Principles of Accounting I - Financial3 credit	SBM 112 Native American Entrepreneurship3 cred
BUS 120 Principles of Accounting II - Financial 3 credit	SBM 113 Building Your Winning Business
BUS 121 Principles of Accounting - Managerial 3 credit	on the Reservation3 cred
BUS 122 Computer Accounting3 credit	
BUS 123 Income Tax Procedures	■ Required Electives • 21 credits
BUS 125 Payroll Accounting3 credit	Student must complete nine credits from the following courses
■ Required Electives • 21 credits	and 12 credits from the List of Additional Required Electives.
Student must complete nine credits from the following courses	BUS 128 Spreadsheet Applications for Business3 credi
and 12 credits from the List of Additional Required Electives.	BUS 198 Internship
AIS 231 Introduction to Microsoft Office3 credit	SBM 157 Team Building for Native American Enterprise1 credi
BUS 106 Techniques of Personal Finance3 credit	SBM 165 Politics and Tribal Government
BUS 115 Business Law3 credit	SBM 167 Budgeting for the Native American
BUS 128 Spreadsheet Applications for Business3 credit	Enterprise
BUS 129 Database Applications for Business 3 credit	SBM 169 Applying for Grants1 credi
BUS 198 Internship1-4 credit	SBM 175 Financing for Native American
BUS 260 Fundamentals of Business Finance3 credit	Enterprise1 cred
BUS 270 Intermediate Accounting I3 credit	SBM 177 Feasibility Studies1 credit
BUS 271 Intermediate Accounting II3 credit	
■ General Business Management	■ Public Administration
_	■ Core Requirements • 24 credits
■ Core Requirements • 24 credits	BUS 114 Legal Environment of Business3 cred
BUS 100 Introduction to Business	BUS 132 Introduction to Public Administration 3 cred
BUS 105 Techniques of Supervision	BUS 140 Principles of Economics-Macro3 credi
BUS 114 Legal Environment of Business3 credit	BUS 145 Governmental Fund Accounting3 cred
BUS 117 Principles of Accounting I - Financial 3 credit	BUS 150 Administrative Policymaking3 credi
BUS 140 Principles of Economics - Macro	BUS 180 Organizational Behavior3 cred
BUS 220 Principles of Marketing3 credit	BUS 210 Principles of Modern Management3 cred
CIS 105 Computer Applications and	BUS 235 Governmental Budgeting3 credi
Information Technology	■ Required Electives • 21 credits
■ Required Electives • 21 credits	Student must complete nine credits from the following courses
Student must complete nine credits from the following courses	and 12 credits from the List of Additional Required Electives.
and 12 credits from the List of Additional Required Electives.	AIS 145 Microsoft Word for Windows3 credi
AIS 231 Intrduction to Microsoft Office3 credit	AIS 148 Introduction to Corel Office Suite3 credi
BUS 106 Techniques of Personal Finance 3 credit	Or
BUS 115 Business Law	AIS 170 Written Business Communications 3 credi AIS 231 Introduction to Microsoft Office 3 credi
BUS 120 Principles of Accounting II - Financial 3 credit	ANT 102 Cultural Anthropology3 credi
BUS 198 Internship3 credit	BUS 141 Principles of Economics-Micro3 credi
BUS 225 Human Resource Management3 credit	BUS 225 Human Resource Management 3 cred
	POS 110 American Government3 cred
■ Native American Enterprise	
■ Core Requirements • 24 credits	■ Small Business Management
Student must complete 24 credits from the following list:	■ Core Requirements • 24 credits
AIS 231 Introduction to Microsoft Office3 credit	AIS 231 Introduction to Microsoft Office3 cred
BUS 100 Introduction to Business3 credit	BUS 105 Techniques of Supervision 3 cred

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BUS 110 Small Business Management	Certificates of Proficiency (CP)
BUS 112 Fundamentals of Bookkeeping for Business	BUS 117 Principles of Accounting I - Financial3 credit BUS 120 Principles of Accounting II - Financial3 credit BUS 121 Principles of Accounting - Managerial3 credit BUS 122 Computer Accounting
and Insurance	 General Business Management 18 credits BUS 100 Introduction to Business
■ Required Electives • 21 credits Student must complete nine credits from the following courses and 12 credits from the List of Additional Required Electives. BUS 106 Techniques of Personal Finance	BUS 117 Principles of Accounting I – Financial3 credit BUS 140 Principles of Economics – Macro3 credit BUS 210 Principles of Modern Management
BUS 115 Business Law	■ Public Administration • 18 credits BUS 132 Introduction to Public Administration 3 credit BUS 140 Principles of Economics-Macro
■ List of Additional Required Electives:	BUS 225 Human Resource Management
In addition to the previously listed required electives within each area of specialization, student must complete 12 unduplicated credits from the following:	or BUS 235 Governmental Budgeting
Any Business (BUS) course Any Small Business Management (SBM) course AIS 145 Microsoft Word for Windows	■ Small Business Management • 18 credits AIS 231 Introduction to Microsoft Office
in Modern Society	Computer Information

■ Unrestricted Electives • 3 credits

Any unduplicated 100 or higher level course

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Business**, student must successfully complete the core requirements of a selected area of specialization plus nine credits from that specialization's list of required electives, ENL 101 and MAT 103.

Computer Information

Systems (CIS) (AAS/CAS/CP)

About this Program

The Computer Information Systems program provides students with knowledge and skills in the areas of computer programming languages, graphics in multimedia, database management and information systems.

Career opportunities exist both in and out of the Northland

district communities. Graduates are needed by business, industry, government, public and private agencies and small business enterprises.

Associate of Applied Science (AAS)

About this Degree • 64 to 65 credits

To complete an Associate of Applied Science degree in Computer Information Systems a student must complete the 16 to 17 general education requirement credits, an area of specialization (28 to 30 credit) and 18 to 20 credits of required electives. Basic keyboarding knowledge is required for successful completion of all CIS courses.

■ General Education Requirements

• 16–17 credits

Communications • 6 credits

ENL 101 College Composition I	3 credit
Plus one of the following:	
ENL 102 College Composition II	3 credit
ENL 109 Technical Writing	3 credit

Mathematics • 3 or 4 credits

Select one of the following courses.

MAT 112 Algebra II: Intermediate	3	credit
MAT 121 Intermediate Algebra	4	credit

Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

AREAS OF SPECIALIZATION

■ Computer Information Systems

■ Core Requirements • 30 credits

CIS 105 Computer Applications and	
Information Technology	3 credit
CIS 111 Introduction to Programming	3 credit
CIS 115 Introduction to Graphic	
Communication Technology	3 credit
CIS 125 Effective Communication	
with Digital Media	3 credit
CIS 141 Managing and Maintaining	
Your PC I (A+)	3 credit
CIS 150 Digital Culture	3 credit
CIS 171 GNU Linux Operating System	3 credit
CIS 217 JAVA Programming, Introductory	3 credit
CIS 245 Database Management and Concepts	3 credit
CIS 280 Systems Analysis and Design	3 credit

■ Graphic Design

■ Core Requirements • 28 credits

ART 103 Basic Design	.3 credit
ART 105 Beginning Drawing I	
CIS 105 Computer Applications and	
Information Technology	.3 credit
CIS 115 Introduction to Graphic Communication	
Technology	.3 credit
CIS 116 Computer Photographic Imaging	
(Adobe Photoshop)	.3 credit
CIS 117 Two-Dimensional Computer Design	
(Adobe Illustrator)	
CIS 118 Graphics, Interactive and Animated	
CIS 119 Page Layout and Design	.3 credit
CIS 125 Effective Communication	
with Digital Media	
CIS 298 Portfolio	.1 credit
Web Design	

■ Core Requirements • 30 credits

or		
ART 150 Advertising Design	.3	credit
CIS 105 Computer Applications and		
Information Technology	.3	credit
CIS 115 Introduction to Graphic Communication		
Technology	.3	credit
CIS 116 Computer Photographic Imaging		
(Adobe Photoshop)	.3	credit
CIS 118 Graphics, Interactive and Animated	.3	credit
CIS 113 Multimedia	.3	credit
or		
CIS 125 Effective Communication		
with Digital Media	.3	credit
CIS 150 Digital Culture	.3	credit
CIS 168 Web Authoring Tools		
CIS 187 Introduction to Web Development		
CIS 295 Applied Project for CIS		

■ Web Development

■ Core Requirements • 30 credits

CIS 105 Computer Applications and	
Information Technology	3 credit
CIS 111 Introduction to Programming	3 credit
CIS 150 Digital Culture	3 credit
CIS 187 Introduction to Web Developm	ent3 credit
CIS 243 Database Driven Web Sites	3 credit
CIS 250 Electronic Commerce	3 credit
CIS 265 Web Programming	3 credit
CIS 275 Web Server Administration	3 credit
CIS 280 System Analysis and Design	3 credit
CIS 295 Applied Project for CIS	3 credit

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■ Required Electives • 18 to 20 credits

In addition to the area of specialization core requirements student must complete 18 to 20 unduplicated credits from this list:

AIS 170 Written Business Communications	3 credit
BUS 110 Small Business Management	3 credit
BUS 112 Fundamentals of Bookkeeping	
for Business	3 credit
or	
BUS 117 Principles of Accounting I - Financial	3 credit
CIS 103 Introduction to Windows	1 credit
CIS 105 Computer Applications and	
Information Technology	3 credit
CIS 111 Introduction to Programming	
CIS 113 Multimedia	
CIS 115 Introduction to Graphic	J CICCII
Communication Technology	3 credit
CIS 116 Computer Photographic Imaging	J CICUII
(Adobe Photoshop)	3 credit
CIS 117 Two-Dimensional Computer Design	J CICUII
(Adobe Illustrator)	3 credit
CIS 118 Graphics, Interactive and Animated	
CIS 119 Page Layout and Design	
CIS 125 Effective Communication	J Clean
with Digital Media	3 aradi
CIS 141 Managing and Maintaining	J Cledii
Your PC I (A+)	2 ana di
	5 credii
CIS 142 Managing and Maintaining Your PC I I (A+)	2 ana di
CIS 145 Network+ Certification Preparation	
CIS 150 Digital Culture	
CIS 161 Microsoft Operating System	
CIS 168 Web Authoring Tools	
CIS 171 GNU Linux Operating System	
CIS 183 Introduction to the Internet	
CIS 187 Introduction to Web Development	
CIS 198 Internship	
CIS 199 Workshop	
CIS 200 BASIC Programming	
CIS 217 JAVA Programming, Introductory	
CIS 226 Programming in C++	
CIS 243 Database-Driven Web sites	
CIS 245 Database Management and Concepts	
CIS 250 Electronic Commerce	
CIS 265 Web Programming	
CIS 275 Web Server Administration	
CIS 280 Systems Analysis and Design	
CIS 286 Educational Technology	
CIS 298 Portfolio	
CIS 299 Special Projects	3 credit

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Computer Information Systems** a student must complete the core requirements in one of the areas of specialization, ENL 101 and MAT 112 or MAT 121.

Certificates of Proficiency (CP)

■ Commercial Graphics Fundamentals • 12 credits

CIS 115 Introduction to Graphic	
Communication Technology	3 credit
CIS 116 Computer Photographic Imaging	
(Adobe Photoshop)	3 credit
CIS 117 Two-Dimensional Computer Design	
(Adobe Illustrator)	3 credit
CIS 119 Page Layout and Design	3 credit

■ Graphic Design • 25 credits

ART 103 Basic Design	3 credit
ART 105 Beginning Drawing I	3 credit
CIS 105 Computer Applications and	
Information Technology	3 credit
CIS 116 Computer Photographic Imaging	
(Adobe Photoshop)	3 credit
CIS 117 Two-Dimensional Computer Design	
(Adobe Illustrator)	3 credit
CIS 118 Graphics, Interactive and Animated	3 credit
CIS 119 Page Layout and Design	3 credit
CIS 298 Portfolio	1 credit
PHO 101 Digital Photography	3 credit

■ Network and PC Support • 16 credits

CIS 105 Computer Applications and	
Information Technology	3 credit
CIS 141 Managing and Maintaining	
Your PC I (A+)	3 credit
CIS 142 Managing and Maintaining	
Your PC I I(A+)	3 credit
CIS 145 Network+ Certification Preparation	3 credit
CIS 198 Internship	2 credit
CIS 298 Portfolio	2 credit

■ Software Quality Assurance • 9 credits

CIS 251 Software Quality

ore 231 core ware & dame,	or our
CIS 252 Engineering Quality	
in Software Development3	credit
CIS 253 Software Testing	credit

3 credit

■ Web Design • 18 credits

CIS 113 Multimedia3 credit
or
CIS 125 Effective Communication
with Digital Media3 credit
CIS 115 Introduction to Graphic Communication
Technology
CIS 116 Computer Photographic Imaging
(Adobe Photoshop)3 credit
CIS 118 Graphics, Interactive and Animated 3 credit
CIS 168 Web Authoring Tools3 credit
CIS 187 Introduction to Web Development 3 credit

Cosmetology (COS) (AAS/CAS/CP) About this Program

The Cosmetology program offers exceptional training necessary to prepare prospective students for the Arizona State Board of Cosmetology License Exam This 1600-hour program is offered at three locations — Little Colorado Campus in Winslow, White Mountain Campus in Show Low and the St. Johns Center.

The Associate of Applied Science degree in Cosmetology is based on a two-year curriculum. The Certificate of Applied Science in Cosmetology requires students to complete the Area of Specialization and designated English and mathematics courses. Completion of the Certificate of Proficiency prepares students to meet the state licensure examination requirements.

Prospective students are encouraged to make application to the program, including successful completion of a pre-admission interview. Admission is made on either a full- or part-time basis. Call the cosmetology department at (800) 266-7845, ext. 6161 for information on how to obtain an admissions packet or see an academic adviser at a campus or center near you.

Applicants with the goal of **Cosmetology Instructor Certificate of Proficiency** must have a current Arizona cosmetology license and one year of experience.

Associate of Applied Science (AAS)

About this Degree • 68 credits

To complete an **Associate of Applied Science degree** in **Cosmetology** a student must complete the 16 general education requirement credits and 52 credits of required electives.

■ General Education Requirements • 16 credits

Communications • 6 credits

ENL 101 College Composition I	credit
Plus one of the following:	
ENL 102 College Composition II	credit
ENL 109 Technical Writing3	credit
SPT 120 Public Speaking	credit

Mathematics • 3 credits

Select MAT 101, MAT 103, MAT 105, MAT 109 or MAT 112 or any math course for which MAT 112 is a prerequisite.

Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

■ Core Requirements • 52 credits

COS 113 Introduction to Cosmetology 10 credit	
COS 114 Theory of Cosmetology II3 credit	
COS 115 Theory of Cosmetology III -	
General Science of Cosmetology3 credit	
COS 116 Theory of Cosmetology IV - Hair Care 2 credit	
COS 117 Theory of Cosmetology V -	
Skin Care and Nail Care2 credit	
COS 201 Basic Clinical Practice I4 credit	
COS 202 Basic Clinical Practice II4 credit	
COS 203 Basic Clinical Practice III4 credit	
COS 204 Advanced Clinical Practice IV4 credit	
COS 205 Advanced Clinical Practice V4 credit	
COS 206 Advanced Clinical Practice VI4 credit	
COS 207 Advanced Clinical Practice VII4 credit	
COS 208 Advanced Clinical Practice VIII4 credit	

Certificate of Applied Science (CAS)

To complete a Certificate of Applied Science in

Cosmetology, the student must complete 6 credits of general education requirements: ENL 101 and MAT 101 or MAT 103 or MAT 105 or MAT 109 or MAT 112 or any math class for which MAT 112 is a prerequisite and the 52 credits of core requirements.

Certificates of Proficiency (CP)

To earn a Certificate of Proficiency in Cosmetology the student must complete the requirements as follows:

■ Cosmetology • 52 credits

Student must complete the cosmetology program's 52 credits of core requirements.

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MAT 152 Advanced Algebra3 credit ■ Cosmetology Instructor • 16 credits MAT 161 Algebra-based Mathematics COS 209 Science for Cosmetology Instructors 1 credit COS 210 Management for Cosmetology MAT 162 Algebra-based Mathematics for Elementary Teachers II3 credit COS 211 Instructing in Cosmetology I......3 credit Discipline Studies • 7 credits COS 212 Instructing in Cosmetology II3 credit Per the AAS Discipline Studies list on page 64-65. COS 213 Instructing in Cosmetology III......3 credit COS 214 Instructing in Cosmetology IV......3 credit AREAS OF SPECIALIZATION ■ Nail Technician • 18 credits **■** Early Childhood Management COS 101 Manicuring I4 credit ■ Core Requirements • 35 credits COS 102 Manicuring II......4 credit ECD 100 Providing a Healthy Environment........... 1 credit COS 104 Manicuring IV4 credit COS 118 Manicuring, Hand and Arm Massage 2 credit ECD 103 Planned Arrangements and Schedules.....1 credit ECD 105 Guidance Principles for Encouraging **Early Childhood Development** ECD 108 Techniques for Observing Children 1 credit ECD 110 Building Relationships With Parents (ECD) (AGS,AAS,CAS,CP) Through Communication......1 credit ECD 111 Supporting the Growth and Education **About this Program** The Early Childhood Development program trains persons to work in or operate preschools, assist primary school teachers as assistants, work in family home provider settings, and work in ECD 128 Incorporating the Children's Culture...... 1 credit other areas related to the education and care of young children. ECD 129 Planning and Implementing a Local career opportunities exist in all Northland district Bilingual Program 1 credit communities, as well as statewide. ECD 136 Understanding How Children Learn...... 1 credit Associate of Applied Science (AAS) ECD 198 Internship (Early Childhood Management) 1 credit About this Degree • 64 credits ECD 200 Introduction to Early Childhood To complete an Associate of Applied Science degree in ECD 201 Exploring Early Childhood Early Childhood Development a student must successfully complete the 16 general education requirement credits and ECD 211 Providing Food and Nutrition Services.... 1 credit 48 credits of core requirements and required electives in the ECD 231 Planning and Managing an Early selected area of specialization. Childhood Program......2 credit ECD 232 Designing Indoor and Outdoor ■ General Education Requirements • 16 credits Communications • 6 credits ECD 233 Developing Policies and Procedures for ENL 101 College Composition I3 credit Plus one of the following: ECD 234 Staffing an Early Childhood Program 2 credit ENL 102 College Composition II......3 credit ECD 235 Budgeting and Financial Management..... 2 credit ENL 109 Technical Writing......3 credit ECD 236 Marketing the Early Childhood Program 2 credit SPT 120 Public Speaking.......3 credit ECD 237 Evaluating an Early Childhood Program. 1 credit ECD 250 Child Development I......3 credit Mathematics • 3 credits

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the 13 credits.

Select one of the math courses shown.

MAT 142 College Math with

MAT 103 Business Mathematics3 credit

MAT 105 Math for General Education......3 credit MAT 112 Algebra II: Intermediate......3 credit

Contemporary Applications3 credit

■ Required Electives • 13 credits

In addition, a minimum of 13 unduplicated credits, 100 level

or higher, must be selected as electives. One-half credit to six

credits of ECD/EDU/HUS 199s and 299s may be included in

■ Family Care

■ Core Requirements • 26 credits

ECD 100 Providing a Healthy Environment
ECD 101 The Child's Total Learning Environment 1 credit
ECD 102 Ensuring a Safe Environment
ECD 103 Planned Arrangements and Schedules1 credit
ECD 105 Guidance Principles for Encouraging
Self Discipline1 credi
ECD 108 Techniques for Observing Children 1 credit
ECD 110 Building Relationships With Parents
Through Communication1 credit
ECD 113 Fostering Communication and
Language Skills1 credi
ECD 114 Beginning Mathematical Concepts 1 credit
ECD 116 Sciencing and Discovery1 credi
ECD 117 Enhancing Questions and Problem-
Solving Abilities
ECD 120 Enhancing a Positive Self-Concept1 credi
ECD 123 Music and Creative Movement1 credi
ECD 124 Dramatic Play i
n Early Childhood Setting1 credi
ECD 125 Creative Media1 credi
ECD 126 Large Muscle Development
ECD 127 Small Muscle Development
ECD 136 Understanding How Children Learn1 credi
*ECD 147 Prenatal and Infant Development1 credi
*ECD 148 Toddler Development
*ECD 149 Development of the Preschool Child1 credi
ECD 167 Guidance and Discipline of Infants
and Toddlers1 credi
ECD 175 Professionalism
ECD 181 Recordkeeping for the Family Day
Care Provider1 credi
ECD 182 Family Day Care as a Small Business 1 credit
ECD 183 Balancing Work and Family in a Family
Day Care Setting1 credit
*ECD 250 Child Development I3 credi
*ECD 147, 148, 149 may be taken in combination or ECD 250
as a single three-credit class to apply toward the AAS degree.

■ Required Electives • 22 credits

In addition, a minimum of 22 unduplicated credits must be selected as electives. One-half credit to six credits of ECD/EDU/HUS 199s and 299s may be included in the 22 credits.

■ Infant/Toddler

■ Core Requirements • 26 credits

ECD 100 Providing a Healthy Environment
ECD 102 Ensuring a Safe Environment
ECD 103 Planned Arrangements and Schedules1 credit
ECD 108 Techniques for Observing Children 1 credit
ECD 110 Building Relationships With Parents
Through Communication

ECD 112 Enhancing Family Involvement
ECD 115 Nutrition in Early Childhood1 credit
ECD 143 Inclusion of Children with Special Needs 2 credit
*ECD 147 Prenatal and Infant Development1 credit
*ECD 148 Toddler Development1 credit
*ECD 149 Development of the Preschool Child1 credit
ECD 154 Environments for Infants and Toddlers1 credit
ECD 155 Curriculum and Learning Materials
for Infants1 credit
ECD 156 Curriculum and Learning Materials
for Toddlers
ECD 158 Developing and Utilizing Observation
Skills in Infant and Toddler Programs1 credit
ECD 159 Recordkeeping Skills for Infant/
Toddler Care
ECD 163 Cognitive Development of Infants
and Toddlers1 credit
ECD 164 Practical Applications of
Cognitive Development1 credit
ECD 165 Language Development of Infants
and Toddlers1 credit
ECD 166 Encouraging Autonomy and Positive
Self-Concept
ECD 167 Guidance and Discipline of Infants
and Toddlers1 credit
ECD 168 Enhancing Social Competence of
Infants/Toddlers 1 credit
ECD 169 Sensorimotor Learning in Infancy
and Toddlerhood1 credit
ECD 172 Physical Development in Infancy
and Toddlerhood1 credit
ECD 175 Professionalism1 credit
*ECD 250 Child Development I
*ECD 147, 148, 149 may be taken in combination or ECD 250
as a single three-credit class to apply toward the AAS degree.

■ Required Electives • 22 credits

In addition, a minimum of 22 unduplicated credits must be selected as electives. One-half credit to six credits of ECD/EDU/HUS 199s and 299s may be included in the 22 credits.

■ Preschool

■ Core Requirements • 26 credits

•
ECD 100 Providing a Healthy Environment
ECD 101 The Child's Total Learning Environment 1 credit
ECD 102 Ensuring a Safe Environment1 credit
ECD 103 Planned Arrangements and Schedules1 credit
ECD 105 Guidance Principles for Encouraging
Self Discipline
ECD 108 Techniques for Observing Children 1 credit
ECD 110 Building Relationships With Parents
Through Communication1 credit
ECD 112 Enhancing Family Involvement1 credit
ECD 113 Fostering Communication and
Language Skills1 credit

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ECD 114 Beginning Mathematical Concepts 1 credit
ECD 115 Nutrition in Early Childhood1 credit
ECD 116 Sciencing and Discovery1 credit
ECD 117 Enhancing Questions and Problem-
Solving Abilities
ECD 118 Blocks in Early Childhood Program 1 credit
ECD 120 Enhancing a Positive Self-Concept
ECD 123 Music and Creative Movement1 credit
ECD 124 Dramatic Play in Early Childhood
Setting1 credit
ECD 125 Creative Media1 credit
ECD 126 Large Muscle Development 1 credit
ECD 127 Small Muscle Development 1 credit
ECD 136 Understanding How Children Learn1 credit
*ECD 147 Prenatal and Infant Development 1 credit
*ECD 148 Toddler Development1 credit
*ECD 149 Development of the Preschool Child1 credit
ECD 175 Professionalism1 credit
ECD 216 Transitions
*ECD 250 Child Development I3 credit
*ECD 147, 148, 149 may be taken in combination or ECD 250
as a single three-credit class to apply toward the AAS degree.

■ Required Electives • 22 credits

In addition, a minimum of 22 unduplicated credits must be selected as electives. One-half credit to six credits of ECD/EDU/HUS 199s and 299s may be included in the 22 credits.

■ School Age

■ Core Requirements • 26 credits

ECD 100 Providing a Healthy Environment
ECD 102 Ensuring a Safe Environment
ECD 103 Planned Arrangements and Schedule 1 credit
ECD 107 Collecting, Organizing, and Using
Teaching Aids1 credit
ECD 108 Techniques for Observing Children 1 credit
ECD 110 Building Relationships With Parents
Through Communication
ECD 115 Nutrition in Early Childhood1 credit
ECD 116 Sciencing and Discovery
ECD 117 Enhancing Questions and Problem-
Solving Abilities
ECD 120 Enhancing a Positive Self-Concept1 credit
ECD 123 Music and Creative Movement1 credit
ECD 124 Dramatic Play in Early Childhood
Setting1 credit
ECD 125 Creative Media1 credit
ECD 127 Small Muscle Development 1 credit
ECD 136 Understanding How Children Learn 1 credit
*ECD 147 Prenatal and Infant Development 1 credit
*ECD 148 Toddler Development1 credit
*ECD 149 Development of the Preschool Child1 credit
ECD 150 Middle Childhood Years 1 credit
ECD 151 Math for School Agers1 credit

ECD 152 Learning Environment for School Agers . 1 credit
ECD 153 Guidance Principles for School Agers1 credit
ECD 175 Professionalism1 credit
ECD 216 Transitions
ECD 217 Early Literacy1 credit
*ECD 250 Child Development I3 credit
EDU 139 Assisting in Teaching Elementary School
Physical Education
*ECD 147, 148, 149 may be taken in combination or ECD 250
as a single three-credit class to apply toward the AAS degree.

■ Required Electives • 22 credits

In addition, a minimum of 22 unduplicated credits must be selected as electives. One-half credit to six credits of ECD/EDU/HUS 199s and 299s may be included in the 22 credits.

■ Special Needs

■ Core Requirements • 43 credits

Core Requirements • 43 creaits
ECD 100 Providing a Healthy Environment1 credit
ECD 101 The Child's Total Learning Environment 1 credit
ECD 102 Ensuring a Safe Environment
ECD 103 Planned Arrangements and Schedules 1 credit
ECD 105 Guidance Principles for Encouraging
Self Discipline
ECD 108 Techniques for Observing Children 1 credit
ECD 110 Building Relationships With Parents
Through Communication
ECD 112 Enhancing Family Involvement1 credit
ECD 113 Fostering Communication and
Language Skills
ECD 114 Beginning Mathematical Concepts 1 credit
ECD 115 Nutrition in Early Childhood 1 credit
ECD 116 Sciencing and Discovery 1 credit
ECD 117 Enhancing Questions and Problem-
Solving Abilities
ECD 118 Blocks in Early Childhood Program 1 credit
ECD 120 Enhancing a Positive Self-Concept 1 credit
ECD 123 Music and Creative Movement
ECD 124 Dramatic Play in Early Childhood
Setting1 credit
ECD 125 Creative Media
ECD 126 Large Muscle Development
ECD 127 Small Muscle Development
ECD 136 Understanding How Children Learn1 credit
ECD 175 Professionalism1 credit
ECD 200 Introduction to Early Childhood
Education3 credit
ECD 216 Transitions
ECD 222 Young Children With Special Needs 3 credit
ECD 250 Child Development I
EDU 202 Occupational/Physical Therapy
Educational Assistant3 credit
EDU 198 Internship
(Occupational/Physical Therapy)1 credit

EDU 203 Speech Therapy Educational Assistant3 credit
EDU 198 Internship (Speech Therapy)1 credit
LAN 160 Beginning American Sign Language3 credit

■ Required Electives • 5 credits

In addition, a minimum of five unduplicated credits must be selected as electives. One-half credit to five credits of ECD/EDU/HUS 199s and 299s may be included in the five credits.

Certificates of Applied Science (CAS)

To complete a **Certificate of Applied Science in Early Childhood Development** a student must complete the core requirements, ENL 101, and one of the following mathematics courses: MAT 103, MAT 105, MAT 112, MAT 142, MAT 152, MAT 161 or MAT 162.

To complete a **Certificate of Applied Science in Early Childhood Special Needs**, a student must complete ENL 101 and one of the following mathematics courses: MAT 103, MAT 105, MAT 112, MAT 142, MAT 152, MAT 161, MAT 162 and the following credits:

Certificate of Proficiency
(see below for courses in CP) 16 credit
ECD 200 Introduction to Early Childhood
Education3 credit
ECD 250 Child Development I3 credit
Required Electives**4 credit
**Four unduplicated credits must be selected as electives. One-
half credit to four credits of ECD/EDU/HUS 199s and 299's
may be included in the selection of the four credits.

Certificate of Proficiency (CP) Early Childhood – Special Needs

To complete a **Certificate of Proficiency in Early Childhood Special Needs**, a student must complete the following 16 credits.

ECD 102 Ensuring a Safe Environment
ECD 136 Understanding How Children Learn1 credit
ECD 222 Young Children With Special Needs3 credit
EDU 202 Occupational/Physical Therapy
Educational Assistant3 credit
EDU 198 Internship
(Occupational/Physical Therapy)1 credit
EDU 203 Speech Therapy Educational Assistant3 credit
EDU 198 Internship (Speech Therapy)1 credit
LAN 160 Beginning American Sign Language3 credit

Certificate of Proficiency (CP)

To complete a **Certificate of Proficiency in Early Childhood Family Care, Infant/Toddler, Preschool** or **School Age**, a student must complete the 26 core requirement credits in the area of specialization.

Education (EDU) (AAS/CAS/CP)

About this Program

The Education Program trains persons to assist in elementary school settings as assistants, volunteers, and/or substitutes and to work in other areas related to the education of children. Local career opportunities exist in all Northland district communities, as well as statewide.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To complete an **Associate of Applied Science degree** in **Education** a student must successfully complete the 16 general education requirement credits, and 48 credits of core requirement and required electives in a selected area of specialization.

■ General Education Requirements • 16 credits

Communications • 6 credits

ENL 101 College Composition I	credit
Plus one of the following:	
ENL 102 College Composition II	credit
ENL 109 Technical Writing3	credit
SPT 120 Public Speaking3	credit

Mathematics • 3 credits

MAT 105 Mathematics for General Education......3 credit

Discipline Studies • 7 credits

One course from the Arts and Humanities section, and one course from the Physical and Biological Sciences section of the AAS Discipline Studies list on page 64-65.

AREAS OF SPECIALIZATION

■ Special Needs Educational Assistant

■ Core Requirements • 40 credits

ECD 108 Techniques for Observing Children 1 credit
ECD 136 Understanding How Children Learn1 credit
ECD 222 Young Children with Special Needs3 credit
ECD 250 Child Development I3 credit
ECD 251 Child Development II2 credit
EDU 136 Introduction to Reading Programs1 credit
EDU 137 Principles of Child Guidance1 credit
EDU 138 Managing Children's Behavior1 credit
EDU 139 Assisting in Teaching Elementary
School Physical Education1 credit
EDU 140 Assisting in Teaching Elementary
School Writing1 credit
EDU 143 Assisting in Teaching Elementary
School Math1 credit

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EDU 144 Assisting in Teaching Elementary
School Science
EDU 145 Assisting in Teaching Elementary School
Social Studies
EDU 146 Assisting in Teaching Elementary
School Music
EDU 147 Assisting in Teaching Elementary
School Reading
EDU 148 Assisting in Teaching Elementary
School Art
EDU 149 Use of Bulletin Boards and
Classroom Decorations
EDU 198 Internship (Internship, Speech, and
Occupational/Physical Therapy)3 credit
EDU 200 Introduction to Education I3 credit
EDU 201 Substitute Teaching in the Schools3 credit
EDU 202 Occupational/Physical Therapy
Educational Assistant3 credit
Educational Assistant
EDU 203 Speech Therapy Educational Assistant3 credit

■ Required Electives • 8 credits

In addition, eight unduplicated credits (100 level or higher) must be selected from ECD/EDU/EMT/LAN/SPA courses as electives. One-half credit to 6 credits of ECD/EDU/EMT/LAN/SPA 199's and one-half credit to six credits of ECD 299's may be included in the selection of the eight credits.

Certificate of Applied Science (CAS)

■ Educational Assistant

To complete a **Certificate of Applied Science in the Educational Assistant** program, a student must complete the Certificate of Proficiency below and ENL 101 and one of the following mathematics courses: MAT 103, 105, 112, 142, 152, 161 or 162.

■ Special Needs Educational Assistant

To complete a **Certificate of Applied Science in Special Needs Education Assistant** a student must complete
ENL 101, one of the following mathematics courses: MAT 103,
105, 112, 142, 152, 161 or 162 and the following credits:

Certificate of Proficiency (listed below)

16 credit

Certificate of Proficiency (listed below)16	5 credit
ECD 250 Child Development I	3 credit
EDU 200 Introduction to Education	3 credit
EDU Required Electives as described above	t credit

Certificate of Proficiency (CP)

■ Educational Assistant

To earn an Educational Assistant Certificate of Proficiency a student must complete the following 26 credits:

ECD 108 Techniques for Observing Children 1 credit

ECD 250 Child Development I3 credit
ECD 251 Child Development II2 credit
EDU 136 Introduction to Reading Programs1 credit
EDU 137 Principles of Child Guidance1 credit
EDU 138 Managing Children's Behavior1 credit
EDU 139 Assisting in Teaching Elementary School
Physical Education
EDU 140 Assisting in Teaching Elementary
School Writing1 credit
EDU 143 Assisting in Teaching Elementary
School Math1 credit
EDU 144 Assisting in Teaching Elementary
School Science
EDU 145 Assisting in Teaching Elementary School
Social Studies
EDU 146 Assisting in Teaching Elementary
School Music
EDU 147 Assisting in Teaching Elementary
School Reading
EDU 148 Assisting in Teaching Elementary
School Art1 credit
EDU 149 Use of Bulletin Boards and
Classroom Decorations
EDU 198 Internship (Speech, or Occupational/
Physical Therapy)2 credit
EDU 200 Introduction to Education I3 credit
EDU 201 Substitute Teaching in the Schools3 credit

■ Special Needs Educational Assistant

To earn an Special Needs Educational Assistant Certificate of Proficiency a student must complete the following 16 credits:

ECD 102 Ensuring a Safe Environment
ECD 222 Young Children With Special Needs 3 credit
ECD 136 Understanding How Children Learn1 credit
EDU 202 Occupational/Physical Therapy
Educational Assistant3 credit
EDU 198 Internship
(Occupational/Physical Therapy) 1 credit
EDU 198 Internship (Speech Therapy)1 credit
EDU 203 Speech Therapy Educational Assistant3 credit
LAN 160 Beginning American Sign Language3 credit

Emergency Medical Technology (EMT)

See Paramedicine on page 87

Fire Science (FRS) (AAS/CAS/CP) **About this Program**

The Fire Science program, through cooperation with the State Fire Marshal's Office and fire departments throughout Northland's district and service area, trains fire department personnel in firefighting operations and in the use of equipment. Employment areas related to firefighting include fire inspectors, arson investigators, fire prevention specialists, insurance investigators, hazardous materials specialists, business/industry fire protection system engineers and others.

To obtain information on training opportunities and classes, contact the program coordinator at the Jake Flake Emergency Services Training Center in Taylor, (928) 536-2462.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To earn an Associate of Applied Science degree in Fire **Science,** a student must complete the 18 general education requirement credits, 37-44 core requirement credits and 2-9 credits of unrestricted electives as described.

■ General Education Requirements • 18 credits

Communications • 6 credits

ENL 101 College Composition I	3 credit
Plus one of the following:	
ENL 102 College Composition II	3 credit
ENL 109 Technical Writing	3 credit
SPT 120 Public Speaking	3 credit

Mathematics • 3 credits

Select one of the listed courses, or any mathematics course for which MAT 152 is a prerequisite.

MAT 101	Basic Technical Mathematics	3 credit
MAT 152	Advanced Algebra	3 credit

Discipline Studies • 9 credits

Per the Arts and Humanities and/or Social and Behavioral Sciences sections of the AAS Discipline Studies list on page 64-65.

■ Core Requirements • 37–44 credits

FRS 104 Firefighter I and II	10 credit
FRS 110 Hazardous Materials First Responder	2 credit
FRS 115 Principles of Fire Prevention	3 credit
FRS 136 Fire Apparatus, Equipment	
and Hydraulics	3 credit
FRS 137 Strategies and Tactics	3 credit
FRS 141 Fire Service Communication	3 credit
FRS 150 Wildland Firefighter	2 credit
FRS 207 Fire Service Building Construction	3 credit
FRS 210 Incident Safety Officer	3 credit

FRS 211 Leadership I1 cred	it
FRS 212 Leadership II1 cred	it
FRS 213 Leadership III	it
And one course from the following:	
EMT 120 Emergency Medical Responder3 cred	it
EMT 132 Emergency Medical Technician-Basic9 cred	it
FRS 102 Fire Service First Responder2 cred	it

■ Unrestricted Electives • 2 to 9 credits

Any unduplicated course(s) at the 100 or higher level.

Certificate of Applied Science (CAS)

To complete a Certificate of Applied Science in Fire Science, a student must complete the core requirements, ENL 101 and MAT 101 or MAT 152 or any mathematics class for which MAT 152 is a prerequisite.

Certificate of Proficiency (CP)

To complete a Certificate of Proficiency in Fire Science, a student must complete the following courses:

FRS 104 Firefighter I and II	10 credit
FRS 110 Hazardous Materials First Responder	2 credit
FRS 150 Wildland Firefighter	2 credit
FRS 102 Fire Service First Responder	2 credit
or	
EMT 120 Emergency Medical Responder	3 credit

Heavy Equipment Operations (HOO) (AAS/CAS/CP)

About this Program

The Heavy Equipment Program is designed to teach incremental levels of heavy equipment operations skills which enable students to achieve nationally recognized certifications NCCER Level 1 & 2 Entry Level Heavy Equipment and Level 3 & 4 Intermediate Heavy Equipment and Advanced Heavy Equipment that certifies at least 30 hours of operation time with a particular piece of equipment. Each certificate level is acknowledged by industry markets as proof of acquired skills in various forms of heavy equipment operation, safety, daily inspections, proper start up and shut down procedures, operations, career opportunities and professional work ethics.

This prepares students for certification tests in the use of heavy equipment operations for equipment such as dozer, backhoe, skid-steer, roller, forklift, crane, dump truck and motor grader. In addition to national heavy equipment certifications, students are afforded the opportunity to obtain Certificates of Proficiency, a Certificate of Applied Science and an Associate of Applied Science degree. Certification levels from Northland Pioneer College enhance career opportunities for graduates as certified Heavy Equipment Operators throughout the nation.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To earn an Associate of Applied Science degree in Heavy **Equipment Operations** the student must complete the 16 credits of general education requirements and 48 credits of core requirements.

■ General Education Requirements • 16 credits

Communications • 6 credits	
ENL 101 College Composition I3 c	redit
Plus one of the following:	
ENL 102 College Composition II3 c	redit
ENL 109 Technical Writing3 c	redit
SPT 120 Public Speaking3 c	redit

Mathematics • 3 credits

LEVEL I: 12 credits

Select one of these mathematics courses.

MAT 101 Basic Technical Mathematics	3 (credit
MAT 152 Advanced Algebra	3 (credit

■ Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

■ Core Requirements • 48 credits

HQO 108 Core Review	4 credit
HQO 109 Basic Operations	3 credit
HQO 111 Orientation to Trade/Equipment	3 credit
HQO 113 Grades Part One	2 credit
LEVEL II: 12 credits	

LEVEL II: I	2 credits	
HQO 119	Introduction to Earthmoving/Trucks 3	credit
HQO 121	Rollers/Scrapers3	credit
HQO 122	Loaders/Forklifts3	credit
HQO 123	Excavation Math3	credit

LEVEL III: 12 credits	
HQO 210 Grades Part Two/Civil Bluep	rints4 credit
HQO 211 Backhoes/Dozers	4 credit
HQO 212 Introduction to Crew Leader	s/
_	4 1.

LEVEL IV: 12 credits	
HQO 230 Motor Graders4 cred	dit
HQO 231 Advanced Operation Techniques/	
MSHA3 cred	dit
HQO 232 Finish Grades/Soils3 cred	dit

HQO 233 Cranes/Rigging2 credit

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Heavy Equipment Operations**, a student must complete Levels I and II of the core requirements and ENL 101 and MAT 101.

Certificate of Proficiency (CP)

All certificates of proficiency require successful completion of HQO 108 Core Review or a waiver from the instructor.

■ Backhoes & Dozers • 10 credits		
HQO 109 Basic Operations3 credit		
HQO 111 Orientation to Trade/Equipment3 credit		
HQO 211 Backhoes & Dozers4 credit		
■ Cranes & Rigging • 8 credits		
HQO 109 Basic Operations3 credit		
HQO 111 Orientation to Trade/Equipment3 credit		
HQO 233 Cranes/Rigging2 credit		
■ Earthmoving Equipment & Trucks		
• 9 credits		
HQO 109 Basic Operations3 credit		
HQO 111 Orientation to Trade/Equipment3 credit		
HQO 119 Introduction to Earthmoving/Trucks 3 credit		
■ Loaders & Forklifts • 9 credits		
HQO 109 Basic Operations3 credit		
HQO 111 Orientation to Trade/Equipment3 credit		
HQO 122 Loaders/Forklifts3 credit		
■ Motor Graders • 10 credits		

HQO 109 Basic Operations	3	credit
HQO 111 Orientation to Trade/Equipment	3	credit
HQO 230 Motor Graders	4	credit

■ Rollers & Scrapers • 9 credits

HQO 109 Basic Operations	.3 cı	redit
HQO 111 Orientation to Trade/Equipment	.3 cı	redit
HQO 121 Rollers/Scrapers	.3 cı	redit

Human Services (HUS) (AAS/CAS/CP) **About this Program**

The Residential Child/Youth Care Assistant Program is designed for individuals working with children in residential settings such as boarding schools, dormitories or group homes. Courses leading to the program degree are combined from several disciplines.

Associate of Applied Science (AAS)

■ Residential Child/Youth Care Assistant

About this Degree • 64 credits

To earn an Associate of Applied Science degree in Residential Child/Youth Care Assistant the student must complete 16 credits of general education requirements, 35 credits of core requirements and 13 credits of required electives.

ECD 143 Inclusion of Children with Special Needs 2 credit ■ General Education Requirements • 16 credits ECD 152 Learning Environment for School Agers . 1 credit Communications • 6 credits ECD 153 Guidance Principles for School Agers...... 1 credit ECD 175 Professionalism......1 credit Plus one of the following: ECD 250 Child Development I......3 credit ENL 102 College Composition II......3 credit EDU 137 Principles of Child Guidance...... 1 credit EDU 138 Managing Children's Behavior...... 1 credit Mathematics • 3 credit HUS 251 Developing a Culture of Care......2 credit HUS 252 Building Relationships2 credit Select one of these mathematics courses. HUS 253 Teaching Discipline2 credit MAT 103 Business Mathematics3 credit HUS 256 Understanding Child Development......... 2 credit MAT 105 Mathematics for General Education......3 credit An additional three **unduplicated** credits (100 level or higher) Discipline Studies • 7 credits must be selected from ECD/EDU/EMT/HDE/HUS/CIS/ Per the AAS Discipline Studies list on page 64-65. HPE/ANT/LAN courses. Up to three credits of 199 workshops may be used. ■ Core Requirements • 35 credits Certificates of Proficiency (CP) CIS Any two 3-credit courses......6 credit ■ Child/Youth Care • 19 credits ECD 108 Techniques for Observing Children 1 credit To earn a Certificate of Proficiency in Child/Youth Care ECD 110 Building Relationships with Parents the student must take the following courses: ECD 143 Inclusion of Children with Special Needs 2 credit ECD 152 Learning Environment for School Agers. 1 credit ECD 108 Techniques for Observing Children 1 credit ECD 153 Guidance Principles for School Agers...... 1 credit ECD 110 Building Relationships with Parents Through Communication......1 credit ECD 221 Stress Management for Educators 2 credit ECD 143 Inclusion of Children with Special Needs 2 credit ECD 250 Child Development I......3 credit ECD 152 Learning Environment for School Agers. 1 credit ECD 251 Child Development II......2 credit ECD 153 Guidance Principles for School Agers...... 1 credit ECD or EDU Internship 1 credit EDU 137 Principles of Child Guidance...... 1 credit EDU 137 Principles of Child Guidance...... 1 credit EDU 138 Managing Children's Behavior...... 1 credit HUS 251 Developing a Culture of Care......2 credit HUS 251 Developing a Culture of Care......2 credit HUS 252 Building Relationships2 credit HUS 253 Teaching Discipline2 credit HUS 256 Understanding Child Development........ 2 credit HUS 256 Understanding Child Development........ 2 credit ■ Substance Abuse Counseling • 15 credits ■ Required Electives • 13 credits The Certificate of Proficiency in Substance Abuse An additional 13 unduplicated credits must be selected **Counseling** is a series of seven courses linked together to from any 100-level or above courses. Up to six credits of 199 provide training and skills necessary for an individual to workshops may be included in this total. work as part of a substance abuse program providing support for individuals involved with substance abuse or issues Certificate of Applied Science (CAS) surrounding substance abuse. To earn a Certificate of Applied Science in Residential HUS 111 Foundations of Chemical Dependency....3 credit Child/Youth Care Assistant, a student must complete ENL HUS 112 Biosystems/Pharmacology of 101, MAT 103 or MAT 105, and the following 30 credits: HUS 210 Family Dynamics and Chemical Dependency3 credit ECD 108 Techniques for Observing Children 1 credit HUS 212 Case Report Writing...... 1 credit ECD 110 Building Relationships with Parents HUS 215 Professional Ethics and Counseling....... 1 credit

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HUS 218 Dual Diagnosis......2 credit

Through Communication......1 credit

Industrial Maintenance & Operations (IMO) (AAS/CAS)CP

About this Program

The Industrial Maintenance & Operations program prepares students to be technicians and operators capable of understanding the entire system with which they work. Core courses cover the complex related mechanical, pneumatic, hydraulic, electrical, thermal and sensory control systems used in modern industry.

Local career opportunities exist in all Northland district communities and throughout the state and nation. Technical employers include power plants, paper mills, saw mills, various utilities and communications companies and small to medium manufacturing companies.

For additional information about the Industrial Maintenance & Operations Program, contact the Program Coordinator at the Painted Desert Campus, (800) 266-7845, ext. 7360.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To earn an **Associate of Applied Science degree in Industrial Maintenance & Operations** the student must complete 19 credits of general education requirements, 24 or 28 credits in an area of specialization, 15 credits of required electives, and two or six credits of unrestricted electives.

■ General Education Requirements • 19 credits

Communications • 6 credits

ENL 101 College Composition I	3	credit
Plus one of the following:		
ENL 102 College Composition II	3	credit
ENL 109 Technical writing	3	credit

Mathematics • 3 credits

Select one of the listed mathematics courses, or any course for which MAT 109 is a prerequisite.

MAT 101 Basic Technical Mathematics3	credit
MAT 109 Algebra I: Introductory3	credit

Computer Science • 3 credits

CIS	S 106	Computer	Literac	v	cred	lit

Arts and Humanities • 3 credits

Select one course from the Arts and Humanities section of the AAS Discipline Studies list on page 64-65.

Physical and Biological Science 4 credits

Select one course from the Physical and Biological Sciences section of the AAS Discipline Studies list on page 65.

AREAS OF SPECIALIZATION

■ Electrical

■ Core Requirements • 24 credits

IMO 151 Electrical Level I	6 credit
IMO 152 Electrical Level II	6 credit
IMO 153 Electrical Level III	6 credit
IMO 154 Electrical Level IV	6 credit

■ Instrumentation

■ Core Requirements • 28 credits

IMO 155 Instrumentation Level I	7 cr	edit
IMO 156 Instrumentation Level II	7 cr	edit
IMO 157 Instrumentation Level III	7 cr	edit
IMO 158 Instrumentation Level IV	7 cr	edit

■ Maintenance Fundamentals

■ Core Requirements • 24 credits

IMO 230 Mechanical Maintenance I	6 credit
IMO 231 Mechanical Maintenance II	6 credit
IMO 232 Mechanical Maintenance III	6 credit
IMO 233 Mechanical Maintenance IV	6 credit

■ Operations/Maintenance

■ Core Requirements • 28 credits

IMO 201 Introduction to Industrial Maintenance4	credit
IMO 210 Power Principles I6	credit
IMO 211 Power Principles II6	credit
IMO 230 Mechanical Maintenance I6	credit
IMO 231 Mechanical Maintenance II6	credit

■ Power Fundamentals

■ Core Requirements • 24 credits

IMO 210 Power	Principles I.	6	credit
IMO 211 Power	Principles II	6	credit
IMO 212 Power	Principles II	I6	credit
IMO 213 Power	Principles IV	V6	credit

■ Required Electives • 15 credits

All areas of specialization require student to complete a minimum of 15 credits from the list of required electives:

AIS 114 Introduction to Modern Office	3 credit
AIS 231 Introduction to Microsoft Office	3 credit
BUS 103 Success on Your Job	2 credit
BUS 105 Techniques of Supervision	3 credit
Any unduplicated IMO courses at 100 or higher le	evel

■ Unrestricted Electives • 2 or 6 credits

Select 2 or 6 credits (depending on selected area of specialization or Certificate of Proficiency) from any unduplicated 100 or higher level courses

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Electrical, Instrumentation, Maintenance Fundamentals, Operations/Maintenance, or Power Fundamentals,** student must complete the core requirements in an area of specialization, ENL 101 or ENL 109 and MAT 101 or MAT 109.

Certificates of Proficiency (CP)

■ Electrical • 24 credits	
IMO 151 Electrical Level I	
IMO 152 Electrical Level II	
IMO 153 Electrical Level III	
IMO 154 Electrical Level IV	6 credit
■ Industrial Plant Operations •	24 credits
IMO 210 Power Principles I	
IMO 211 Power Principles II	6 credit
IMO 212 Power Principles III	6 credit
IMO 213 Power Principles IV	6 credit
■ Instrumentation • 28 credits	
IMO 155 Instrumentation Level I	7 credit
IMO 156 Instrumentation Level II	
IMO 157 Instrumentation Level III	
IMO 158 Instrumentation Level IV	
■ Mechanical Maintenance • 24	credits
IMO 230 Mechanical Maintenance I	6 credit
IMO 231 Mechanical Maintenance II	6 credit
IMO 232 Mechanical Maintenance III	
IMO 233 Mechanical Maintenance IV	6 credit
■ Operations/Maintenance • 28	3 credits
IMO 201 Introduction to Industrial Mainter	
IMO 210 Power Principles I	
IMO 211 Power Principles II	
IMO 230 Mechanical Maintenance I	
IMO 231 Mechanical Maintenance II	
• W	
■ Wastewater Collection and Tre	atment
• 18 credits	
IMO 140 Wastewater Collection and Treatm	ent I6 credit
IMO 141 Wastewater Collection and Treatm	ent II .6 credit
IMO 142 Wastewater Collection and Treatm	ent III 6 credit
■ Water Supply Treatment • 18	credits
IMO 130 Water Supply and Treatment I	
IMO 131 Water Supply and Treatment II	

IMO 132 Water Supply and Treatment III......6 credit

Medical Assistant (MDA) (AAS/CAS) About this Program

The Medical Assistant program provides training in basic anatomy, physiology, and medical terminology. Administrative training includes courses in software application, word processing, medical transcription, insurance billing and coding. Students engage in laboratory training in phlebotomy, medication administration, electrocardiography, vital sign measurement, and preparation for physical and specialty exams. This program meets or exceeds the Arizona State Board of Medical Examiners requirements (R4-15-301 and R4-16-302).

The Medical Assistant program is available at the Winslow – Little Colorado and Show Low – White Mountain campuses and at other locations to meet community needs.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To complete an **Associate of Applied Science degree** in **Medical Assistant** a student must complete 25 general education requirement credits, 30 program core requirements credits and nine credits of required electives.

■ General Education Requirements • 25 credits

Discipline Studies • 16 credits Per the AAS Discipline Studies list on page 64.65

Tel the 11 to Discipline studies list on page 04-05.	
Arts and Humanities	6 credits
Physical and Biological Sciences	4 credits
Social and Behavioral Sciences	6 credits

■ Core Requirements • 30 credits

•
BIO 160 Introduction to Human Anatomy
and Physiology I4 credit
AIS 127 Medical Office Insurance and Coding3 credit
AIS 231 Introduction to MS Office3 credit
HES 109 Phlebotomy4 credit
HES 170 Medical Terminology3 credit
or
AIS 123 Vocabulary for the Medical Office3 credit
HES 120 Law and Ethics3 credit
MDA 120 Administrative Office Procedures3 credit
MDA 123 Clinical Procedures4 credit

MDA 198 Administrative/Clinical Internship3 credit

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■ Required Electives • 9 credits

Select a minimum of nine credits from the following courses:

AIS 102 Business Grammar1	credit
AIS 112 Proofreading1	credit
AIS 113 Basic Memo and Letter Writing1	credit
AIS 115 Ten-key Adding Machine1	credit
AIS 135 Introduction to Medical Transcription3	credit
AIS 235 Advanced Transcription-Medical I4	credit
AIS 236 Advanced Transcription-Medical II4	credit
BUS 210 Principles of Modern Management3	credit
BUS 225 Human Resource Management3	credit
CIS 141 Managing and Maintaining	
Your PC I (A+)3	credit

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Medical Assistant**, a student must complete 36 credit hours: 30 core requirement credits, three credits from ENL 101 and three credits from MAT 103.

Nursing (NUR) (AAS/CAS)

About this Program

Northland Pioneer College Nursing Programs include:

- Nursing Assistant Training
- LPN-RN Transition
- Multiple Exit Program
- RN Refresher Program



These nursing programs prepare students to make application to take the certified nursing assistant exam and the National Council Licensing Examination for practical (NCLEX-PN) and/or registered nursing (NCLEX-RN). Successful completion of the certifying exam prepares students for entry-level position in providing direct patient care. Admission to or graduation from the program at any level does not guarantee licensure by the Arizona State Board of Nursing.

Requirements: Graduates must satisfy the licensing requirements of the State Board of Nursing independently of any college requirements per the Arizona Nurse Practice Act. Under Arizona Law, an applicant could be denied certification as a nursing assistant or licensure as a registered or practical nurse if convicted of a felony or addicted to habit-forming drugs, or if the applicant in any other way fails to meet qualifications required by law.

In 1997 the Nursing Program became part of the Healing Community composed of five rural community colleges and Northern Arizona University that work together on a collaborative basis. The Healing Community designed a common curriculum that provides students an opportunity for seamless articulation from an Associate of Applied Science in Nursing Degree (AAS) to a baccalaureate of nursing degree

(BSN). When the graduate becomes a registered nurse, he or she can apply to Northern Arizona University to complete the upper division courses in nursing that apply to a BSN.

Emphasis: Northland Pioneer College's Multiple Exit Program, approved by the Arizona State Board of Nursing, is offered on the White Mountain (Show Low) and Little Colorado (Winslow) campuses. Many of the required courses for admission and general education courses are available at other NPC campuses and centers. The program of 72 credit hours includes prerequisites and is designed for two academic years dedicated to the study of nursing. After completion of the first year with the addition of the Practical Nurse Completion course, the student nurse can receive a Certificate of Applied Science in Practical Nursing and apply to write the NCLEX-PN. The student nurse may then exit the program or continue on to earn the Associate of Applied Science Degree, and be qualified to take the NCLEX-RN exam.

For the student who is a Licensed Practical Nurse (LPN), who wishes to enter the program to acquire the Associate of Applied Science in Nursing Degree and become a Registered Nurse (RN), the prerequisite requirements are identical to the Multiple Exit Program. The student should meet with an NPC academic adviser and provide evidence of course content and classroom hours for their LPN training. This documentation will be submitted to Records and Registration for determination of assessed credit for NUR 121, NUR 122, and NUR 125. Evaluation and approval of assessed credit does not guarantee admission to the Nursing program. Decisions regarding acceptance are determined by the Nursing Admission Committee. Additional fees may apply for credit by evaluation. Students apply in the fall and complete the LPN to RN transition course in the spring semester. Prerequisites must be complete prior to enrolling in the third semester NUR 221 nursing course. The student is eligible to take the National Council Licensing Examination for Registered Nursing (NCLEX-RN) when the core nursing courses are successfully completed.

■ Student Nurse Guidelines

Patient safety dictates that specific Nursing Program student guidelines apply to this program that are more stringent than the general college student policies. A copy of the *Nursing Program Student Handbook* is issued to students admitted to the program. In case of state-mandated changes, curriculum and/or guidelines could change.

Clinical experiences take place in various health care agencies in and outside of Northland's district. Hours may vary from the class schedule depending on the clinical placement. Travel and overnight stays may be required.

■ Prerequisites for Program Admission

Courses

Before the student will be considered eligible to enter the

Nursing Program, certain prerequisites must be met. Successful completion with a 'C' grade or better for each class and a cumulative GPA of 'B' (3.0 on a 4.0 scale) is required.

BIO 181 General Biology	4 credit
BIO 201 Human Anatomy and Physiology I	.4 credit
BIO 202 Human Anatomy and Physiology II	4 credit
CHM 130 Fundamental Chemistry	4 credit
BIO 205 Microbiology	4 credit
ENL 101 College Composition I	3 credit

Licensing Requirements

Applicants to the nursing program must complete Nursing Assistant Training (NAT 101), or a comparable state-approved course, and must hold a current Arizona Certified Nursing Assistant (CNA) license in good standing.

Applicants to the LPN to RN program must hold a current Arizona Licensed Practical Nurse (LPN) license in good standing.

Applicants to the RN Refresher program must acquire a temporary license from the Arizona State Board of Nursing.

■ Admission to the Nursing program

Note: Admission to the college does not guarantee admission to the Nursing Program.

- Students must be admitted to the Nursing Program in order to enroll in nursing courses. (Admission information is available in the academic advising and the nursing program areas.)
- Completed nursing application should be submitted on or before the designated deadline that is noted in the application packet. Late applicants may be accepted on a space-available basis if they meet the admission criteria but not before applicants who submit applications on time.
- All prerequisite courses must be completed prior to the fall semester of admission to the program.
- Admission Selection:
 - Admission criteria will include: HESI Admission Assessment test composite and cumulative scores, prerequisite GPA, overall GPA, letters of recommendation, applicant statement, and faculty or adviser recommendations. The factors will be weighted by the committee. Significant weight will be given to the HESI composite percentage and prerequisite GPA. Admission is contingent upon completion of program prerequisites by the end of the summer semester.
- General Education and core requirements must be completed as listed on the curriculum outline in the program admission information packet.
- College credits over eight years old may be acceptable. For a determination, provide appropriate documentation to the dean of nursing and allied health.

• Transfer students for second, third or fourth semesters are considered on an individual basis. Criteria include course comparables, GPA, specified examination results, and recommendation from previous program director.

Associate of Applied Science Registered Nursing (AAS)

About this Degree • 72 credits

To earn an Associate of Applied Science Registered Nursing degree, the student must complete the following 72 credits.

■ General Education Requirements • 32 credits

Communications • 6 credits

ENL 101	College	Composition	I	.3	credit
ENL 102	College	Composition	II	. 3	credit

Mathematics

Compass Algebra score of 46 or ASSET Elementary Algebra score of 41 or ACT Math score of 21 within one year prior to application to the nursing program.

Arts and Humanities

No requirements

Physical and Biological Sciences • 20 credits

CHM 130 Fundamental Chemistry	4 credit
BIO 181 General Biology	4 credit
BIO 201 Human Anatomy and Physiology I	4 credit
BIO 202 Human Anatomy and Physiology II	4 credit
BIO 205 Microbiology	4 credit

Social and Behavioral Sciences • 6 credits

PSY 240 Developmental Psychology	3 credit
Plus one of the following:	
ANT 102 Cultural Anthropology	3 credit
SOC 120 General Sociology	3 credit

■ Core Requirements • 40 credits

NUR 117 Pharmacology I	2 credit
NUR 118 Pharmacology II	2 credit
NUR 121 Nursing I	8 credit
NUR 122 Nursing II	8 credit
NUR 125 Practical Nurse Completion	2 credit
NUR 221 Nursing III	8 credit
NUR 222 Nursing IV	8 credit
NUR 219 NCLEX Review Seminar	2 credit

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Certificate of Applied Science Practical Nursing (CAS)

To complete the Certificate of Applied Science in Practical Nursing, the student must complete a total of 51 credits as follows: 29 General Education Requirements, and 22 credits from Core Requirements.

■ General Education Requirements • 29 credits

BIO 181 General Biology	4 credit
BIO 201 Human Anatomy and Physiology I	.4 credit
BIO 202 Human Anatomy and Physiology II	4 credit
BIO 205 Microbiology	4 credit
CHM 130 Fundamental Chemistry	4 credit
ENL 101 College Composition I	3 credit
ENL 102 College Composition II	3 credit
PSY 240 Developmental Psychology	3 credit

■ Core Requirements • 22 credits

NUR 118 Pharmacology II2 cred	lit
NUR 121 Nursing I8 cred	lit
NUR 122 Nursing II8 cred	lit
NUR 125 Practical Nurse Completion2 cred	lit

Nursing Assistant (NAT) (CRT) About this Program

Northland Pioneer College offers nursing assistant training at various campuses/centers. The Nursing Assistant course includes the required course content and hours specified by the Arizona Nurse Practice Act. Upon completion of the course the student is eligible to take the Arizona state test to become a Certified Nursing Assistant (CNA).

Requirements: Under the Arizona Nurse Practice Act, an applicant can be denied certification as a nursing assistant if convicted of a felony or addicted to habit-forming drugs or if the applicant in any other way fails to meet qualifications required by law. Upon passing the course with a grade 'C' or better the Nursing Program awards the student a **Certificate of Completion**.

Certificate of Completion

`	TAT	101	Nursing Assistant	_		1.	
- l'	NAI	1()1	Niirsing Assistant	7 (rec	11	1

Paramedicine (EMT) (AAS/CAS/CP) About this Program

The Paramedicine program, under the regulations of the Arizona Department of Health Services (DHS) with the cooperation of local, state and private medical institutions and emergency medical services agencies, educates EMT Basics up to the level of Paramedic. The program utilizes the most current standards of the National Association of EMS Educators.

The NPC Paramedicine program also fulfills the Arizona Department of Health Services mandatory requirement of 500 hours of didactic training with 500 hours of clinical and vehicular training.

To obtain further information, contact the Paramedicine Program at the White Mountain Campus in Show Low, (800) 266-7845, ext. 6715.

Associate of Applied Science (AAS)

About this Degree • 70 credits

The Associate of Applied Science degree in Paramedicine requires 18 general education credits and 52 credit hours of core requirements. The core requirement credits are divided into the preparatory course of Basic Electrocardiogram (ECG) and Pharmacology followed by completion of Paramedic Training I and II.

Prerequisites to qualify for acceptance into the program include: (1) be an Arizona certified EMT-Basic with a minimum of one year experience. (2) Meet NPC placement requirements for ENL 101 (College Composition I) and MAT 101 (Basic Technical Mathematics). (3) Have successfully completed a hazardous materials first responder course (minimum 24 clock hours). (4) have a TB skin test within six months of the start of the program and MMR and hepatitis B immunization or waiver.

In addition, applicant must pass a written exam, a practical skills test and an oral interview.

■ General Education Requirements • 18 credits

Communications • 6 credits

ENL 101 College Composition I	3 credi
Plus one of the following:	
ENL 102 College Composition II	3 credi
ENL 109 Technical Writing	3 credit
SPT 120 Public Speaking	3 credit

Mathematics • 3 credits

Select one of these mathematics courses, or any course for which MAT 112 is a prerequisite.

MAT 101 Basic Technical Mathematics	3 credit
MAT 103 Business Mathematics	3 credit
MAT 105 Mathematics for General Education	3 credit
MAT 109 Algebra I: Introductory	3 credit
MAT 112 Algebra II: Intermediate	3 credit

Arts and Humanities • 3 credits

Select one Arts and Humanities course from the AAS Discipline Studies list on page 64-65. (PHL 105 is recommended but not required).

Social and Behavioral Sciences • 6 credits

PSY 101	Introdu	ıctic	n to	Psy	chology	7		3 credit
and								
			~		1 5 1		1.0	

■ Core Requirements • 52 credits

EMT 240 Basic ECG and Pharmacology	3 c	credit
EMT 244 Paramedic Training I	23	credit
EMT 245 Paramedic Training II	26	credit
Plus 500 clinical and vehicular hours are mandatory f	or	
completion of any paramedic program per AZDHS.		

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Paramedicine** a student must complete the 52 core requirement credits, ENL 101, and MAT 101 or MAT 103 or MAT 105 or MAT 109 or MAT 112 or any mathematics course for which MAT 112 is a prerequisite.

Certificate of Proficiency (CP)

To complete the Certificate of Proficiency in Paramedicine, the student must complete the following 52 credits:

EMT 240 Basic ECG and Pharmacology	3 credit
EMT 244 Paramedic Training I	.23 credit
EMT 245 Paramedic Training II	.26 credit
Plus 500 clinical and vehicular hours are mandatory fo	γ
completion of any paramedic program per AZDHS.	

Photography Technician (PHO)

(AAS/CAS/CP)

About this Program

The Photography Technician program prepares graduates to apply technical skills and aesthetics in photography. Photographers and camera operators use camera and film to portray people, places and events much as writers use words.

Salaried jobs for photographers are found, for the most part, in photographic or commercial art studios. About half of all photographers and camera operators are self-employed. Many are freelance photographers who do individual projects on a one-time only or occasional basis.

Local career opportunities exist in all Northland district communities in varying degrees, but career opportunities also exist in suburban and metropolitan areas throughout the state and nation. Related occupations include visual artists, illustrators, designers, painters, sculptors, and graphic communications technicians.

Career opportunities exist in the private and public sectors, both locally and nationally. Computer technology continues to expand in our economy.

The Photography Technician program at NPC is available at the White Mountain Campus in Show Low, Painted Desert Campus in Holbrook and the Springerville/Eagar Center. Interested persons from other communities will probably need to attend part or most of the program at these Northland locations.

Associate of Applied Science (AAS)

About this Degree • 64 credits

To earn an **Associate of Applied Science degree in Photography Technician** the student must complete 16 general education credits, 27 core requirement credits, 15 credits of required electives, and six credits of unrestricted electives.

■ General Education Requirements • 16 credits

Communications • 6 credits

ENL 101 College Composition I	3 credit
Plus one of the following:	
ENL 102 College Composition II	3 credit
ENL 109 Technical Writing	3 credit
SPT 120 Public Speaking	3 credit

Mathematics • 3 credits

MAT 101 Basic Technical Mathematics3 credit

Discipline Studies • 7 credits

Per the AAS Discipline Studies list on page 64-65.

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■ Core Requirements • 27 credits Welding (WLD) (AAS/CAS/CP) PHO 100 Beginning Photography......3 credit PHO 115 Pictorial Journalism3 credit **About this Program** PHO 200 Intermediate Photography......3 credit The Welding Program is designed to teach incremental levels of welding skills, which enable students to achieve nationally PHO 213 Color Photography II......3 credit recognized certifications (NCCER/AWS Level 1 Entry Level PHO 220 Advanced Photography......3 credit Welder and Level 2 Advanced Level Welder). Industry markets PHO 230 View Camera Photography......3 credit acknowledge each certificate level is proof of acquired skills PHO 240 Photography Portfolio......3 credit in various forms of welding, cutting, base metal preparation, PHO 250 Photography As An Art Medium......3 credit welding inspection, safety, and metallurgy. This prepares ■ Required Electives • 15 credits students for certification tests in specific welding code Select a minimum of 15 credits from the following list: applications, such as AWS, API, and ASME Sec IX. In addition to welder certifications, students are afforded the BUS 100 Introduction to Business......3 credit opportunity to obtain Certificates of Proficiency, Certificate of BUS 110 Small Business Management......3 credit Applied Science and an Associate of Applied Science degree. Certification Levels from Northland enhance career opportunities for graduates as certified welders throughout the nation. ■ Unrestricted Electives • 6 credits Select any unduplicated 100 or higher level courses. Associate of Applied Science (AAS) Certificate of Applied Science (CAS) About this Degree • 64 credits To complete a Certificate of Applied Science in To earn an Associate of Applied Science degree in Photography Technician, a student must complete the core Welding the student must complete 16 general education requirement credits, ENL 101 and MAT 101. requirement credits, 45 credits of core requirements, and three credits of required electives. Certificates of Proficiency (CP) ■ General Education Requirements • 16 credits ■ Black and White Photography • 17 credits Communications • 6 credits PHO 100 Beginning Photography......3 credit PHO 115 Pictorial Journalism 3 credit Plus one of the following: ENL 102 College Composition II......3 credit PHO 220 Advanced Photography......3 credit ENL 109 Technical Writing......3 credit PHO 230 View Camera Photography......3 credit SPT 120 Public Speaking.......3 credit PHO 280 Photography Practicum2 credit Mathematics • 3 credits ■ Color Photography • 16.5–21 credits MAT 101 Basic Technical Mathematics3 credit PHO 100 Beginning Photography......3 credit MAT 152 Advanced Algebra3 credit Discipline Studies • 7 credits Select Per the AAS Discipline Studies list on page 64-65. PHO 213 Color Photography II......3 credit PHO 245 Photography Desktop Publishing......3 credit ■ Core Requirements • 45 credits LEVEL I (19 credits) ■ Photography Marketing • 18 credits WLD 100 Safety and Mathematics......2 credit PHO 100 Beginning Photography......3 credit WLD 150 Symbols, Drawings/Metal Preparation...2 credit PHO 200 Intermediate Photography......3 credit WLD 151 Cutting Process and Welding Quality 3 credit WLD 152 SMAW Plate I3 credit WLD 153 SMAW Plate II......3 credit PHO 240 Photography Portfolio......3 credit WLD 154 GMAW Plate3 credit PHO 245 Photography Desktop Publishing......3 credit

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PHO 270 Freelance/Stock Photography....... 3 credit

WLD 155 GTAW Plate......3 credit

Level II (26 credits)

WLD 260 Weld	Fit Up/Inspection/Metallurgy	2 credit
WLD 261 SMAY	W Open V-Butts/Plate I	3 credit
WLD 262 SMAY	W Open V-Butts/Plate II	3 credit
WLD 263 SMAY	W Open Root/Pipe I	3 credit
WLD 264 SMAY	W Open Root/Pipe II	3 credit
WLD 265 GMA	W Pipe	3 credit
WLD 266 FCAV	W Pipe	3 credit
WLD 267 GTAV	W Pipe I	3 credit
WLD 268 GTAV	W Pipe II	3 credit

■ Required Electives • 3 credits

Student must complete a minimum of three credits from the following:

Certificate of Applied Science (CAS)

To complete a **Certificate of Applied Science in Welding**, a student must complete the core requirements, ENL 101 and MAT 101.

Certificates of Proficiency (CP)

■ Gas Tungsten Arc Welding (TIG)

• 9 credits

WLD 155 GTAW Plate	3 credit
WLD 267 GTAW Pipe I	3 credit
WLD 268 GTAW Pipe II	3 credit

■ Gas Metal Arc Welding (MIG)

• 6 credits

WLD	154	GMAW	Plate3	credit
WLD	265	GMAW	Pipe3	credit

■ Plastic Welding • 8 credits

WLD 240 Intro to Plastics	2 credit
WLD 241 Plastic Welding	2 credit
WLD 242 Fabrication of Plastics	2 credit
WLD 243 Plastic Welding	2 credit

■ Shielded Metal Arc Welding (Arc)

• 12 credits

WLD 152 SMAW	Plate I	3 credit
WLD 153 SMAW	Plate II	3 credit
WLD 261 SMAW	Open V-Butts/Plate I	3 credit
WLD 262 SMAW	Open V-Butts/Plate II	3 credit

■ Welding Level I – Entry Level Welder • 19 credits

WLD 100 Safety	and Math	2 credit
WLD 150 Symbo	ls, Drawings/Metal Preparation?	2 credit
WLD 151 Cutting	g Process and Welding Quality	3 credit
WLD 152 SMAW	Plate I	3 credit
WLD 153 SMAW	Plate II	3 credit
WLD 154 GMAV	V Plate	3 credit
WLD 155 GTAW	' Plate	3 credit

■ Welding Level II – Advanced Welder • 26 credits

Student must complete all of the requirements for Welding Level I and receive a **Certificate of Proficiency** for Level I before receiving the Welding Level II certificate.

WLD 260	Weld Fit	Up/Inspection/N	/letallurgy	2 credit
WLD 261	SMAW (Open V-Butts/Plate	e I	3 credit
WLD 262	SMAW (Open V-Butts/Plate	e II	3 credit
WLD 263	SMAW (Open Root/Pipe I		3 credit
WLD 264	SMAW (Open Root/Pipe II	I	3 credit
WLD 265	GMAW :	Pipe		3 credit
WLD 266	FCAW P	ipe		3 credit
WLD 267	GTAW P	ipe I		3 credit
WLD 268	GTAW F	ipe II		3 credit

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