START HERE!

Take time to prepare for your educational journey and it will be a rewarding one.

www.wnc.edu/starthere/

Apply for Admission
www.wnc.edu/starthere/

Take Placement Tests
Students who have not taken the ACT or SAT will need to take placement tests. Appointments for testing are made through WNC’s Counseling Services Office.

Attend an Orientation
New student orientation helps you make a successful transition to college. Learn about academic expectations and campus resources.

Meet with a Counselor
Before registering for classes, meet with a counselor for academic advisement. Our counselors can help you plan a schedule that works for you and your goals.

Apply for Financial Aid & Scholarships
There are more financial aid and scholarship opportunities than ever before to help make college affordable. Grants, loans and on-campus student work are available.

Attending WNC for a career upgrade or workforce development?

Taking a few credit classes for personal interest?

There is a special checklist just for you! Visit www.wnc.edu/starthere/

Enroll in a College Success Class
Strategies for Academic Success (EPY 150) is a college-level, transferable course that offers tips for productive studying, test-taking and other college learning tools.

Register for Classes
Class enrollment is done through myWNC at my.wnc.edu.

Pay Fees
Pay attention to payment deadlines or enroll in a payment plan to avoid being dropped from classes.
PROFESSIONAL AND APPLIED TECHNOLOGY
Learn technical skills that lead to jobs in the New Nevada.

INDUSTRY CREDENTIALS
Be ready to enter the workplace in as little as eight weeks.

CERTIFICATES OF ACHIEVEMENT
Expand your skills with a one-year certificate.

ASSOCIATE OF APPLIED SCIENCE DEGREES
Earn a degree in two years.

MAKE MONEY
Earn up to $10,000 more annually with industry certifications

GET HIRED
Industry certifications prove to employers you have the skills they need

PROGRAMS AND CAREER PATHWAYS

Accounting
Automated Systems
Automotive Mechanics

Computer Information Technology
Construction Management
Criminal Justice

Deaf Studies
Education
General Business
General Industrial Technology
Graphic Design

Machine Tool Technology
Management
Mechatronics
Nursing & Allied Health
Welding

CERTIFICATES OF ACHIEVEMENT AND INDUSTRY CERTIFICATIONS
WNC offers more than 20 industry-recognized credentials for skill development and career advancement.

ASSOCIATE OF APPLIED SCIENCE DEGREE
WNC offers two-year career preparation programs in many areas. Students learn technical skills that lead to jobs.

ASSOCIATE OF GENERAL STUDIES DEGREE
This general degree fits a wide variety of needs. Work closely with a counselor to determine if this degree meets your goals.

BACHELOR OF APPLIED SCIENCE DEGREE
A four-year Bachelor of Applied Science degree in Construction Management is available to help students climb a career ladder from learning basic construction skills, to becoming a construction manager.

ATTEND COLLEGE ONLINE
Learn at times of the day that are convenient for you, while maintaining your commitments to work and/or family.
TRANSFER DEGREES

ASSOCIATE OF ARTS • ASSOCIATE OF BUSINESS • ASSOCIATE OF SCIENCE

Transfer degrees are for individuals who plan to transfer from WNC to a four-year college or university to pursue a bachelor’s degree.

At WNC, students receive quality education at a lower cost, with smaller classes and a comfortable learning environment.

JUMP START YOUR COLLEGE DEGREE

Complete core college courses while in high school • Real college courses, on a real college schedule
Credits transfer to a university • Industry-recognized credentials

The Jump Start program is a dual-enrollment opportunity for students attending Nevada high schools. Students enroll in college courses through Western Nevada College while simultaneously earning high school credits.

www.wnc.edu/jump-start/

PREPARE TO TRANSFER TO A UNIVERSITY

High school students can earn up to a transferable Associate of Arts college degree and their high school diploma at the same time. All credits transfer to Nevada System of Higher Education institutions. Jump Start graduates have successfully transferred their credits and are completing bachelor degrees at Brigham Young University, Stanford, Cal Poly and other out-of-state institutions.

APPLIED TECHNOLOGY OPPORTUNITIES

Students interested in Applied Technology can earn 24 college units as well as industry credentials in high-demand, high-wage jobs.
ADMISSIONS & RECORDS
Our admissions team can help you access your myWNC account, assist you with registration and more!
www.wnc.edu/admissions | 445-3277

BUSINESS OFFICE/PAYMENTS
Paying fees on time is important for student success. WNC’s Business Office offers payment plans to make paying for college easier.
www.wnc.edu/admissions/fees | 445-4221

COUNSELING SERVICES
Academic advising is available to help students make important decisions regarding educational goals and career pathways. The goal of our Counseling Office is to help you stay on track toward graduation.
www.wnc.edu/counseling | 445-3267

DISABILITY SUPPORT SERVICES / CAREERCONNECT
Students with disabilities are provided equal access to higher ed through academic support services, technology and advocacy. The CareerConnect program works closely with DETR-VR to offer coordinated service provision that leads to successful employment.
www.wnc.edu/dss | 445-4402

FINANCIAL ASSISTANCE
Our financial assistance team aims to help reduce financial barriers so you can thrive at WNC.
www.wnc.edu/financial | 445-3264

LATINO OUTREACH
Our Latino Outreach team is dedicated to assisting first-generation Latino students in order to promote enrollment, course completion and degree attainment.
www.wnc.edu/latino-outreach | 445-3215

VETERANS RESOURCE CENTER
With the motto of “Vets helping Vets” this office focuses on assisting vets and their families in the transition to higher education.
www.wnc.edu/veterans-resource-center | 445-3302

Carson City Campus
2201 W. College Parkway
Carson City, NV 89703
775-445-3000

Douglas Campus
1680 Bently Parkway South
Minden, NV 89423
775-782-2413

Fallon Campus
160 Campus Way
Fallon, NV 89406
775-423-7565

www.wnc.edu
# FIND WHAT YOU NEED

Inside, you will find course requirements for degrees and certificates. You will also find program information for more than 15 career pathways, in which you can earn a certificate in as little as 8 weeks, or achieve a degree in two years.

WNC’s Counseling team is available to help you make important decisions about your future and develop an education plan that meets your goals.

## STUDENT LEARNING OUTCOMES

2

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Student learning is the core of WNC’s mission, and the college celebrates this importance with institution-wide student learning outcomes. The WNC Student Learning Outcomes (SLOs) guide all courses, programs and degrees offered by WNC.

SLOs one through six provide the structure for general education and alignment for academic program outcomes;

SLO seven provides a connection for career preparation emphases.

General education provides a broad educational foundation that is essential to meeting educational, social, personal and career goals. WNC’s general education curriculum consists of rigorous, interrelated academic experiences that introduce students to diverse ways of thinking and understanding their world. Through a range of connected learning experiences, general education introduces students to a breadth of knowledge that complements and prepares students for the depth provided in a completed degree program.

Upon completing a degree at WNC, students must demonstrate:

1. WORKING KNOWLEDGE – Identify, describe and apply information, theories, methodologies and approaches from the sciences, social sciences and humanities/arts.

2. WRITTEN COMMUNICATION – Write effective projects, papers, and reports.

3. QUANTITATIVE LITERACY – Present accurate calculations and symbolic operations, and explain how such calculations and operations are used in either the specific field of study or in interpreting information in other fields.

4. INFORMATION LITERACY – Locate, evaluate and appropriately use information from multiple resources to complete projects, activities and papers.

5. DIVERSITY AND SOCIETY – Describe diverse historical and/or contemporary positions on selected democratic values or practices.

6. CRITICAL THINKING – Integrate knowledge and skills from the study of sciences, mathematics, social sciences and the humanities/arts to think critically about and develop solutions to contemporary and/or enduring problems.

7. CAREER PREPARATION – Identify, describe and apply information in the discipline or career area of their choice sufficient for further study and/or demonstrate competencies required to succeed in the workplace.
At WNC, students can complete the first two years of a bachelor’s degree and transfer to a 4-year college or university with junior status. Students may select a course of study that enables them to complete some or all of the lower division requirements for a four-year degree at many colleges or universities including the University of Nevada, Reno; University of Nevada, Las Vegas; Nevada State College; and schools in other states.

### Silver State Transfer Program
**CO-ADMISSION TO THE UNIVERSITY OF NEVADA, RENO**

Students who intend to transfer to UNR after completing their associate degree at WNC may consider co-admission at UNR. By participating, they have the opportunity to work one-on-one with advising specialists as they transition to the University of Nevada, Reno. The purpose of the program is to support community college students as they prepare to transfer, ensuring a smooth transition to the baccalaureate degree. Students who are in the program may take courses from both the community college and the university at the same time that they are pursuing their transferable associate degree. The community college remains the home campus for co-admitted students.

To learn more: [https://www.unr.edu/transfer/nevada-and-california-transfer/silver-state-transfer-program](https://www.unr.edu/transfer/nevada-and-california-transfer/silver-state-transfer-program)

### PREPARE FOR THESE AREAS OF STUDY:

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Civil Engineering</th>
<th>General Studies</th>
<th>Marketing</th>
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<tr>
<td>Accounting Information Systems</td>
<td>Communication Studies</td>
<td>Geography</td>
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<td>Agriculture Science</td>
<td>Community Health Sciences</td>
<td>Geological Engineering</td>
<td>Mechanical Engineering</td>
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<td>Animal Science</td>
<td>Computer Science &amp; Engineering</td>
<td>Geology</td>
<td>Metallurgical Engineering</td>
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<tr>
<td>Anthropology</td>
<td>Counseling &amp; Educational Psychology</td>
<td>Geophysics</td>
<td>Mining Engineering</td>
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<tr>
<td>Art</td>
<td>Criminal Justice</td>
<td>History</td>
<td>Music</td>
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<tr>
<td>Art History</td>
<td>Ecohydrology</td>
<td>Human Development &amp; Family Studies</td>
<td>Music Education</td>
</tr>
<tr>
<td>Astronomy</td>
<td>Economics</td>
<td>Hydrogeology</td>
<td>Music: Applied</td>
</tr>
<tr>
<td>Atmospheric Science</td>
<td>Education</td>
<td>Information Systems</td>
<td>(Instrumental, Jazz, Voice)</td>
</tr>
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<td>Biochemistry &amp; Molecular Biology</td>
<td>English</td>
<td>Integrated Elementary Teaching</td>
<td>Natural Resources &amp; Environmental Science</td>
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<tr>
<td>Biology</td>
<td>Electrical Engineering</td>
<td>International Affairs</td>
<td>Neuroscience</td>
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<td>Biomedical Engineering</td>
<td>Engineering Physics</td>
<td>International Business</td>
<td>Nutrition</td>
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<td>Biotechnology</td>
<td>Environmental Engineering</td>
<td>Journalism</td>
<td>Nursing</td>
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<td>Business</td>
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<td>Management</td>
<td>Philosophy</td>
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<tr>
<td>Business Administration</td>
<td>Finance</td>
<td>Materials Science &amp; Engineering</td>
<td>Physics</td>
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<tr>
<td>Chemical Engineering</td>
<td>Forest Management &amp; Ecology</td>
<td>Mathematics</td>
<td>Political Science</td>
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<tr>
<td>Chemistry</td>
<td>French</td>
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</tbody>
</table>

**NOTE:** All courses to be counted toward AA, AB or AS degrees must be university transferable. Courses with a number under 100 (such as ENG 95) are not applicable toward the associate degree.

Courses that are not transferable are indicated with a nontransferable course attribute in the myWNC course catalog. A maximum of six units of special topics classes in one subject area may apply toward any WNC degree. See a counselor for the most current information about transferring to another institution.
THE ASSOCIATE OF ARTS TRANSFER DEGREE

This degree allows early choices for those planning a professional life in art, communication, education, history, psychology, social sciences, social work or a related field.

The Associate of Arts degree is for students planning to transfer with junior standing to a four-year college or university for a bachelor’s degree.

MISSION: The mission of the Associate of Arts degree program is to provide the academic knowledge and skills for successful transfer to meet higher education goals.

STUDENT LEARNING OUTCOMES: The successful student will:

- Meet the institutional student learning outcomes (1-6).
- Identify, describe and apply information, theories, methodologies and approaches from social sciences, humanities or arts.
- Produce effective projects, papers and reports.
- Integrate knowledge and skills from the study of social sciences, humanities or arts to think critically about and develop solutions to contemporary or enduring problems.
- Be prepared to succeed at a transfer institution.

ENGLISH/COMMUNICATIONS
6–8 UNITS

- English: 100 or 101, 102

FINE ARTS
3 UNITS

- Art: 100, 101*, 135, 124, 141, 175, 160, 211, 214, 231, 260, 261
- Humanities: 101
- Music: 121, 124, 125, 176
- Music: Ensemble: 101*, 131, 135

*Course may not meet the fine arts requirement at all universities. Please see a counselor.

HUMANITIES
3 UNITS

- Core Humanities: 201, 202
- English: 200, 223
- History: 105, 106, 208, 209, 247
- Philosophy: 101, 135, 200, 203, 204, 207, 210, 224
- Music: 121, 124, 125, 176
- Music: Ensemble: 101*, 131, 135
- Theatre: 100, 105*, 180

*Course may not meet the fine arts requirement at all universities. Please see a counselor.

SOCIAL SCIENCES
3 UNITS

- Anthropology: 101, 201, 202, 212, 215
- Core Humanities: 201, 202
- History: 105, 106
- Philosophy: 200, 207

U.S. & NEVADA CONSTITUTION
3–6 UNITS

- Biology: 100, 113, 190, 191, 200
- Chemistry: 100, 121, 122
- Environmental Studies: 100, 101
- Geography: 103, 104
- Geology: 100, 102, 103, 105, 121, 201
- Nutrition: 121
- Physics: 100, 151, 152, 180 & 180L

*Note: Completion of CHEM 121 or BIOL 190, BIOL 223 and BIOL 224, and BIOL 251 fulfills the science general education requirement.

PROGRAM REQUIREMENTS

LIBERAL ARTS
6 UNITS

Choose from the following. Courses used to meet general education requirements may also be used to fulfill Liberal Arts requirements:

- Any foreign language course numbered 200 or higher (AM 147, 148 accepted)
- ART, ENG, MUS, THTR numbered 200 or higher
- CH, HIST, PHIL numbered 200 or higher
- ANTH, CRJ, ECON, HGPS, PSC, PSY, SOC, SW numbered 200 or higher
- GEOG 200, HDFS numbered 200 or higher

TRANSFER REQUIREMENTS OR GENERAL ELECTIVES
22–27 UNITS

Students should utilize this area to take courses that meet requirements for their major at their intended transfer school. Those who have not yet selected a major may choose from among any university transferable courses to explore their options. Students planning to transfer to the University of Nevada, Reno should obtain a transfer agreement from WNC Counseling Services or the UNR Transfer Center.

GENERAL EDUCATION REQUIREMENTS
33–38 UNITS

ENGLISH/COMMUNICATIONS
6–8 UNITS

- English: 100 or 101, 102

FINE ARTS
3 UNITS

- Art: 100, 101*, 135, 124, 141, 175, 160, 211, 214, 231, 260, 261
- Humanities: 101
- Music: 121, 124, 125, 176
- Music: Ensemble: 101*, 131, 135
- Theatre: 100, 105*, 180

*Course may not meet the fine arts requirement at all universities. Please see a counselor.

HUMANITIES
3 UNITS

- Core Humanities: 201, 202
- English: 200, 223
- History: 105, 106, 208, 209, 247
- Philosophy: 101, 135, 200, 203, 204, 207, 210, 224

*Course may not meet the fine arts requirement at all universities. Please see a counselor.

SOCIAL SCIENCES
3 UNITS

Choose from the following list:

- Anthropology: 101, 201, 202, 212, 215
- Core Humanities: 203
- Criminal Justice: 101, 102
- Economics: 100, 102, 103
- Geography: 106, 200
- History: 101, 102, 111, 217
- Political Science: 103, 208, 231
- Psychology: 101, 102, 233, 234, 240, 257, 261
- Sociology: 101

U.S. & NEVADA CONSTITUTION
3–6 UNITS

- Biology: 100, 113, 190, 191, 200
- Chemistry: 100, 121, 122
- Environmental Studies: 100, 101
- Geography: 103, 104
- Geology: 100, 102, 103, 105, 121, 201
- Nutrition: 121
- Physics: 100, 151, 152, 180 & 180L

*Note: Completion of CHEM 121 or BIOL 190, BIOL 223 and BIOL 224, and BIOL 251 fulfills the science general education requirement.

This degree allows early choices for those planning a professional life in art, communication, education, history, psychology, social sciences, social work or a related field.
WNC has 2+2 partnerships with UNR and many other institutions to make completing your degree at WNC and transferring later as smooth as possible. The Associate of Arts degree is designed so students may tailor it to meet degree requirements for a variety of majors at transfer institutions.

**ART**
Explore your creative side by studying art history, painting, sculpture, ceramic, photography, print making and digital media. Careers in graphic design, interior design, teaching and more are possible with an art degree.

**CRIMINAL JUSTICE**
Students can explore and prepare for various career opportunities in criminal justice, law enforcement, parole and probation and more.

**EDUCATION**
Educating Nevada’s youth is a rewarding career that is in high demand in our state. Through a partnership with Nevada State College, students who earn an AA at WNC can take classes at WNC and online to earn a bachelor’s degree without leaving the area. Students can also transfer to UNR or another college to pursue a degree in education.

**GENERAL STUDIES**
Students who are undecided about their career or feel their interests require an individualized approach can explore a variety of academic disciplines and professional fields.

**GRAPHIC DESIGN**
Students interested in earning a bachelor degree in Graphic Design can complete an Associate of Arts degree at WNC and then transfer and earn a bachelor degree from the University of Nevada, Reno or Truckee Meadows Community College (granted through Nevada State College) Courses with an * direct transfer to UNR or TMCC. Students should work closely with a counselor when planning their schedules.

**HISTORY**
An appreciation for research and historic exploration can open doors to career opportunities that value historical research and writing skills, such as teaching, research analytics, archiving, law, and more.

**HUMAN DEVELOPMENT AND FAMILY STUDIES**
A passion to work with individuals and families can lead to a variety of career options. HDFS grads are in demand in businesses, community settings and organizations because of their knowledge of family and group dynamics and their skills in program development and training.

**JOURNALISM**
Turn your passion for storytelling into a career in news, advertising, public relations, and other media. The professional world has many opportunities for individuals with an ability use written and oral communication to influence others.

**PSYCHOLOGY**
Psychology is one of the largest majors at UNR and complements many career fields. Understanding principles of behavior can aid in communication, supervising and many other facets of professional life.

**SOCIOLOGY**
If society and social classes interest you, then sociology is your career path. Students with this bachelor’s degree pursue careers in criminal justice, journalism, political science and more.

**SOCIAL WORK- WNC/UNR 3+1 COLLABORATIVE**
As a profession, social work supports the welfare of individuals in a community by tackling problems related to poverty, discrimination, addiction, domestic violence and disabilities. Students can complete nearly 3 years (5 semesters) of a UNR social work bachelor degree at WNC.
This degree allows early choices for those planning a professional career in business, management, accounting, marketing or a related field.

The Associate of Business degree is designed for students who intend to transfer with junior status to a four-year college or university for a bachelor degree in a business-related field.

MISSION: The purpose of the Associate of Business degree is to provide the academic knowledge and skills for successful transfer to meet higher education goals.

STUDENT LEARNING OUTCOMES: Students who complete an Associate of Business degree at WNC are expected to demonstrate that they...

• Articulate and demonstrate their personal employment related knowledge, skills and abilities.
• Evaluate the impact of various economic systems and policies.
• Summarize, record, analyze, interpret and communicate accounting and financial information for decision-making.
• Devise, implement and evaluate managerial decisions, actions and outcomes.
• Apply technology to aid in communications and decision-making.
• Present research, data, analysis and conclusions through written and oral means.
• Describe the changing landscape of the global market and its impact on the United States.
• Summarize the impact of social, ethical, legal and diversity issues within contemporary business.
• Develop business, financial and marketing plans for established and emerging businesses.

SUGGESTED COURSE SEQUENCE

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<td>ENG 102</td>
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<td>ECON 103</td>
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<td>IS 101</td>
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<tr>
<td>Science Course</td>
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<td>U.S./Nev. Constitution</td>
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<tr>
<td>ACC 201</td>
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<td>ECON 261</td>
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<td>General Elective</td>
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<td>Humanities Course</td>
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<td>Science Course</td>
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<th>FOURTH SEMESTER</th>
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<td>ACC 201</td>
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<td>Humanities Course</td>
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<td>General Elective</td>
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<td>MKT 210</td>
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</table>

PROGRAM REQUIREMENTS

27 UNITS

Accounting: 201, 202
Economics: 102, 103, 261, 262
Information Systems: 101
Marketing: 210
Mathematics: 176

NOTE: If student does not meet the prerequisite for MATH 176, MATH 126 may be used as a degree elective and should be taken in the first semester.

TRANSFER REQUIREMENT OR GENERAL ELECTIVES - 12 units

Students should take courses that meet requirements for their major at their intended transfer school. Students planning to transfer to the University of Nevada, Reno should obtain a transfer handout from WNC Counseling Services or the UNR Transfer Center. Recommended: BUS 101

For UNR transfer, COM 101 or 113 and 2 courses from Anthropology 101, Political Science 231, Psychology 101, Sociology 101 are recommended.

GENERAL EDUCATION REQUIREMENTS

A MINIMUM OF 21 UNITS

ENGLISH/COMMUNICATIONS

6 UNITS

English: 101, 102

FINE ARTS

3 UNITS

Art: 100, 101*, 124, 135, 141, 160, 211, 214, 231, 260, 261
Economics: 101
Music: 121, 124, 125, 176
Music: Ensemble: 101*, 131, 135

* Course may not meet the fine arts requirement at all universities. Please see a counselor.

HUMANITIES

3 UNITS

Core Humanities: 201, 202
English: 200, 223
History: 105, 106, 208, 209, 247
Philosophy: 101, 135, 200, 203, 204, 207, 210, 224

UNR transfer students, choose at least one of the following courses:
Core Humanities 201, 202
History 105, 106
Philosophy 200, 207

MATHEMATICS

See Program Requirements

SCIENCE

6 UNITS

Anthropology: 102, 110L
Astronomy: 109, 110L
Biological Sciences: 117
Biology: 100, 113, 190, 191, 200
Chemistry: 100, 121, 122
Environmental Studies: 100, 101
Geography: 103, 104, 121
Geology: 100, 101, 102, 103, 105, 201
Nutrition: 121
Physics: 100, 151, 152, 180 & 180L

Note: Completion of CHEM 121 or BIOL 190, BIOL 223 and BIOL 224, and BIOL 251 fulfills the science general education requirement.

SOCIAL SCIENCES

See Program Requirements

U.S. & NEVADA CONSTITUTION

3-6 UNITS

Must meet both requirements. Choose from:
Core Humanities: 203
History: 111
History: 101 and one of the following:
HIST 102, HIST 217, PSC 100, PSC 208
Political Science: 101, 103

SUGGESTED COURSE SEQUENCE

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<thead>
<tr>
<th>FIRST SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>ENG 101</td>
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</table>
Associate of Business BACHELOR DEGREE PATHWAYS

WNC has 2+2 partnerships with UNR and many other institutions to make completing your degree at WNC and transferring later as smooth as possible. The Associate of Business degree is designed so students may tailor it to meet degree requirements for a variety of majors at transfer institutions.

ACCOUNTING
Use your strength in math and numbers for public, industrial, tax, managerial or government accounting. Many opportunities are available because finance and budgets are the backbone of every organization.

ECONOMICS
Work for the government, businesses or nonprofit organizations as an economic and statistical analyst. Provide cutting-edge economic research, and assist public and private decision makers in practical ways.

FINANCE
Skilled with numbers? Make them work for you in financial management, banking, investments and insurance careers. You will learn the skills to credibly weigh in on fiscal matters dealing with business investment and stock and mutual fund research and analysis.

MANAGEMENT
Planning, organizing and leading people and projects are key components for all organizations and business. Students can expect to learn about human resources, general business management, entrepreneurship and related topics.

MARKETING
Become a vital component of a company or organization by having the ability to provide strategic insight. Identify customers, develop ad campaigns, conduct business development research and explore new areas of brand promotion.
Associate of Science A TRANSFER DEGREE

This degree allows early choices for those planning a professional career in mathematics, science, engineering, technology, medicine, agriculture or related field.

The Associate of Science degree is designed for students who intend to transfer with junior status to a four-year college or university for a bachelor of science degree.

MISSION: The mission of the Associate of Science Degree Program is to provide the academic knowledge and skills for successful transfer to meet higher education goals.

STUDENT LEARNING OUTCOMES: The successful student will:

- Meet the institutional student learning outcomes (1-6).
- Demonstrate the ability to identify the fundamental tenets of scientific inquiry.
- Present accurate calculations and symbolic operations, and explain how such calculations and operations are used in the sciences, mathematics or engineering.
- Use critical thinking and creativity to select and apply recognized experimental or observational techniques suitable for examining contemporary or enduring problems in the sciences.
- Be prepared to succeed at transfer institution.

PROGRAM REQUIREMENTS

A MINIMUM OF 18 UNITS CHOSEN FROM THE FOLLOWING:

SCIENCE
12 UNITS
Choose a minimum of 8 units from Group A.

GROUP A:
Anthropology: 102 & 110L
Biology: 190, 191, 251
Chemistry: 121, 122
Geology: 101, 102, 103
Geography: 103 & 104, or 121
Physics: 151, 152, 180 & 180L, 181 & 181L, 182 & 182L

Note: Completion of the Associate of Science program requirements fulfills the respective mathematics and science general education requirements.

TRANSFER REQUIREMENT AND ELECTIVES - 19-24 units.
Students should utilize this area to take courses that meet requirements for their major at their intended transfer school. Those who have not yet selected a major may choose from among any university transferable courses to explore their options. Students planning to transfer to the University of Nevada, Reno should obtain a transfer handout from WNC Counseling Services or the UNR Transfer Center.

GENERAL EDUCATION REQUIREMENTS

A MINIMUM OF 18-23 UNITS CHOSEN FROM THE FOLLOWING:

ENGLISH/COMMUNICATIONS
6-8 UNITS
English: 100 or 101, 102

FINE ARTS - 3 UNITS
Art: 100, 101*, 124, 135, 141, 160, 211, 231, 260, 261
Humanities: 101
Music: 121, 124, 125, 176
Music: Ensemble: 101*, 131, 135
Theatre: 100, 105*, 180
*Course may not meet the Fine Arts requirement at all universities. Please see a counselor.

HUMANITIES - 3 UNITS
Core Humanities: 201, 202
English: 200, 223
History: 105, 106, 207, 208, 209, 247
Philosophy: 101, 135, 200, 203, 204, 207, 210, 224
UNR transfer students, choose at least one of the following courses:
Core Humanities 201, 202
History: 105, 106
Philosophy 200, 207

MATHMATICS
See Program Requirements

SCIENCE
See Program Requirements

SOCIAL SCIENCES - 3 UNITS
Anthropology: 101, 201, 202, 212, 215
Core Humanities: 203
Criminal Justice: 101, 102
Economics: 100, 102, 103
Geography: 106, 200
History: 101, 102, 111, 217
Political Science: 103, 208, 231
Psychology: 101, 102, 233, 234, 240, 257, 261
Sociology: 101

U.S. & NEVADA CONSTITUTION
3-6 UNITS
Must meet both requirements. Choose from:
Core Humanities: 203
History: 111
History: 101 and one of the following:
HIST 102, HIST 217, PSC 100, PSC 208
Political Science: 101, 103
History & Political Science Combination (History 101 and Political Science 208)
Associate of Science BACHELOR DEGREE PATHWAYS

WNC has 2+2 partnerships with UNR and many other institutions to make completing your degree at WNC and transferring later as smooth as possible. The Associate of Science degree is designed so students may tailor it to meet degree requirements for a variety of majors at transfer institutions.

BIOLOGY
A strong foundation in biology can lead to many career paths in health and environmental science, education, research and more.

CHEMISTRY
A solid background in science and mathematics can lead to careers in education, industry, government, medicine and more. Students will have hands-on experience in a lab environment throughout college studies.

COMMUNITY HEALTH SCIENCE/NUTRITION/KINESIOLOGY
Explore health from many perspectives: emotional, social, spiritual, intellectual, environmental and physical. Students will be prepared to work in a variety of public and private positions, such as hospital administration, community health educator and fitness trainer.

COMPUTER SCIENCE
Enter a field that is growing at a rapid pace, learning to solve societal problems with computers. Because students are provided a well-rounded education in computer science and computer engineering, they will have the versatility employers are seeking.

ENGINEERING
There are many fields in engineering to consider: Civil, mining, mechanical, environmental, chemical and biomedical, computer, metallurgical and geological. These fields are well-compensated and offer promising futures.

ENVIRONMENTAL SCIENCE
Make a difference by preparing to solve a wide variety of environmental problems and focus on areas such as policy, environmental pollution and more. Students will become knowledgeable in animal science, wildlife science, soils, botany and ecology.

GEOLOGY
Learn about the major earth systems and the geologic processes that create and shape them. Find work in energy companies, engineering firms, research institutions, government agencies, colleges and universities.

MATH
Individuals with a skill for math and calculations can balance their abilities with arts, humanities, and other general studies for careers in education, finance, computing, science and more.
Associate of General Studies MEETS A VARIETY OF NEEDS

This degree provides academic exploration for those seeking personal growth or professional advancement. Military credits can qualify for up to 45 units toward this degree.

The Associate of General Studies is intended as an exploratory and terminal degree, not to be used as a transfer degree; however, credits earned under the degree may transfer to 4-year institutions. It is recommended that anyone planning to apply these credits for transfer consult their intended transfer institution for appropriate curriculum planning.

A maximum of six units of special topics classes in one subject area may apply toward any WNC degree. In some cases, courses may not transfer to other Nevada community colleges and Nevada State College or other colleges and universities. See a WNC counselor for the latest transfer information. Courses with a number under 100 (such as ENG 95) are not applicable toward an Associate of General Studies degree.

MISSION: The purpose of the Associate of General Studies degree is to provide academic knowledge and skills for personal growth, and/or professional advancement.

STUDENT LEARNING OUTCOMES: The successful student will:
- Meet the general education student learning outcomes.
- Succeed at the professional, academic and personal goals the AGS degree serves.
- Demonstrate knowledge of the subject matter appropriate to their fields of study.

ENGLISH/COMMUNICATIONS 6 UNITS
Must include a three-credit writing course.
- Business: 107, 108
- Communication: 101, 102, 113
- Criminal Justice: 103
- English
- Journalism: 201
- Reading
- Writing Course (Business 108, English 100, 101, 102, 107 or any other 200 level English class)

FINE ARTS AND HUMANITIES 3 UNITS
- American Sign Language
- Art
- Core Humanities: 201, 202
- Crafts
- English: 190, 200, 223, 243, 250, 252, 267, 271, 282, 297
- Foreign Languages
- Graphic Design
- History: 105, 106, 207, 208, 209, 247
- Humanities: 101
- Music
- Philosophy (except for PHIL 102, 114)
- Theatre: 100, 105, 180

MATHEMATICS 3 UNITS
- Business: 109
- Economics: 261, 262
- Mathematics
- Psychology: 210
- Sociology: 210
- Statistics: 152

SCIENCE 3 UNITS
- Anthropology: 102, 110L
- Astronomy: 109, 110, 120
- Atmospheric Sciences: 117
- Biology (except for BIOL 208, 223, 224, 251)
- Chemistry (except for CHEM 220, 241, 241L, 242, 242L)
- Environmental Studies
- Geography: 103, 104, 121
- Geology: 105 (except for GEOL 111, 112, 113, 229)
- Nutrition: 121
- Physics (except for PHYS 293)

SOCIAL SCIENCES 3 UNITS
- Anthropology: 101, 201, 202, 210, 212, 215
- Core Humanities: 203
- Criminal Justice
- Economics: 100, 102, 103
- Geography: 106, 200
- History: 101, 102, 111, 217, 295
- Political Science
- Psychology (except for PSY 210)
- Sociology (except for SOC 210)

U.S. & NEVADA CONSTITUTION 3-6 UNITS
Must meet both requirements. Choose from:
- Core Humanities: 203
- History: 111
- History and Political Science Combination (History 101 and Political Science 208)

GENERAL EDUCATION REQUIREMENTS 36 OR 39 UNITS

Students may choose from any occupational or general education courses to be used as electives for this degree. Some non-traditional credit approved by Admissions and Records may be applicable to satisfy course requirements for occupational degrees, while other such units may be used as electives for the AGS and AAS degrees only. Students planning to transfer to the University of Nevada, Reno should use the UNR core curriculum guide to satisfy general education requirements.
Associate of Applied Science  A CAREER DEGREE

This degree provides career preparation, training and industry credentials in an occupational or technical field.

Students enrolled in an applied science program will benefit from “hands-on” laboratory experience within their major field. They will enter the job market with specific skills and knowledge useful for employment and advancement.

Although the AAS degree is not designed to be a transfer program, some courses will transfer to four-year colleges or universities. Students who wish to transfer to a four-year school should consult a WNC counselor. Courses with a number under 100 (such as ENG 95) are not applicable toward an Associate of Applied Science degree at WNC.

A maximum of six units of special topics classes in one subject area may apply toward any WNC degree.

MISSION: The purpose of the Associate of Applied Science degree is to provide employment-related knowledge and skills necessary to succeed in a chosen field of study.

STUDENT LEARNING OUTCOMES: The successful student will:
• Have met the institutional student learning outcomes.
• Know the subject matter appropriate to the emphasis of the degree.
• Have acquired skills and can perform tasks necessary for employment or career advancement.

PROGRAM REQUIREMENTS

The number of units required may vary by emphasis. Some units earned in non-traditional courses may be considered for elective credit and may require review in order to be applied to the AAS degree.

Program requirements can be found on the programs of study pages.

GENERAL EDUCATION REQUIREMENTS

ENGLISH/COMMUNICATIONS

6 UNITS

Must include a writing course.
Business: 107, 108
Communication: 101, 102, 113
Criminal Justice: 103
English
Journalism: 201
Reading
Writing Course: Business 108, English 100, 101, 102, 107 or any 200 level English class

HUMAN RELATIONS

3 UNITS

Anthropology: 101, 201
Business: 110
Counseling and Personal Development: 117, 129
Criminal Justice: 270
Early Childhood Education: 121
Education Psychology: 150
Human Development & Family Studies: 201, 202
Management: 201, 212, 283
Nursing 261
Psychology (except for PSY 210)
Sociology (except for SOC 210)

HUMANITIES/SOCIAL SCIENCE

3 UNITS

Choose from either area:

Humanities:
Art: 100, 101*, 124, 135, 160, 214, 224, 241, 260, 261
Core Humanities: 201, 202
English: 200, 221, 223, 250, 261, 266, 267, 271, 275
History: 105, 106, 207, 208, 209, 247
Humanities: 101
Music: 111*, 121, 124, 125, 134, 176
Music Ensemble: 131, 135
Philosophy (except for PHIL 102, 114)
Theatre: 100, 103, 180

Social Sciences:
Anthropology: 101, 201, 202, 210, 212, 215
Core Humanities: 203
Criminal Justice: 101, 102, 120, 215, 220, 225, 226, 230, 270
Economics: 100, 102, 103
Geography: 106, 200
History: 101, 102, 111, 217, 295
Political Science
Psychology (except for PSY 210)
Sociology (except for SOC 210)

* Course may not meet the fine arts requirement at all universities. See a counselor.

MATHEMATICS

3 UNITS

Business: 109
Economics: 261, 262
Mathematics
Psychology: 210
Sociology: 210
Statistics: 152

SCIENCE

3 UNITS

Anthropology: 102, 110L
Astronomy: 109, 110, 120
Atmospheric Sciences: 117
Biology (except for BIOL 208, 223, 224, 251)
Chemistry (except for CHEM 220, 241, 241L, 242, 242L)
Environmental Studies
Geography: 103, 104, 121
Geology: (except for GEOL 111, 112, 113, 299)
Nutrition: 121
Physics (except for PHYS 293)

U.S. & NEVADA CONSTITUTION

3-6 UNITS

Must meet both requirements. Choose from the following:
Core Humanities: 203
History: 101 & 217
History: 101 & 102
History: 111
History: 101 and one of the following:
HIST 102, HIST 217, PSC 100, PSC 208
Political Science: 101, 103
History and Political Science Combination (History 101 and Political Science 208)

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Professional Skill Development

CERTIFICATE OF ACHIEVEMENT

For those desiring a shorter course of study, WNC offers Certificates of Achievement in many occupational areas. Students enrolled in any of these programs will benefit from “hands-on” laboratory experiences within their major field. They will enter the job market with specific skills and knowledge useful for employment and advancement. In some cases, courses may not transfer to other Nevada community colleges and Nevada State College or to other colleges and universities.

See a WNC counselor for the latest transfer information. Courses with a number under 100 (such as ENG 95) are not applicable toward a Certificate of Achievement at WNC. Courses completed through Certificates of Achievement provide basis for Associate of Applied Science degrees.

MISSION: The purpose of the Certificate of Achievement is to provide employment-related knowledge and skills.

STUDENT LEARNING OUTCOMES: The successful student will:
- Know the subject matter appropriate to the emphasis of the certificate.
- Acquire the skills necessary for employment or career enhancement.
- Successfully represent themselves to a potential employer.
- Demonstrate effective communication and computational skills appropriate to the certificate area.
- Utilize appropriate resources for remaining current in the certificate area.
- Have developed an appreciation of the importance of social, ethical, legal and diversity issues.

30 TOTAL UNITS CHOSEN FROM THE FOLLOWING CATEGORIES:

ENGLISH/COMMUNICATIONS
3-6 UNITS
Must include a writing course.
Business: 107, 108
Communication: 101, 102, 113
Criminal Justice: 103
English
Journalism: 201
Reading
Writing Course; Business 108,
English 100, 101, 102, 107 or any other
200 level English class.

MATHEMATICS - 3 UNITS
Business: 109
Economics: 261, 262
Mathematics
Psychology: 210
Sociology: 210
Statistics: 152

HUMAN RELATIONS - 1-3 UNITS
Anthropology: 101, 201
Business: 110
Counseling and Personal Development: 117, 129
Criminal Justice: 270
Early Childhood Education: 121
Educational Psychology: 150
Human Development & Family Studies: 201, 202
Management: 201, 212, 283
Nursing: 261
Psychology (except for PSY 210)
Sociology (except for SOC 210)

PROGRAM REQUIREMENTS
30 units are required for any certificate of achievement, although the exact number of units required may differ with particular subject matter.

Gainful Employment Data is Available for all WNC Certificates of Achievement at https://www.wnc.edu/financial/gainful-employment/

CERTIFICATION & LICENSING PREPARATION

Students can earn an industry-recognized certification in as little as 8 weeks and enter the workforce above entry level. Certification and licensing preparation programs are designed to prepare students to take state or other certified licensing exams. WNC will issue a certificate of completion for the courses of study, unless otherwise noted.

NOTE: While these courses are designed to prepare students to take a licensing or industry certification exam, the completion of these courses does not include the actual licensing exam, and successful completion of the courses does not guarantee receiving the license or certification.

ADVANCED MANUFACTURING
Industrial Electronics Technology
Manufacturing Technician
Mechatronics Level I and Level II

ALLIED HEALTH
Certified Nursing Assistant
Emergency Medical Services
Laboratory Technician-Phlebotomy

AUTOMOTIVE TECHNOLOGY
Automotive Collision Repair
Automotive Service Excellence

BUSINESS/ACCOUNTING
Bookkeeping

COMPUTER INFORMATION TECHNOLOGY
Cisco Networking
CyberSecurity
Microsoft Certification

CONSTRUCTION
Certified Inspector of Structures
Ramsdell Construction Academy
Construction Craft Laborer

DEAF STUDIES
Interpreting

MACHINE TOOL TECHNOLOGY
National Institute for Metalworking Skills

TEACHER EDUCATION
Nevada State College Partnership
Bachelor Degree State Licensure Preparation
Praxis Exam Preparation

WELDING
American Welding Society
Online New Student Orientation
New student orientation helps students make a successful transition to the college environment and introduces students to campus resources and services. All first-time degree and certificate-seeking students should attend orientation.

Canvas
WNC uses a platform called Canvas for access to both online and flex courses. Online Orientation and FAQs for using Canvas can be found online at www.wnc.edu/wnc-online/

WWW.WNC.EDU/ONLINE-PROGRAMS/
Advanced Manufacturing
PROFESSIONAL AND APPLIED TECHNOLOGY DIVISION

Advanced Manufacturing applies technology and innovation to improve products and how they are made. The Advanced Manufacturing programs of study focus on building a solid base of fundamental knowledge and skill to prepare for careers in modern manufacturing, distribution and logistics environments.

Class and lab work explores the manufacturing environment, culture, processes and values through electrical, mechanical, and fluid power topics and tools. Knowledge and skill courses include technology-rich computer-based studies and hands-on lab experiences with industrial components and allow students to move forward through advanced studies including automation, mechatronics and robotics.

MISSION: The purpose of the Associate of Applied Science degree in Technology is to provide employment-related knowledge and skills necessary to succeed as a professional in a chosen field of study.

STUDENT LEARNING OUTCOMES: Students who complete an Associate of Applied Science in Advanced Manufacturing are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Developed an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Developed an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

AUTOMATED SYSTEMS

Associate of Applied Science - Technology Degree

This degree further develops knowledge and skills for the automated environment where the integration of computers and electronic technologies control industrial systems and machines in manufacturing, distribution and logistics environments. The MT1 credential is earned as part of this degree and courses include SolidWorks for 3-D modeling and Alternative Energy, in addition to electronics used in manufacturing, integrated computer tools, wiring and PLC electrical controls. This degree provides students with technical theory and hands-on practice to install, operate and maintain automated systems for a variety of industries.

Salary: $39,350-$62,190/year (Nevada)
Career Outlook: Average growth
Good To Know: Offers broad career opportunities and room for advancement in automated environments of manufacturing, logistics and distribution.

TOTAL REQUIREMENTS  60 UNITS

PROGRAM REQUIREMENTS  36 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<td>AIT 101 Fundamentals of Applied Industrial Technology</td>
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<tr>
<td>AIT 121 Electrical Control Systems</td>
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<td>AIT 155 Applied Hands-on AIT Labs</td>
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<td>ET 104 Fabrication/Soldering Techniques</td>
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<tr>
<td>ET 131 DC for Electronics</td>
<td>4</td>
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<tr>
<td>ET 132 AC for Electronics</td>
<td>4</td>
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<tr>
<td>MT 115 Applied Programmable Logic Controllers</td>
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Choose at least 14 units from the following program electives:

- CADD 100 Introduction to Computer Aided Drafting 3
- CADD 245 Solid Modeling and Parametric Design (SolidWorks) 3
- CIT 161 Essentials of Information Security 3
- DFT 110 Blueprint Reading for Industry 3
- Any AIT, ELM, ET or MT course Units Vary

GENERAL EDUCATION REQUIREMENTS  24 UNITS

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<th>Course</th>
<th>Units</th>
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<td>English/Communications Requirement: Recommended: BUS 107</td>
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<tr>
<td>Human Relations: Recommended, BUS 110</td>
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<tr>
<td>Humanities/Social Science Requirements</td>
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<tr>
<td>Mathematics Requirement</td>
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<tr>
<td>Science Requirement</td>
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A list of all courses fulfilling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.
GENERAL INDUSTRIAL TECHNOLOGY

Associate of Applied Science

This degree develops fundamental skills and knowledge in electrical and mechanical systems, and basic fabrication. Students will be prepared for careers in a variety of industries and facilities with a focus on installation, operation, and maintenance of industrial systems using tools and equipment. A broad base of study including hands-on practice and theoretical knowledge prepares students for technical positions in manufacturing, logistics, distribution and related fields.

Salary: $31,700-$47,800/year (Nevada)
Career Outlook: Above average growth
Good To Know: Leads to employment as a maintenance or industrial technician

TOTAL REQUIREMENTS  60 UNITS

PROGRAM REQUIREMENTS  36 UNITS
AIT 101  Fundamentals of Applied Industrial Technology          4
AIT 155  Applied Hands-on AIT Labs                              3
DFT 110  Blueprint Reading for Industry                        3
Any MTT courses                                              5
Any WELD courses                                              5

Choose at least 16 units from the following:
AIT, CADD, ELM, ET, ENRG, IT, MTT, MT, WELD

GENERAL EDUCATION REQUIREMENTS  24 UNITS
English/Communications Requirement: Recommended: BUS 107
  Must include a writing course                                 6
Human Relations: Recommended: BUS 110                        3
Humanities/Social Science Requirements                        3
Mathematics Requirement: Recommended: MATH 110               3
Science Requirement                                           3
U.S. and Nevada Constitution Requirement                      3
General Elective                                              3

A list of all courses filling general education requirements for the Associate of Applied Science can be found on the Associate of Applied Science page.

GENERAL INDUSTRIAL - Suggested Course Sequence

Note: The suggested course sequence is based on enrollment that begins with the fall semester. Some courses may not be taught each semester.

FIRST SEMESTER  Completed
AIT 101                                                  4
AIT 155                                                  3
English Course: BUS 107                                  3
Math Course: BUS 110                                     3
MTT 105                                                  3

SECOND SEMESTER  Completed
English Course                                            3
MTT 110                                                  3
Program Elective                                          3
Science Elective                                          3

THIRD SEMESTER  Completed
Human Relations: BUS 110                                 3
Humanities/Social Science                                 3
Program Electives                                        5
WELD 211                                                 3

FOURTH SEMESTER  Completed
General Elective                                          3
Program Electives                                        6
U.S./Nevada Constitution                                  3
WELD 221                                                 2

MECHATRONICS TECHNOLOGY

Associate of Applied Science - Technology Degree

Mechatronics is the high-tech field combining electrical, mechanical, fluid power, and control systems in industrial environments. This technical degree program ensures hands-on experience and operational knowledge as aligned with the rigorous Siemens Mechatronics industry certification exam objectives. Class and lab experiences include developing a troubleshooting mindset through the systems approach to automated systems, such as problem-solving, research, safety, documentation and effective teamwork. The Mechatronics degree specialization builds on field experience and/or the Manufacturing Technician Level 1 (MT1) certification and will prepare students for Level 1 and Level 2 Siemens Mechatronic Systems Certification exams.

Salary: $36,600-$93,800/year (Nevada)
Career Outlook: Above average growth
Good To Know: Leads to employment as: Manufacturing Technician, Engineering Technician, Industrial Technician, Industrial Maintenance, Robotics Technician, Systems Technician, Production Lead.

TOTAL REQUIREMENTS  60 UNITS

PROGRAM REQUIREMENTS  34 UNITS
AIT 101  Fundamentals of Applied Industrial Technology          4
AIT 250  Mechatronics: Electrical Components                   3
AIT 251  Mechatronics: Mechanical Components                   3
AIT 252  Mechatronics: Pneumatic and Hydraulic                3
AIT 253  Mechatronics: Programmable Logic Controllers         3
AIT 270  Mechatronics 2: Process Control Technologies         3
AIT 271  Mechatronics 2: Intro to Totally Integrated Automation 3
AIT 272  Mechatronics 2: Automation Systems                   3
AIT 273  Mechatronics 2: Motor Control                        3
AIT 274  Mechatronics 2: Mechanics and Machine Elements       3
AIT 275  Mechatronics 2: Manufacturing Processes              3

PROGRAM ELECTIVES:
(Choose at least 2 units from the following program electives)
Any AIT, CADD, ET, ELM, ENRG, or MT course                2

GENERAL EDUCATION REQUIREMENTS  24 UNITS
English/Communications Requirement:
  Recommended: BUS 107, BUS 108 (writing course),
  ENG 100, 101, 102, 107 or other 200 level English courses 6
Human Relations Requirement Recommended: BUS 110          3
Humanities/Social Science Requirement                     3
Mathematics Requirement:
  Recommended: MATH 110                                   3
Science Requirement                                       3
U.S. and Nevada Constitution                             3
General Elective                                         3

NOTE: Many courses are open-entry, open-exit.

MECHATRONICS - Suggested Course Sequence

FIRST SEMESTER  Completed
AIT 101                                                  4
AIT 250                                                  3
AIT 251                                                  3
AIT 252                                                  3
AIT 253                                                  3

SECOND SEMESTER  Completed
English Course: BUS 107 or ENRG 107 Rec.                 6
Math Course                                              3
Program Elective                                         2
Science Course                                           3

THIRD SEMESTER  Completed
AIT 270                                                  3
AIT 271                                                  3
AIT 272                                                  3
Human Relations Course                                   3
Humanities/Social Science                                3

FOURTH SEMESTER  Completed
AIT 273                                                  3
AIT 274                                                  3
AIT 275                                                  3
U.S./Nev. Constitution                                   3
INDUSTRIAL ELECTRONICS TECHNOLOGY

Certificate of Achievement

Designed to provide fundamental knowledge of and experience with industrial electronic components and systems to learn job skills applicable in a variety of technical environments including automated systems. Students will learn about and use equipment, tools and processes that involve electrical and electronic equipment to prepare for International Society of Certified Electronics Technicians (ISCET) certification as a Certified Electronics Technician associate and be prepared to work as a technician in assembly or troubleshooting positions.

TOTAL REQUIREMENTS  30 UNITS

SUBJECT REQUIREMENTS  18 UNITS
AIT 101  Fundamentals of Applied Industrial Technology  4
ET 104  Fabrication/Soldering  3
ET 131  DC for Electronics  4
MT 115  Programmable Logic Controllers  3

Choose at least 4 units from the following:
AIT 121  Electrical Control Systems  2
AIT 155  Applied Industrial Technology Hands-on Labs  1-4
AIT 198  Special Topics in Electronics  1-4
AIT 200  Electronics Projects  1-4
ET 132  AC for Electronics  4
ET 198  Special Topics in Electronics  1-4
ET 200  Electronics Projects  1-4

GENERAL EDUCATION REQUIREMENTS  12 UNITS

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.
**MECHATRONICS TECHNOLOGY**

Certificate of Achievement

Mechatronics is the high-tech field combining electrical, mechanical, fluid power, and control systems in industrial environments. This certificate program ensures hands-on experience and operational knowledge as aligned with the rigorous Siemens Mechatronics Industry certification exam objectives in addition to expanded technical studies. Class and lab experiences include developing a troubleshooting mindset through the systems approach to automated systems, such as problem-solving, research, safety, documentation and effective teamwork. The Mechatronics certificate builds on field experience and/or the Manufacturing Technician Level 1 (MT1) certification for a well-rounded college certificate of achievement.

**TOTAL REQUIREMENTS** 30 UNITS

**PROGRAM REQUIREMENTS** 18 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 101</td>
<td>Fundamentals of Applied Industrial Technology</td>
<td>4</td>
</tr>
<tr>
<td>AIT 102</td>
<td>Measurement Tools and Methods</td>
<td>2</td>
</tr>
<tr>
<td>AIT 250</td>
<td>Mechatronics: Electrical Components</td>
<td>3</td>
</tr>
<tr>
<td>AIT 251</td>
<td>Mechatronics: Mechanical Components</td>
<td>3</td>
</tr>
<tr>
<td>AIT 252</td>
<td>Mechatronics: Pneumatic and Hydraulic</td>
<td>3</td>
</tr>
<tr>
<td>AIT 253</td>
<td>Mechatronics: Programmable Logic Controllers</td>
<td>3</td>
</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS** 12 UNITS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement:</td>
<td></td>
</tr>
<tr>
<td>Recommended: BUS 107 Business Speech and</td>
<td></td>
</tr>
<tr>
<td>ENG 107 Technical Writing or ENG 101 Composition I</td>
<td></td>
</tr>
<tr>
<td>Must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement:</td>
<td>3</td>
</tr>
<tr>
<td>Recommended: BUS 110 Human Relations for Employment</td>
<td></td>
</tr>
<tr>
<td>Mathematics Requirement:</td>
<td>3</td>
</tr>
<tr>
<td>Recommended: MATH 110 Shop Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

**MECHATRONICS TECHNOLOGY - Suggested Course Sequence**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
<th>SECOND SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 101</td>
<td>4</td>
<td>AIT 250</td>
<td>4</td>
</tr>
<tr>
<td>AIT 102</td>
<td>3</td>
<td>AIT 251</td>
<td>3</td>
</tr>
<tr>
<td>English Course</td>
<td>2</td>
<td>AIT 252</td>
<td>2</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
<td>AIT 253</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>English Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**INDUSTRIAL ELECTRONICS TECHNOLOGY**

Certification Preparation

This course of study prepares students for the Certified Electronics Technician Associate Exam, which is administered by the International Society of Certified Electronics Technicians (ISCET). Upon completion of the coursework, student will have learned basic electronics, math, DC and AC circuits, transistors and troubleshooting.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 131</td>
<td>DC for Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ET 132</td>
<td>AC for Electronics</td>
<td>4</td>
</tr>
<tr>
<td>AIT 101</td>
<td>Fundamentals of Applied Industrial Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

**MANUFACTURING TECHNICIAN**

Certification Preparation

The Manufacturing Technician program is the entry point for Advanced Manufacturing studies as it prepares students to earn the Manufacturing Technology Level 1 (MT1) credential. MT1 documents that an individual is prepared for above entry-level industrial technology positions with fundamental knowledge and skills in the topics of electrical and mechanical systems, and general manufacturing concepts and technologies. Students will prepare for the certification exams through foundational class and lab work that is technology-driven and hands-on and gain experience beyond that of a typical machine operator. The nationally recognized MT1 certification is embedded into this 3-course series and is issued by the Manufacturing Skills Institute as well as endorsed by the National Association of Manufacturers.

**MECHATRONICS FOUNDATION (LEVEL I)**

Certification Preparation

Mechatronics is the study of electrical, mechanical, fluid power and control components that make up automated systems in the high-tech industrial environments of manufacturing, logistics and distribution. This advanced program of study builds on the Manufacturing Technician credential or field experience to prepare students to earn the Siemens Certified Mechatronic Systems Assistant Level 1 certification. This internationally recognized credential documents demonstrated skills with the systems approach to operating and evaluating systems through research, analysis and documentation. Instructor permission is required.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 250</td>
<td>Mechatronics: Electrical Components</td>
<td>3</td>
</tr>
<tr>
<td>AIT 251</td>
<td>Mechatronics: Mechanical Components</td>
<td>3</td>
</tr>
<tr>
<td>AIT 252</td>
<td>Mechatronics: Pneumatic and Hydraulic</td>
<td>3</td>
</tr>
<tr>
<td>AIT 253</td>
<td>Mechatronics: Programmable Logic Controllers</td>
<td>3</td>
</tr>
</tbody>
</table>

**MECHATRONICS LEVEL 2**

Building upon the Mechatronics Level 1 certificate, Mechatronics Level 2 represents continued development of the knowledge and skills technicians need to work with electrical, mechanical, fluid power and PLC components. Level 2 coursework incorporates programming of modules, implementing and modifying processes and tools, and troubleshooting complex issues in mechatronic systems. WNC holds the distinction of being a Siemens Industrial Training (SITRAIN) partner school, and the series of six level-two classes prepares students for the rigorous Mechatronic Systems Associate exam that validates knowledge and skill through this internationally recognized credential.

**PROGRAM REQUIREMENTS** 18 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 270</td>
<td>Process Control Technologies</td>
<td>3</td>
</tr>
<tr>
<td>AIT 271</td>
<td>Intro Totally Integrated Automation</td>
<td>3</td>
</tr>
<tr>
<td>AIT 272</td>
<td>Automation Systems</td>
<td>3</td>
</tr>
<tr>
<td>AIT 273</td>
<td>Motor Control</td>
<td>3</td>
</tr>
<tr>
<td>AIT 274</td>
<td>Mechanics and Machine Elements</td>
<td>3</td>
</tr>
<tr>
<td>AIT 275</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
</tbody>
</table>
This program offers students an opportunity to acquire the necessary skills and technical theory for a successful career as an automotive mechanic. Individuals who are now employed in the automotive mechanics field will be able to upgrade their knowledge. Students obtaining this associate degree will have completed courses of a very technical nature, chosen to complement each other and provide breadth and depth of diagnostic and repair skill abilities necessary to work in a service facility.

**MISSION:** The mission of the Associate of Applied Science in Automotive Mechanics is to provide employment-related knowledge and skills necessary to succeed as a professional in a chosen field of study.

**STUDENT LEARNING OUTCOMES:** Students who complete an Associate of Applied Science in Automotive Mechanics are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Developed an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Developed an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

**AUTOMOTIVE MECHANICS**

**Associate of Applied Science - Technology Degree**

**Salary:** $25,800-$68,900/year (Nevada)

**Career Outlook:** Average growth

**Good To Know:** Mechanics can be certified in as many as eight service areas. Most jobs are at repair shops and auto dealerships.

**TOTAL REQUIREMENTS**

**60 UNITS**

**PROGRAM REQUIREMENTS**

36 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101 Introduction to General Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 115 Auto Electricity &amp; Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 117 Advanced Auto Electronics</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 130 Engine Reconditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 145 Automotive Brakes</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 155 Steering &amp; Suspension</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 160 Auto Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 210 Automatic Transmissions and Transaxles I</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 225 Engine Performance / Fuel &amp; Ignition</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 227 Engine Performance II/ Emission Control</td>
<td>4</td>
</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS**

24 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>BUS 107 &amp; 108; Must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement: Recommended: BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement: Recommended: MATH 110</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.
AUTOMOTIVE MECHANICS

Certificate of Achievement

Offers students an opportunity to acquire the necessary skills and technical theory for a successful career as an automotive mechanic. Individuals already employed in the automotive mechanics field will be able to upgrade their knowledge.

TOTAL REQUIREMENTS 31 UNITS

PROGRAM REQUIREMENTS 19 UNITS
AUTO 101 Introduction to General Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 145 Automotive Brakes 4
AUTO 155 Steering & Suspension 4
AUTO 22S Engine Performance I/Fuel & Ignition 4

GENERAL EDUCATION REQUIREMENTS 12 UNITS
English/Communications Requirements: Must include a writing course 6
Human Relations Requirement: Recommended: BUS 110 1
Mathematics Requirement 3
General Electives 2

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

AUTOMOTIVE MECHANICS - Suggested Course Sequence

Note: Sequence based on enrollment that begins with the fall semester. Some courses may not be taught each semester.

FIRST SEMESTER  Completed  SECOND SEMESTER  Completed
AUTO 101 3  AUTO 155 4
AUTO 115 4  AUTO 22S 4
AUTO 145 4  Mathematics Course 3
English Course 3  English Course 3
Human Relations Course 1  General Elective Course 2

AUTOMOTIVE COLLISION REPAIR

Certification Preparation

Prepares students for Automotive Service Excellence and I-Car Exams.

UNIT S
AUTB 120 Automotive Collision I 3
AUTB 125 Automotive Collision II 3
AUTB 200 Automotive Refinishing I 3
AUTB 205 Automotive Refinishing II 3

AUTOMOTIVE SERVICE EXCELLENCE

Certificate Preparation

Prepares students for the National Automotive Service Excellence Exams.

UNIT S
AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Automotive Electricity & Electronics I 4
AUTO 210 Automatic Transmission and Transaxle 3

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Automotive Electricity & Electronics I 4
AUTO 130 Engine Reconditioning 3

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Automotive Electricity & Electronics I 4
AUTO 160 Automotive Air Conditioning 3

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Automotive Electricity & Electronics I 4
AUTO 227 Engine Performance II and Emission Control 4

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Automotive Electricity & Electronics I 4
AUTO 227 Transmission and Transaxle 3

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Automotive Electricity & Electronics I 4
AUTO 145 Automotive Brakes 4

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 145 Automotive Brakes 4

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 117 Advanced Auto Electronics 4

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 155 Steering & Suspension 4

AUTO 101 Introduction to Auto Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 225 Engine Performance I/Fuel & Ignition 4

AUTOMOTIVE TECHNOLOGY NATIONAL CERTIFICATION

Following an extensive examination of its courses, instructors and facilities, Western has earned a certification from the National Automotive Technicians Education Foundation (NATEF).

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
MISSION: The purpose of the AAS Business degree is to provide the knowledge and skills necessary to be a successful manager.

STUDENT LEARNING OUTCOMES: Students will be able to:

• Articulate and demonstrate their personal employment related knowledge, skills and abilities.
• Evaluate the impact of various economic systems and policies.
• Summarize, record, analyze, interpret and communicate accounting and financial information for decision-making.
• Devise, implement and evaluate managerial decisions, actions and outcomes.
• Apply technology to aid in communications and decision-making.
• Present research, data, analysis and conclusions through written and oral means.
• Describe the changing landscape of the global market and its impact on the United States.
• Summarize the impact of social, ethical, legal and diversity issues within contemporary business.
• Develop business, financial and marketing plans for established and emerging businesses.

ACCOUNTING - ON CAMPUS

Suggested Course Sequence

FIRST SEMESTER  Completed
ACC 201 3
BUS 107 or ENG 101 3
BUS 101 3
ECON 102 3
IS 101 or IS 201 3
SECOND SEMESTER  Completed
ACC 202 3
MATH: BUS 109 or MATH 120 or higher 3
BUS 108 or ENG 102 3
ECON 103 3
MGT 201 3
THIRD SEMESTER  Completed
ACC 203 3
BUS 273 3
Science Requirement 3
Accounting Elective 3
U.S./Nevada Constitution 3
FOURTH SEMESTER  Completed
ACC 220 or ACC 223 3
BUS 299 3
Accounting Elective 6
MKT 210 3

ACCOUNTING - ONLINE

Suggested Course Sequence

FIRST SEMESTER  Completed
ACC 201 3
BUS 107 or ENG 101 3
BUS 101 3
ECON 102 3
IS 101 or IS 201 3
SECOND SEMESTER  Completed
ACC 202 3
MATH: BUS 109 or MATH 120 or higher 3
BUS 108 or ENG 102 3
ECON 103 3
MGT 201 3
THIRD SEMESTER  Completed
ACC 203 3
BUS 273 3
Science Requirement 3
Accounting Elective 3
U.S./Nevada Constitution 3
FOURTH SEMESTER  Completed
ACC 220 or ACC 223 3
BUS 299 3
Accounting Elective 6
MKT 210 3

Note: Sequence based on enrollment that begins with the fall semester. Some courses may not be taught each semester.

ACCOUNTING

Associate of Applied Science - Business Degree

Salary: $25,800-$39,200/year (Nevada)
Career Outlook: Above average growth; demand is increasing as regulations for bookkeepers standards and auditing become stricter.
Good To Know: Tax preparation growth is on the decline as tax software becomes more widely used.

TOTAL REQUIREMENTS  60 UNITS

CORE BUSINESS REQUIREMENTS 30 UNITS
ACC 201  Financial Accounting 3
ACC 202  Managerial Accounting 3
BUS 101  Introduction to Business 3
BUS 273  Business Law I 3
BUS 299  Business Capstone 3
ECON 102  Principles of Microeconomics 3
ECON 103  Principles of Macroeconomics 3
IS 101  Introduction to Information Systems 3
or IS 201  Computer Applications
MGT 201  Principles of Management 3
MKT 210  Marketing Principles 3

ACCOUNTING DEGREE REQUIREMENTS 6 UNITS
ACC 203  Intermediate Accounting 3
ACC 220  Microcomputer Accounting Systems 3
or ACC 223  Introduction to QuickBooks

ACCOUNTING ELECTIVES 9 UNITS
Choose 9 units from the following:
ACC 105  Taxation For Individuals 3
ACC 180  Payroll & Employee Benefit Accounting 3
ACC 204  Intermediate Accounting II 3
ACC 220  Microcomputer Accounting Systems 3
ACC 223  Introduction to QuickBooks 3
ACC 261  Governmental Accounting 3
ACC 290  Certified Bookkeeper Course 6
ACC 295  Work Experience I 3
COT 262  Intermediate Spreadsheets Concepts 3
ECON 261*  Principles of Statistics I 3
ECON 262*  Principles of Statistics II 3

GENERAL EDUCATION REQUIREMENTS 15 UNITS
English/Communications Requirement: Recommended: BUS 107, BUS 108, or ENG 101*, ENG 102*; must include a writing course 6
Mathematics Requirement 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3

* Recommended for students who plan to transfer and enroll in a bachelor's degree program.
A list of all courses filling general education requirements for the Associate of Applied Science can be found on the Associate of Applied Science page.
### GENERAL BUSINESS

**Associate of Applied Science Degree**

**Salary:** $35,800-$60,300/year (Nevada)

**Career Outlook:** Average growth, strong competition

**Good To Know:** Often includes hiring, training and supervising employees, although the increased use of computers may require managers to handle professional tasks with fewer employees.

<table>
<thead>
<tr>
<th>TOTAL REQUIREMENTS</th>
<th>60 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE BUSINESS REQUIREMENTS</td>
<td>24 UNITS</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>BUS 273</td>
<td>Business Law I</td>
</tr>
<tr>
<td>BUS 299</td>
<td>Business Capstone</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
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<td>ECON 103</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
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<td>MKT 210</td>
<td>Marketing Principles</td>
</tr>
<tr>
<td>ACCOUNTING REQUIREMENTS</td>
<td>6 UNITS</td>
</tr>
<tr>
<td>ACC 135</td>
<td>Bookkeeping I</td>
</tr>
<tr>
<td>&amp; ACC 201</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>or ACC 201*</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>&amp; ACC 202*</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>BUSINESS ELECTIVES - IN THREE DIFFERENT AREAS</td>
<td>15 UNITS</td>
</tr>
<tr>
<td>Any Accounting, Business, Economics, Entrepreneurship, Finance, Management, Marketing or Real Estate Courses</td>
<td></td>
</tr>
<tr>
<td>GENERAL EDUCATION REQUIREMENTS</td>
<td>15 UNITS</td>
</tr>
<tr>
<td>English/Communications Requirement: Recommended BUS 107, BUS 108, or ENG 101*, ENG 102*; must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

*Recommended for students who plan to transfer and enroll in a bachelor's degree program.*

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### MANAGEMENT

**Associate of Applied Science - Business Degree**

**Salary:** $29,800-$52,000/year (Nevada)

**Career Outlook:** Average growth

**Good To Know:** Managers work in almost every industry. The increase in computer use may result in supervision of fewer people and the need for managers to independently perform more professional duties.

<table>
<thead>
<tr>
<th>TOTAL REQUIREMENTS</th>
<th>60 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE BUSINESS REQUIREMENTS</td>
<td>30 UNITS</td>
</tr>
<tr>
<td>ACC 201</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ACC 202</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>BUS 273</td>
<td>Business Law I</td>
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<td>BUS 299</td>
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<td>Principles of Microeconomics</td>
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<td>Principles of Macroeconomics</td>
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<td>Computer Applications</td>
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<td>MGT 201</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>MKT 210</td>
<td>Marketing Principles</td>
</tr>
<tr>
<td>MANAGEMENT REQUIREMENTS</td>
<td>6 UNITS</td>
</tr>
<tr>
<td>MGT 235</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>MGT 283</td>
<td>Introduction to Human Resources Management</td>
</tr>
<tr>
<td>MANAGEMENT ELECTIVES</td>
<td>9 UNITS</td>
</tr>
<tr>
<td>Any Business, Management or Marketing Courses</td>
<td></td>
</tr>
<tr>
<td>GENERAL EDUCATION REQUIREMENTS</td>
<td>15 UNITS</td>
</tr>
<tr>
<td>English/Communications Requirement: Recommended BUS 107, BUS 108, or ENG 101*, ENG 102*; must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.

*Recommended for students who plan to transfer and enroll in a bachelor's degree program.*

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### Suggested Course Sequence

#### MANAGEMENT - ON CAMPUS

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 135 or ACC 201</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
</tr>
<tr>
<td>BUS 108 or ENG 101</td>
<td>3</td>
</tr>
<tr>
<td>IS 101 or IS 201</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>3</td>
</tr>
<tr>
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### Suggested Course Sequence

#### MANAGEMENT - ONLINE

**Suggested Course Sequence**

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### More Information

**Good To Know:**

- Managers work in almost every industry.
- The increase in computer use may result in supervision of fewer people and the need for managers to independently perform more professional duties.

**Career Outlook:**

- Average growth
- Strong competition

**Salary:**

- $29,800-$52,000/year (Nevada)
- $35,800-$60,300/year (Nevada)

**Specialty Areas:**

- Management
- Marketing
- Real Estate

**Program:**

- Associate of Applied Science Degree
- Associate of Applied Science - Business Degree

**Recommended Courses:**

- BUS 107
- BUS 108
- BUS 109 or MATH 120
- U.S./Nevada Constitution
- Business Elective
- Science Course
- Management Elective

Note: Sequences are based on enrollment that begins with the fall semester. Some courses may not be taught each semester.
BUSINESS - Certificate of Achievement

Provides students with knowledge and skills for employment in a wide variety of occupations in the field of business.

TOTAL REQUIREMENTS  30 UNITS

PROGRAM REQUIREMENTS  15 UNITS
ACC 135 Bookkeeping I 3
or ACC 201 Financial Accounting 3
BUS 101 Introduction to Business 3
IS 101 Introduction to Information Systems 3
or IS 201 Computer Applications 3
MKT 210 Marketing Principles 3
MGT 201 Principles of Management 3

BUSINESS ELECTIVES  6 UNITS
Any Accounting, Business, Economics, Entrepreneurship, Finance, Management, Marketing or Real Estate Courses

GENERAL EDUCATION REQUIREMENTS  9 UNITS
English/Communications Requirements: Recommended: BUS 107 and BUS 108; or ENG 101 and ENG 102, must be a writing course 6
Mathematics Requirement 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

FIRST SEMESTER
Completed
ACC 135 or ACC 201 3
BUS 101 3
BUS 107 or ENG 101 3
IS 101 or IS 201 3
Business Elective 3

SECOND SEMESTER
Completed
BUS 108 or ENG 102 3
BUS 109 or MATH 120 3
MKT 210 3
Business Elective 3

BOOKKEEPING - Certificate of Achievement

Designed for students who wish to enter the accounting profession as an accounting clerk or as an entry level bookkeeper. It allows students to obtain credit for courses that will also apply toward the Associate of Applied Science in Business-Accounting.

TOTAL REQUIREMENTS  30 UNITS

PROGRAM REQUIREMENTS  21 UNITS
ACC 135 Bookkeeping I 3
ACC 201 Financial Accounting 3
BUS 101 Introduction to Business 3
IS 101 Introduction to Information Systems 3
or IS 201 Computer Applications 3
MGT 201 Principles of Management 3

Choose 6 units from the following:
ACC 180 Payroll & Employee Benefit Accounting 3
ACC 202 Managerial Accounting 3
ACC 203 Intermediate Accounting I 3
ACC 220 Microcomputer Accounting Systems 3
ACC 223 Introduction to QuickBooks 3
ACC 290 Certified Bookkeeper Course 6

GENERAL EDUCATION REQUIREMENTS  9 UNITS
English/Communications Requirements: Recommended: BUS 107, BUS 108; Must include a writing course 6
Mathematics Requirement 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

FIRST SEMESTER
Completed
ACC 135 Bookkeeping I 3
BUS 101 3
BUS 107 or ENG 101 3
IS 101 or IS 201 3
Business Elective 3

SECOND SEMESTER
Completed
BUS 108 or ENG 102 3
BUS 109 or MATH 120 3
MGT 201 3
MKT 210 3
Business Elective 3

REAL ESTATE - Certificate Preparation

WNC offers courses to prepare students for licensure by the Nevada Real Estate Division.

UNITS
RE 101 Real Estate Principles 3
RE 103 Real Estate Principles II 3

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.

BOOKKEEPING - Certificate Preparation

This course of study is for working professionals and students who wish to advance their career in the bookkeeping profession. Upon successful completion, students will be able to sit for a nationally administered exam given by the American Institute of Professional Bookkeepers. Once students pass this exam and obtain two years of bookkeeping experience, they earn the right to call themselves “Certified Bookkeepers.” To maintain certification, individuals are required to obtain 60 hours of continuing education over a three-year period.

UNITS
ACC 290 Certified Bookkeeper Course 6
COMPUTER INFORMATION TECHNOLOGY

PROFESSIONAL AND APPLIED TECHNOLOGY DIVISION

This program is designed to prepare students to work in many different information technology systems and networks that drive society and the economy. Students may study a variety of topics including networking, system administration and cybersecurity that are vital to today’s collaborative and connected business environments.

MISSION: The mission of the Associate of Applied Science in Technology is to provide employment-related knowledge and skills necessary to succeed as a professional in a chosen field of study.

STUDENT LEARNING OUTCOMES: Students who complete an Associate of Applied Science in Technology are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Developed an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Developed an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

COMPUTER INFORMATION TECHNOLOGY

Associate of Applied Science - Technology Degree

Salary: $41,260-$58,910/year (Nevada)
Career Outlook: Much faster than average growth
Good To Know: Businesses and organizations are investing heavily in cyber-security and using technology and computers as a solution to problems.

TOTAL REQUIREMENTS  60 UNITS

PROGRAM REQUIREMENTS  36 UNITS

CIT 114  IT Essentials 4
CIT 128  Introduction to Software Development 4
CIT 217  Security+ 3
CIT 263  Introduction to IT Project Management 3
INF 100  Introduction to Informatics I-Basic Concepts 3

PROGRAM ELECTIVES

Choose 19 units from the following:

CIT 129  Introduction to Programming 3
CIT 130  Beginning JAVA 3
CIT 133  Beginning C++ 3
CIT 173  Linux Installation and Configuration 3
CIT 174  Linux System Administration 3
CIT 180  Database Concept and SQL 3
CIT 211  Microsoft Networking I 4
CIT 212  Microsoft Networking II 4
CIT 213  Microsoft Networking III 4
CIT 214  Microsoft Networking IV 4
CIT 273  Network Defense 3
CIT 274  Ethical Hacker 3
CIT 275  Hacking Forensics Investigation 3
CIT 230  Advanced JAVA 3
CIT 233  Advanced C++ 3
CIT 238  Introduction to Smartphone Application Development 3
CSCO 120  CCNA Internetworking Fundamentals Elective 4
CSCO 121  CCNA Routing Protocols 4
CSCO 130  Fundamentals of Wireless LANs 4
CSCO 220  CCNA LAN Switch Wireless 4
CSCO 221  CCNA WAN Fundamentals 4
CSCO 230  Fundamentals of Network Security 4
GRC 183  Design with Photoshop 3
IS 101  Introduction to Information Systems 3
IS 201  Computer Applications 3

GENERAL EDUCATION REQUIREMENTS  24 UNITS

English/Communications Requirement: Recommended: ENG 101 and ENG 107
Must include a writing course 6
Human Relations Requirement 3
Humanities/Social Science Requirements 3
Mathematics Requirement: Recommended: MATH 126 or higher 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Elective 3

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.
**CYBERSECURITY PATHWAY**

Choose from the following Program Electives:

- CSCO 120 CCNA Internetworking Fundamentals 4
- CSCO 121 CCNSRouting Protocols 4
- CIT 212 Microsoft Networking II 3
- CIT 173 Linux Installation & Configurations 3
- CIT 273 Network Defense 3
- CIT 274 Ethical Hacker 3
- CIT 275 Hacking Forensics Investigation 3

**SYSTEM ADMINISTRATION PATHWAY**

Choose from the following Program Electives:

- CSCO 120 CCNA Internetworking Fundamentals 4
- CSCO 121 CCNS Routing Protocols 4
- CIT 212 Microsoft Networking II 3
- CIT 213 Microsoft Networking III 3
- CIT 214 Microsoft Networking IV 3
- CIT 215 Microsoft Networking V 3
- CIT 173 Linux Installation & Configurations 3

**NETWORK TECHNICIAN PATHWAY**

Choose from the following Program Electives:

- CIT 211 Microsoft Networking 3
- CIT 212 Microsoft Networking II 3
- CIT 173 Linux Installation & Configurations 3
- CSCO 120 CCNA Internetworking Fundamentals 4
- CSCO 121 CCNS Routing Protocols 4
- CSCO 220 CCNA WNE Switching & Wireless 4
- CSCO 221 CCNA WANE Fundamentals 4
- CSCO 130 Fundamentals of Wireless LANs 4
- CSCO 230 Fundamentals of Network Security 4

**COMPUTER INFORMATION TECHNOLOGY - CYBERSECURITY**

**Suggested Course Sequence**

Note: Sequence based on enrollment that begins with the fall semester.

Some courses may not be taught each semester.

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**COMPUTER INFORMATION TECHNOLOGY - NETWORK TECHNICIAN**

**Suggested Course Sequence**

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**COMPUTER INFORMATION TECHNOLOGY - SYSTEM ADMINISTRATION TECHNICIAN**

**Suggested Course Sequence**

Note: Sequence based on enrollment that begins with the fall semester.

Some courses may not be taught each semester.

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NETWORK SUPPORT TECHNICIAN

Certificate of Achievement

Emphasizes internetworking hardware and prepares students to pass the Cisco Certified Networking Associate (CCNA) exam. Coursework trains students to build and maintain the equipment infrastructure and communication protocol structure necessary to support computer and communications networks.

TOTAL REQUIREMENTS

PROGRAM REQUIREMENTS

CIT 217 Security+ 3
CIT 263 Introduction to IT Project Management 3
CSCO 120 CCNA Interworking Fundamentals 4
CSCO 121 CCNA Routing Protocols & Concepts 4
CSCO 220 CCNA LAN Switching & Wireless Fundamentals 4
CSCO 221 CCNA WAN Fundamentals 4

GENERAL EDUCATION REQUIREMENTS

English/Communications Requirements: Must include a writing course 3
Human Relations Requirement 3
Mathematics Requirement 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

SYSTEM ADMINISTRATION TECHNICIAN

Certificate of Achievement

Emphasizes operating systems software and prepares students to pass Microsoft certification exams. Coursework trains students to support operating systems and peer communications of client-server and peer-to-peer computer networks.

TOTAL REQUIREMENTS

PROGRAM REQUIREMENTS

CIT 211 Microsoft Networking I 4
CIT 212 Microsoft Networking II 4
CIT 213 Microsoft Networking III 4
CIT 214 Microsoft Networking IV 4
CIT 215 Microsoft Networking V 4
or CIT 165 Introduction to Convergence 3
or ET 155 Home Technology Convergence 3
CIT 217 Security + 3
CIT 263 Introduction to IT Project Management 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

CYBERSECURITY

Certification Preparation

WNC is an EC-Council Academic Training Partner

WNC offers certification preparation for Certified Network Defender, Certified Ethical Hacker and Computer Hacking Forensics Investigator. EC-Council certifications are recognized and respected worldwide.

TOTAL REQUIREMENTS

PROGRAM REQUIREMENTS

CIT 211 Microsoft Certification Technology Specialist (MCTS) 4
CIT 212 Microsoft Networking II 3-5
CIT 213 Microsoft Networking III 3-5
CIT 214 Microsoft Networking IV 3-5

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

MICROSOFT CERTIFICATION

Microsoft Certified Technology Specialist (MCTS)

CIT 211 Microsoft Certification Technology Specialist (MCTS)

Windows Client Exam (currently Windows 7) 4

Microsoft Certified IT Professional – Server Administrator

CIT 212 Microsoft Networking II 3-5
CIT 213 Microsoft Networking III 3-5
CIT 214 Microsoft Networking IV 3-5

CISCO TECHNOLOGY (CSCO)

Certification Preparation

WNC is an academy for the Cisco Networking Academy Program

TOTAL REQUIREMENTS

PROGRAM REQUIREMENTS

CSCO 120 CCNA Internetworking Fundamentals 4
CSCO 121 CCNA Routing Protocols and Concepts 4
CSCO 220 CCNA LAN Switching and Wireless Fundamentals 4
CSCO 221 CCNA WAN Fundamentals 4

CCNA SECURITY PREPARATION

CSCO 120 CCNA Internetworking Fundamentals 4
CSCO 121 CCNA Routing Protocols and Concepts 4
CSCO 230 Fundamentals of Network Security 4

CCNA WIRELESS PREPARATION

CSCO 120 CCNA Internetworking Fundamentals 4
CSCO 121 CCNA Routing Protocols and Concepts 4
CSCO 130 Fundamentals of Wireless LANs 4

Course for Building Scalable Cisco Internetworks Exam, required course to become a Cisco Certified Network Specialist:

CSCO 280* CCNP Advanced Routing 4

Course for Implementing Secure Covered Wide Area Networks Exams, required course to become a Cisco Certified Network Specialist:

CSCO 281* CCNP Implementing Secure Covered Wide Area Networks 4

Course for Multilayer Switching Exams, required course to become a Cisco Certified Network Specialist:

CSCO 282* CCNP Multilayer Switching 4

* Note: WNC does not issue a certificate of completion for this course.
WNC’s Construction program provides industry-specific training that addresses topics of critical importance to subcontractors, general contractors, superintendents and project managers. Students will study contract administration, coordination, negotiation, quality control and the management of labor resources, equipment and materials.

BACHELOR OF APPLIED SCIENCE

Applied Baccalaureate Degree in Construction Management

This degree allows those who have completed an associate degree in construction technology to progress academically and earn a bachelor’s degree. The Bachelor of Applied Science degree in Construction Management offers associate degree students, new students and skilled workers an educational route toward a career as a construction manager or supervisor. The 120-credit program combines knowledge in construction methods, planning and project management with business and supervisory skills. It also allows those already working in the construction field to enroll in an applicable baccalaureate degree program and expand career advancement possibilities. Students must meet with a counselor and be admitted into the program.

MISSION: The mission of the Bachelor of Applied Science Degree in Construction Management is to prepare students for entry-level and mid-level positions within the various construction industry disciplines, and to meet the goals of the Technology Division.

STUDENT LEARNING OUTCOMES: Upon completing the Bachelor of Applied Science in Construction Management program, students will be able to demonstrate:

• Knowledge in basic economic principles, business principles and construction accounting, finances and law.
• Exposure to the design theory and analysis of construction practices and systems.
• Understanding of the utilization of available resources for construction planning, methods and materials.
• Understanding, skill and knowledge of construction documents, communications, graphics and surveying.
• Skill and knowledge in construction accounting, estimating and bidding practices.
• Ability to plan and schedule construction projects.
• Application of relevant administrative skills, ethics, safety practices and problem-solving techniques to construction management.

BACHELOR OF APPLIED SCIENCE IN CONSTRUCTION MANAGEMENT

ADMISSION REQUIREMENTS

1. Complete a minimum of 30 college units or equivalent with a minimum 2.0 GPA. Within the 30 units:
   • A minimum of 12 units must be in applicable construction courses. This requirement may be waived if the student has construction experience.
   • A minimum of 12 units must be in applicable general education classes, including English 101, with a grade of C or better – a grade of C – or lower will not be acceptable.
2. OR: Have an associate degree in Construction Management from a regionally accredited institution.
3. Meet with a WNC counselor.
4. Submit application to Admission & Records.

CAPSTONE COURSE 9 UNITS

Construction Management: 456
Choose 6 units from:
Communication: 412
Math: 462, 469

ENGLISH/COMMUNICATIONS REQUIREMENTS 9 UNITS

Choose from:
Business: 107
English: 100 or 101
Communication: 101 or 113 or 213
English: 102

FINE ARTS REQUIREMENT 3 UNITS

Choose from:
Art: 100, 101, 124, 135, 141, 146, 211, 214, 224, 231, 260, 261
Humanities: 101
Music: Ensemble: 101
Music: 111, 121, 124, 125, 131, 134, 135, 176
Theatre: 100, 105, 180

HUMANITIES REQUIREMENT 3 UNITS

Choose from:
Core Humanities: 201, 202
English: 200, 223, 266
History: 105, 106, 207, 208, 209, 247
Philosophy (except for PHIL 102, 114)

MATHEMATICS AND SCIENCE REQUIREMENTS 12 UNITS

Choose from:
a minimum of 4 units in mathematics and 6 units in science:
Mathematics:
Mathematics: 126 & 127, 128 or higher
Statistics: 152
Science:
Chemistry: 100, 121
Environmental Studies: 100
Geology: 100, 101, 103
Physics: 100, 151, 180

SOCIAL SCIENCES REQUIREMENT 3 UNITS

Anthropology: 101, 201, 202, 210, 212, 215
Core Humanities: 203
Criminal Justice: 101, 102, 220, 230, 270
Geography: 106, 200
History: 101, 102, 111, 217, 295
Political Science: 103, 105, 108, 208, 231, 295, 299
Psychology (except for PSY 210)
Sociology (except for SOC 210)

U.S. AND NEVADA CONSTITUTION REQUIREMENTS - 3 TO 6 UNITS

Choose from:
Core Humanities: 203
History: 111
History: 101 and one of the following:
HIST 102, HIST 217, PSC 100, PSC 208

GENERAL ELECTIVES 6 UNITS

Choose from:
Core Humanities: 203
History: 111
History & Political Science
Combination (History 101 and Political Science 208)
Political Science: 101, 103
# CONSTRUCTION MANAGEMENT

Bachelor of Applied Science Degree

| Salary | $57,000-$84,900/year (Nevada) |
| Career Outlook | Above average growth; changes in building technology and policies are increasing the demand for construction managers. |
| Good To Know | Construction managers are often self-employed. Those with a bachelor's degree will have the best job prospects. |

## TOTAL REQUIREMENTS 120 UNITS

### BUSINESS AND MANAGEMENT CORE REQUIREMENTS 12 UNITS

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<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<td>ACC 201 Financial Accounting</td>
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</tbody>
</table>

Choose 3 units from the following Economics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100 Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103 Principles of Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 units from the following Management courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 323 Organizational Behavior &amp; Interpersonal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 367 Human Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### PROGRAM REQUIREMENTS 63 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 100 Introduction to Computer Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>CEM 100 Fundamentals of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CEM 330 Soils and Foundations for Construction</td>
<td>3</td>
</tr>
<tr>
<td>CEM 350 Facility Systems Design and Construction I</td>
<td>3</td>
</tr>
<tr>
<td>CEM 432 Temporary Construction Structures</td>
<td>3</td>
</tr>
<tr>
<td>CEM 451 Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CEM 452 Construction Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>CEM 453 Construction Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CEM 454 Heavy Construction Methods and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CEM 455 Construction Management Practice</td>
<td>3</td>
</tr>
<tr>
<td>CEM 485 Construction Law and Contracts</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108 Construction Materials and Methods I</td>
<td>4</td>
</tr>
<tr>
<td>CONS 109 Construction Materials and Methods II</td>
<td>4</td>
</tr>
<tr>
<td>CONS 111 Commercial Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>CONS 118 Construction Contract Documents</td>
<td>2</td>
</tr>
<tr>
<td>CONS 120 Blue Print Reading and Specifications</td>
<td>3</td>
</tr>
<tr>
<td>CONS 121 Principles of Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CONS 205 Construction Site Safety</td>
<td>2</td>
</tr>
<tr>
<td>CONS 281 Construction Planning Scheduling And Control</td>
<td>3</td>
</tr>
<tr>
<td>CONS 451 Advanced Internship in Construction</td>
<td>3</td>
</tr>
<tr>
<td>SUR 119 Construction Surveying</td>
<td>3</td>
</tr>
</tbody>
</table>

### GENERAL EDUCATION REQUIREMENTS 45 UNITS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capstone Courses (CEM 456 required)</td>
<td>9</td>
</tr>
<tr>
<td>English/Communications Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Fine Arts Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics, Science and Statistics Requirements</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
</tr>
<tr>
<td>Recommended: AC 198, CONS 114, CONS 116, CONS 230 or DFT 100</td>
<td></td>
</tr>
</tbody>
</table>

Construction courses follow the National Center for Construction Education and Research (NCCER) Contren Learning Series curriculum.
Salary: $24,600-$46,600/year (Nevada)
Career Outlook: Average growth
Good To Know: Employment depends on economy, and layoffs may occur during times of low construction activity. Changes in building technology and policies may increase the need for construction personnel.

MISSION: The mission of the Associate of Applied Science in Technology is to provide employment-related knowledge and skills necessary to succeed as a professional in a chosen field of study.

STUDENT LEARNING OUTCOMES: Students who complete an Associate of Applied Science in Technology are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Developed an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Developed an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS
CADD 100 Introduction to Computer Aided Drafting 3
CEM 100 Fundamentals of Construction Management 3
CONS 108 Construction Materials and Methods I 4
CONS 109 Construction Materials and Methods II 4
CONS 111 Building Codes 3
CONS 118 Construction Contract Documents 2
CONS 120 Blueprint Reading and Specification 3
CONS 121 Principles of Construction Estimating 3
CONS 205 Construction Site Safety 2
CONS 281 Construction Planning Scheduling and Control 3
CONS 290 Internship in Construction 3
SUR 119 Construction Surveying 3

GENERAL EDUCATION REQUIREMENTS 24 UNITS
English/Communications Requirement: Recommended: BUS 107, Must include a writing course 6
Human Relations: Recommended: BUS 110 3
Humanities/Social Science Requirement 3
Mathematics Requirement: MATH 126 or higher 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Elective 3

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.

WNC offers a Certificate of Achievement Pathway for individuals earning credit through the Building Trades Apprenticeship Program. For information, contact the PAT division.

CERTIFIED INSPECTOR OF STRUCTURES – STATE OF NEVADA
Certification Preparation
These courses fulfill the minimum course requirements needed for licensure as a certified inspector of Structures-Residential.

UNITS
CONS 260 Certified Inspector of Structures-Residential 3
CONS 261 Under Floor Inspections-Certified Inspector 1
CONS 262 Above Floor Inspections-Certified Inspector 2
CONS 263 Supervised Residential Inspections for Certification 2

RAMSDELL CONSTRUCTION ACADEMY
Certification Preparation
Classes will prepare students for entry-level positions in the construction industry. This certificate of completion is also available to high school seniors through Jump Start CTE.

UNITS
CEM 100 Fundamentals of Construction Management 3
CONS 108 Construction Methods/Materials I 4
CONS 109 Construction Methods/Materials II 4
CONS 111 Commercial Building Codes 3
CONS 118 Construction Contract Documents 2
CONS 120 Blueprint Reading and Specification 3
CONS 205 Construction Safety 2
CONS 290 Internship in Construction 3

CONSTRUCTION GATEWAY CONSTRUCTION CRAFT LABORER
Certification Preparation
These courses prepare students for the National Center for Construction Education and Research (NCCER) Construction Craft Laborer credential, which certifies that individuals possess basic knowledge needed on any jobsite.

UNITS
CEM 100 Fundamentals of Construction Management 3
CONS 108 Construction Methods/Materials I 4
CONS 205 Construction Safety 2
Criminal Justice

PROFESSIONAL AND APPLIED TECHNOLOGY DIVISION

This program provides students the opportunity to explore all areas of the criminal justice system, including law enforcement, policing and investigations, corrections, parole and probation, prosecution and courts, juvenile justice, and rehabilitation options within the community. Students will receive valuable access and networking with experienced instructors who have studied and worked extensively in all areas of the criminal justice system. Students interested in pursuing a bachelor degree in criminal justice should choose the Associate of Arts degree and work closely with a counselor when choosing their classes.

MISSION: The purpose of the criminal justice degree is to provide the academic knowledge and skills in the criminal justice field.

STUDENT LEARNING OUTCOMES: Students who complete the Associate of Applied Science degree in Criminal Justice are expected to demonstrate they can:

• Meet the general education requirements of WNC.
• Maintain proper professional attitude for law enforcement.
• Articulate the legal requirements of search and seizure.
• Recognize and evaluate criminal law.
• Process crime scenes.
• Analyze theories for committing crimes.
• Maintain vocabulary necessary for criminal justice.
• Have an acute awareness of cultural diversity.
• Maintain crime scenes.

CRIMINAL JUSTICE

Associate of Applied Science Degree

Salary: $34,700-$74,100/year (Nevada)
Career Outlook: Average growth
Good To Know: Emphasis on public safety and security may lead to new openings; jobs will be competitive because of low turnover rate.

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS

CRJ 101* Introduction to Criminal Justice I 3
CRJ 102* Introduction to Criminal Justice II 3
CRJ 106* Introduction to Corrections 3
CRJ 155 Juvenile Justice System 3
CRJ 164 Principles of Investigation 3
CRJ 211* Police in America 3
CRJ 222** Criminal Law and Procedures 3
CRJ 234** Introduction to Courts/American Legal System 3
CRJ 225 Criminal Evidence 3
CRJ 270 Introduction to Criminology 3

Choose 6 units from the following:

Any CRJ course 1-6
ART 135 Darkroom Photography I 3
ART 141 Introduction to Digital Photography I 3
BUS 107 Business Speech Communications 3
COM 101 Oral Communications 3
CPD 116 Substance Abuse-Fundamental Facts 3
CPD 117 Introduction to Counseling 3
CPD 129 Assertiveness Techniques I 1
STAT 152 Introduction to Statistics 3
SW 230 Crisis Intervention 3
Any IS, CIT, or GT course 1-6
Any Foreign Language 1-6
Any PSY or SOC 1-6

*Direct transfer to UNR for CRJ major

GENERAL EDUCATION REQUIREMENTS 24 UNITS

English/Communications Requirement: Recommend ENG 101 and 102 6
Humanities Requirement 3
Mathematics Requirement: Recommended: MATH 120* or higher 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Electives 6

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.

CRIMINAL JUSTICE - Suggested Course Sequence

FIRST SEMESTER Completed
CRJ 101 3
ENG 101 3
General Elective 3
Humanities Requirement 3
Math Requirement 3

SECOND SEMESTER Completed
CRJ 102 3
CRJ 106 3
CRJ 155 3
General Elective 3
ENG 102 3

THIRD SEMESTER Completed
CRJ 164 3
CRJ 211 3
CRJ 222 3
Program Elective 3
Science Requirement 3

FOURTH SEMESTER Completed
CRJ 225 3
CRJ 234 3
CRJ 270 3
Program Elective 3
U.S./Nevada Constitution 3

CRIMINAL JUSTICE - ON CAMPUS

Certificate of Achievement

TOTAL REQUIREMENTS 30 UNITS

PROGRAM REQUIREMENTS 24 UNITS

CRJ 101 Introduction to Criminal Justice I 3
CRJ 102 Introduction to Criminal Justice II 3
CRJ 103 Communication Within the Criminal Justice Field 3
CRJ 164 Principles of Investigation 3
CRJ 106 or Introduction to Corrections 3
CRJ 211 Police in America 3
CRJ 222 Criminal Law and Procedures 3
CRJ 225 Criminal Evidence 3
CRJ 270 Introduction to Criminology 3

GENERAL EDUCATION REQUIREMENTS 6 UNITS

English/Communications Requirements: Must include writing course 3
Mathematics Requirement 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

CRIMINAL JUSTICE - ONLINE

Suggested Course Sequence

FIRST SEMESTER Completed
CRJ 101 3
CRJ 102 3
CRJ 106 3
CRJ 155 3

SECOND SEMESTER Completed
CRJ 101 3
CRJ 102 3
CRJ 106 3
CRJ 155 3

THIRD SEMESTER Completed
CRJ 164 3
CRJ 211 3
CRJ 222 3

FOURTH SEMESTER Completed
CRJ 225 3
CRJ 234 3
CRJ 270 3

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS

CRJ 101* Introduction to Criminal Justice I 3
CRJ 102* Introduction to Criminal Justice II 3
CRJ 106* Introduction to Corrections 3
CRJ 155 Juvenile Justice System 3
CRJ 164 Principles of Investigation 3
CRJ 211* Police in America 3
CRJ 222** Criminal Law and Procedures 3
CRJ 234** Introduction to Courts/American Legal System 3
CRJ 225 Criminal Evidence 3
CRJ 270 Introduction to Criminology 3

Choose 6 units from the following:

Any CRJ course 1-6
ART 135 Darkroom Photography I 3
ART 141 Introduction to Digital Photography I 3
BUS 107 Business Speech Communications 3
COM 101 Oral Communications 3
CPD 116 Substance Abuse-Fundamental Facts 3
CPD 117 Introduction to Counseling 3
CPD 129 Assertiveness Techniques I 1
STAT 152 Introduction to Statistics 3
SW 230 Crisis Intervention 3
Any IS, CIT, or GT course 1-6
Any Foreign Language 1-6
Any PSY or SOC 1-6

*Direct transfer to UNR for CRJ major

GENERAL EDUCATION REQUIREMENTS 24 UNITS

English/Communications Requirement: Recommend ENG 101 and 102 6
Humanities Requirement 3
Mathematics Requirement: Recommended: MATH 120* or higher 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Electives 6

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.
Deaf Studies

PROFESSIONAL AND APPLIED TECHNOLOGY DIVISION

This degree will help students develop knowledge about American Sign Language, cultural impacts related to being deaf or hard of hearing and the state of Nevada statutory regulations that govern interpreting. Students will prepare for a variety of careers including teaching, social work, psychology, speech and language pathology or any career that interacts with the deaf.

MISSION The mission of the Western Nevada College Deaf Studies AAS Degree Program is to provide a quality education to students, thus developing their comprehensive expressive/receptive skills in American Sign Language, fingerspelling fluency and knowledge of the history and culture of people who are deaf or hard of hearing. Students are provided a strong foundation in which to enter numerous high-demand professional fields that provide services to deaf or hard-of-hearing people.

STUDENT LEARNING OUTCOMES: Upon completing the Deaf Studies Associate of Applied Science degree, students will be able to:

• Produce basic expressive/receptive sign language communicative skills.
• Demonstrate appropriate ASL linguistic and grammatical structure in signing.
• Demonstrate functional language aptitude in American Sign Language including expressive/receptive signing.
• Demonstrate knowledge of linguistic, cultural, educational and social aspects of linguistic aspects in relation to the history of people who are deaf or hard of hearing.
• Demonstrate basic fluency in receptive and expressive pragmatics and production of fingerspelling in ASL.

DEAF STUDIES - Suggested Course Sequence

Note: Sequence based on enrollment that begins with the fall semester. Some courses may not be taught each semester.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 140*</td>
<td>6 □</td>
</tr>
<tr>
<td>AM 151</td>
<td>1 □</td>
</tr>
<tr>
<td>AM 254</td>
<td>3 □</td>
</tr>
<tr>
<td>English/Comm. Course</td>
<td>3 □</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3 □</td>
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<tr>
<td>**SECOND SEMESTER</td>
<td>Completed**</td>
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<tr>
<td>AM 141**</td>
<td>6 □</td>
</tr>
<tr>
<td>AM 152</td>
<td>1 □</td>
</tr>
<tr>
<td>AM 253</td>
<td>3 □</td>
</tr>
<tr>
<td>English/Comm. Course</td>
<td>3 □</td>
</tr>
<tr>
<td>Hum. / Soc. Science Course</td>
<td>3 □</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 149</td>
<td>4 □</td>
</tr>
<tr>
<td>AM 216</td>
<td>4 □</td>
</tr>
<tr>
<td>Math Course</td>
<td>3 □</td>
</tr>
<tr>
<td>U.S./Nev. Constitution</td>
<td>3 □</td>
</tr>
<tr>
<td>**FOURTH SEMESTER</td>
<td>Completed**</td>
</tr>
<tr>
<td>AM 150</td>
<td>4 □</td>
</tr>
<tr>
<td>AM 215</td>
<td>4 □</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 □</td>
</tr>
<tr>
<td>(Theatre 105 Recommended)</td>
<td></td>
</tr>
<tr>
<td>Science Course</td>
<td>3 □</td>
</tr>
</tbody>
</table>

Course scheduling will alternate each academic year to accommodate both day and evening schedules. Refer to class listings in myWNC.

DEAF STUDIES

Associate of Applied Science Degree

Salary: $26,180-$53,310/year (Nevada)
Career Outlook: Faster than average growth. Demand is expected to increase due in part to laws requiring that services be made available to the deaf.
Good To Know: Many careers require education and certification beyond the AAS degree.

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS

| AM 140* | American Sign Language I/II | 6 |
| AM 141** | American Sign Language III/IV | 6 |
| AM 149  | American Sign Language V | 4 |
| AM 150  | American Sign Language VI | 4 |
| AM 151  | Fingerspelling I | 1 |
| AM 152  | Fingerspelling II | 1 |
| AM 215  | Conversational ASL | 4 |
| AM 216  | Receptive ASL | 4 |
| AM 253  | Deaf Culture | 3 |
| AM 254  | Deaf History | 3 |

GENERAL EDUCATION REQUIREMENTS 24 UNITS

| English/Communications Requirements: Must include a writing course | 6 |
| Human Relations Requirement | 3 |
| Humanities/Social Science Requirement | 3 |
| Mathematics Requirement | 3 |
| Science Requirement | 3 |
| U.S. and Nevada Constitution Requirement | 3 |
| General Elective (Theatre 105 recommended) | 3 |

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.

AM 145-148 will not be offered effective Fall 2020.
*Students can take AM 145 and AM 146 in lieu of AM 140 for slower-paced courses.
**Students can take AM 147 and AM 148 in lieu of AM 141 for slower-paced courses.
TOTAL REQUIREMENTS 30 UNITS

PROGRAM REQUIREMENTS 18 UNITS
AM 140* American Sign Language I/II 6
AM 141** American Sign Language III/IV 6
AM 151 Fingerspelling I 1
AM 152 Fingerspelling II 1
Any other AM course 4

GENERAL EDUCATION REQUIREMENTS 12 UNITS
English/Communications Requirements: Must include a writing course 6
Human Relations Requirement 3
Mathematics Requirement 3

This course of study prepares students to take the Educational Interpreter Performance Assessment or the National Interpreter Certification Exam.

FIRST SEMESTER
AM 149 American Sign Language V 4
AM 201 Interpreting I 3
AM 215 Conversational American Sign Language 4

SECOND SEMESTER
AM 150 American Sign Language VI 4
AM 202 Interpreting II 3
AM 216 Receptive American Sign Language 4

THIRD SEMESTER
AM 203 Interpreting III 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.
AM 145-148 will not be offered effective Fall 2020.
*Students can take AM 145 and AM 146 in lieu of AM 140 for slower-paced courses.
**Students can take AM 147 and AM 148 in lieu of AM 141 for slower-paced courses.
Students can prepare for transfer to a four-year institution or earn a certificate in Early Childhood Education. Students interested in a bachelor’s degree in education should use education courses as electives in an Associate of Arts or Associate of Science transfer degree.

### EARLY CHILDHOOD EDUCATION

**Certificate of Achievement**

Students will prepare to work in early childhood settings (day care, preschool education and community education programs) and learn human development and cognitive skills associated with early childhood and Pre-K children. Students interested in transferring to a four-year education program should consult with an academic counselor.

**TOTAL REQUIREMENTS**

<table>
<thead>
<tr>
<th>PROGRAM REQUIREMENTS</th>
<th>21 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 121 Parent Care Relations</td>
<td>1</td>
</tr>
<tr>
<td>ECE 122 Observation Skills</td>
<td>1</td>
</tr>
<tr>
<td>ECE 129 Environment for Infant &amp; Toddler</td>
<td>1</td>
</tr>
<tr>
<td>ECE 204 Principles of Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>ECE 231 Preschool Practicum: Early Childhood Lab</td>
<td>3</td>
</tr>
<tr>
<td>ECE 250 Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECE 251 Curriculum in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>HDFS 201 Life Span Human Development</td>
<td>3</td>
</tr>
<tr>
<td>Choose 1-3 credits from related courses in any of the following subject areas: Early Childhood Education, Psychology, Human Development &amp; Family Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>9 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirements: Recommended: BUS 108 Must include a writing course</td>
</tr>
<tr>
<td>Mathematics Requirement: Recommended: BUS 109</td>
</tr>
</tbody>
</table>

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page. Some courses are not taught each semester. Students should work with a counselor for suggested courses by semester.

### TEACHER EDUCATION

WNC offers introductory courses in teacher education that can transfer to universities of colleges that offer a bachelor’s degree in education, including the University of Nevada, Reno and/or Nevada State College. These courses offer students a chance to prepare for a career in education. Through a well-established partnership with local schools, field experiences are an integral and early part of all teacher preparation courses. These courses can also be used to gain a substitute license or for paraprofessionals needing to qualify under federal legislation.

Students can transfer to Nevada State College and take classes at WNC locations and online to earn a bachelor’s degree and certification in elementary education.

They may also transfer to the University of Nevada, Reno to pursue a bachelor’s degree and certification in elementary education, special education/dual or secondary education.

### NEVADA STATE COLLEGE PARTNERSHIP

**Bachelor of Arts in Elementary or Special Education – Transfer Program**

WNC students who have an Associate of Arts degree or are close to completing the first two years of college can complete a four-year degree without leaving the Northern Nevada area. Through a partnership with NSC, students can take classes at WNC locations and online to earn a bachelor’s degree and certification in Elementary Education, K-8.

Contact PAT division for more information.
MISSION: The Associate of Applied Science degree in Graphic Design will provide employment-related knowledge and skills necessary to succeed in the Graphic Design field. The degree will meet educational criteria for employment and prepare the student for possible transfer to other colleges and universities to meet higher educational and professional goals.

STUDENT LEARNING OUTCOMES: Associate of Applied Science in Graphic Design graduates are expected to:

- Apply technical skills in current design technologies.
- Identify and apply design concepts.
- Develop a portfolio of work demonstrating design skills.
- The combination of student learning outcomes for this program and general education.
- Meet the WNC Institutional Student Learning Outcomes.

Salary: $28,300-$48,400/year (Nevada)
Career Outlook: Average growth.
Good To Know: Opportunities are highest for graphic designers with knowledge and training in website design and animation.

TOTAL REQUIREMENTS 60 UNITS
PROGRAM REQUIREMENTS 36 UNITS
ART 100* Visual Foundations or ART 101 Drawing 1 3
GRC 116 Introduction to Digital Art and Design 3
GRC 175 Web Design I 3
GRC 200 Design Thinking and Methodologies 3
GRC 210 Typography I 3
GRC 220 Graphic Design I 3
GRC 282 Motion Graphics for Video 3
GRC 275 Web Design II or ART 261* Survey of Art History II 3
GRC 294 Professional Portfolio 3
MKT 210 Marketing Principles 3
Any other ART class (Recommend ART 141*) 3

GENERAL EDUCATION REQUIREMENTS 24 UNITS
English/Communications Requirements: Must include a writing course 3
Mathematics Requirement 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Electives 9

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page.

TOTAL REQUIREMENTS 30 UNITS
PROGRAM REQUIREMENTS 24 UNITS
ART 100 Visual Foundations or ART 101 Drawing 1 3
GRC 116 Introduction to Digital Art and Design 3
GRC 175 Web Design I 3
GRC 200 Design Thinking and Methodologies 3
GRC 210 Typography I 3
GRC 220 Graphic Design I 3
GRC 282 Motion Graphics for Video 3
MKT 210 Marketing Principles 3
Any other ART class (Recommend ART 141*) 3

GENERAL EDUCATION REQUIREMENTS 6 UNITS
English/Communications Requirements: Must include a writing course 3
Mathematics Requirement 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

*Courses transfer to UNR or TMCC. Students should work closely with a counselor when planning their schedules.
MISSION: The mission of the Associate of Applied Science in Technology is to provide employment-related knowledge and skills necessary as a professional in a chosen field of study.

STUDENT LEARNING OUTCOMES: Students who complete an Associate of Applied Science in Technology are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Developed an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Developed an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS
DFT 110 Blueprint Reading For Industry 3
MTT 105 Machine Shop I 3
MTT 106 Machine Shop Practice I 2
MTT 110 Machine Shop II 3
MTT 111 Machine Shop Practice II 2
MTT 230 Computer Numerical Control I 4
MTT 232 Computer Numerical Control II 4
MTT 250 Machine Shop III 3
MTT 251 Machine Shop Practice III 2
MTT 260 Machine Shop IV 3

Choose 7 units from the following program electives:
AIT 101 Fundamentals of Applied Industrial Technology 4
MTT 261 Machine Projects 1-6
MTT 262 Machine Shop Practice IV 2
MTT 292 Computer-Aided Manufacturing I 4
MTT 293 Computer-Aided Manufacturing II 4
MTT 295 Work Experience 1-6
Any MTT course 1-6
Related WELD or other technical/trade course 1-6

GENERAL EDUCATION REQUIREMENTS 24 UNITS
English/Communications Requirement: Recommended: BUS 107 6
Must include a writing course
Human Relations: Recommended: BUS 110 3
Humanities/Social Science Requirements 3
Mathematics Requirement: Recommended: MATH 110 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Elective 3

A list of all courses filling general education requirements for the Associate of Applied Science degree can be found on the Associate of Applied Science page

MACHINE TOOL TECHNOLOGY - Suggested Course Sequence
Note: Sequence based on enrollment that begins with the fall semester. Some courses may not be taught each semester.

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>MTT 105</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTT 106</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>English Course (Bus 107 Recommended)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Human Relations Course</td>
<td>3</td>
</tr>
<tr>
<td>SECOND SEMESTER</td>
<td>DFT 110</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MTT 110</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTT 111</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>English Course</td>
<td>3</td>
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<tr>
<td></td>
<td>Mathematics Course</td>
<td>3</td>
</tr>
<tr>
<td>THIRD SEMESTER</td>
<td>MTT 230</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTT 250</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTT 251</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities/Social Science Course</td>
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<tr>
<td></td>
<td>Program Elective</td>
<td>3</td>
</tr>
<tr>
<td>FOURTH SEMESTER</td>
<td>MTT 232</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTT 260</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Program Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>

Salary: $26,800-$56,500/year (Nevada)
Career Outlook: Average growth. Jobs available due to difficulty finding skilled workers.
Good To Know: Often work with computer numerical control (CNC) machines.
Students will prepare for entry into machining occupations. Learn setup and use of industrial equipment and tools utilized by machinist to manufacture parts for all types of machines. Operation of CNC (computer numerical control) lathes and mills and other hand tools preparing students for National Institute for Metalworking Skills (NIMS) exams Levels 1 and 3.

<table>
<thead>
<tr>
<th>TOTAL REQUIREMENTS</th>
<th>30 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PROGRAM REQUIREMENTS</strong></td>
<td>20 UNITS</td>
</tr>
<tr>
<td>DFT 110 Blueprint Reading For Industry</td>
<td>3</td>
</tr>
<tr>
<td>or CONS 120 Blueprint Reading and Specification</td>
<td></td>
</tr>
<tr>
<td>MTT 105 Machine Shop I</td>
<td>3</td>
</tr>
<tr>
<td>MTT 106 Machine Shop Practice I</td>
<td>2</td>
</tr>
<tr>
<td>MTT 110 Machine Shop II</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111 Machine Shop Practice II</td>
<td>2</td>
</tr>
<tr>
<td>MTT 230 Computer Numerical Control I</td>
<td>4</td>
</tr>
<tr>
<td>Related machine shop courses</td>
<td>3</td>
</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS** 10 UNITS

- English/Communications Requirements: Recommended BUS 108; Must include a writing course 6
- Human Relations Requirement 1
- Mathematics Requirement MATH 100 recommended 3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

<table>
<thead>
<tr>
<th>MACHINE TOOL TECHNOLOGY - Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong> Completed</td>
</tr>
<tr>
<td>MTT 105</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>MTT 106</td>
</tr>
<tr>
<td>2</td>
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<tr>
<td>Human Relations Course</td>
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<td>1</td>
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<tr>
<td>GE English/Comp Course</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>Mathematics Course</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MTT Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**MACHINE TOOL TECHNOLOGY**

Certification Preparation

The National Institute for Metalworking Skills (NIMS) offers various levels of certification in machining.

**LEVEL 1: CHUCKING, SURFACE GRINDING AND MILLING**

| MTT 105     | Machine Shop I |
| 3          |                |
| MTT 110     | Machine Shop II|
| 3          |                |
| MTT 250     | Machine Shop III|
| 3          |                |

**LEVEL 3: MEASUREMENT**

| MTT 230     | Computer Numerical Control I |
| 4          |                               |
| MTT 232     | Computer Numerical Control II |
| 4          |                               |
| MTT 260     | Machine Shop IV               |
| 3          |                               |

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
WNC’s Associate Degree Nursing Program is intended for students seeking a career as a registered nurse. The curriculum is sequenced and progresses in complexity. It integrates knowledge from the bio/psycho/social sciences, literacy, mathematics and humanities and is intended to prepare graduates to pass the national licensure examination (NCLEX-RN) and to function as registered nurses in diverse care settings. Upon completion of the Associate Degree Nursing Program, students will be awarded an Associate of Applied Science degree. Graduates are eligible to sit for the NCLEX-RN.

The nursing program is approved by the Nevada State Board of Nursing exam (NSBN) and is accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, ph: 404-975-5000. Applicants are advised that eligibility for licensure may be affected by the existence of a criminal record, a history of alcohol or drug abuse, and mental or physical illness that may interfere with the practice of nursing. Applicants are encouraged to directly contact the NSBN at 1-775-687-7700 or 888-590-6726 should there be a concern regarding eligibility for licensure.

A limited number of qualified students are admitted as first semester students utilizing the selection criteria outlined on the next page. The nursing program requires that pre-and corequisite courses be completed with a grade of “C” or better (a C- or lower grade will not be accepted). Students admitted to the program are required to attend mandatory one-day orientation sessions scheduled for late spring or early summer and prior to the start of classes.

MISSION: The Nursing Program reflects the mission of Western Nevada College by assisting students to develop professional competencies that value nurturing and a respect for differences, use of evidence-based practice, ethical integrity, a spirit of inquiry and introspection. The development of the competencies prepares students to function as safe, entry-level professional nurses and to transfer to higher degree programs.

STUDENT LEARNING OUTCOMES:
- Incorporate principles from the bio/psycho/social sciences, mathematics, literacy and nursing in the provision of patient care.
- Apply the nursing process in a caring manner to safely meet the holistic needs of patients across the life span.
- Utilize a broad range of communication skills to promote understanding.
- Utilize a spirit of inquiry to integrate current evidence-based guidelines and nursing science when making clinical practice decisions.
- Apply concepts of caring, cultural sensitivity and respect for all persons.
- Apply concepts of teaching and learning to empower patients and families to effectively manage health care.
- Incorporate principles of collaboration and teamwork with patients, families and the health care team to achieve patient-centered care.
- Provide and manage care that reflects values of nursing within professional standards and legal parameters of the profession.

NURSING ADMISSION/SELECTION CRITERIA

Admission to the nursing program will be based on special admission procedures and the number of points an applicant receives. Eligible students will be numerically ranked according to total points. In the event of applicants having an equal number of points, lots will be drawn to decide eligibility. Admission will be offered to the applicants on the list with the highest priority points. Applicants not selected will not be carried forward and must reapply for consideration.

SELECTION CRITERIA POINTS

<table>
<thead>
<tr>
<th>Science GPA</th>
<th>2.0-2.25</th>
<th>2.26-2.50</th>
<th>2.51-2.75</th>
<th>2.76-3.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL &amp; CHEM pre and corequisite courses</td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
<tr>
<td>3.01-3.25</td>
<td></td>
<td>3.26-3.50</td>
<td>3.51-3.75</td>
<td>3.76-4.00</td>
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<tr>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
<td>(8)</td>
<td></td>
</tr>
<tr>
<td>GPA</td>
<td>2.0-2.49</td>
<td>2.5-2.99</td>
<td>3.0-3.49</td>
<td>3.5-4.0</td>
</tr>
<tr>
<td>pre- and corequisite courses</td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
</tbody>
</table>

(A grade of C or better is required for all pre and corequisite courses in the nursing program. A C- or lower will not be accepted.)

Academic Skills Test: 0-4 points will be awarded based on test scores.

Nevada Resident: An applicant who is classified as a Nevada resident for tuition purposes at Western Nevada College at the time of application to the nursing program will be awarded one (1) point in the nursing admissions selection criteria.

Maximum Possible Points: 17
NURSING PROGRAM APPLICATION PROCESS

Students must apply for admission to Western Nevada College AND the WNC nursing program. Applications for the next fall are available on the WNC Nursing & Allied Health Web page on or after Jan. 2. The last date for submission of an application to Admissions and Records is April 1.

PREREQUISITES: Students must complete all prerequisite courses with a grade of "C" or better to apply for the nursing program. (C- or lower will not be accepted.) Students may apply for admission to the nursing program while in the process of completing a prerequisite course(s), provided the course is completed by the end of the applicable spring semester or, if taken at another institution, an official transcript showing completion of the course is provided by June 1 of the year of application. Evidence of courses in progress must be submitted by the application deadline.

COREQUISITES: Students who are accepted into the nursing program must complete all corequisite courses with a grade of "C" or better by the end of the fourth semester of the program. (A grade of C- or lower will not be accepted.) Any corequisite course(s) completed with a "C-" or better prior to admission into the nursing program will be calculated into the grade point average under admission selection criteria.

ACADEMIC SKILLS TESTING: Students are required to take the Health Education Systems Incorporated Admission Assessment examination as part of the application process. Visit www.wnc.edu/nalh/admissions/ after September for specific information.

RESIDENCY: An applicant who is classified as a Nevada resident for tuition purposes at WNC at the time of application to the nursing program will be awarded one point in the nursing admissions/selection criteria.

APPLICATION AND SUPPORTING DOCUMENTS: Submit the completed application with supporting documents, which include the academic skills test results and all required college and university transcripts, as appropriate, to Admissions and Records in the time frame delineated on the nursing program application.

NOTE: Statute of Limitation for science courses is five years by the date of application to the nursing program.

NOTE: Current CNA Certification or completion of NURS 130 required within five years of the date of application to the nursing program.

OTHER IMPORTANT INFORMATION

• Nursing learning activities are scheduled on and off campus on days, evenings and weekends.

• Course organization requires students to have basic computer skills, including the ability to navigate various online learning programs.

• Clinical experiences take place at long-term health care facilities, acute care hospitals, clinics and day care centers.

• A grade of C (75 percent) or better is required in all nursing courses to continue in the nursing program. A grade of C- or lower will not be accepted.

• Students not admitted to the nursing program must reapply to be considered for admission the following year.

• Nursing students are expected to meet the Nursing Student Essential Abilities as discussed on the nursing Web page.

• Documentation and currency of the following is required after acceptance into the nursing program and prior to the start of classes:

  • An acceptable physical examination and required immunizations and tests.

  • CPR certification (card required) through the American Heart Association (Basic Life Support) or the American Red Cross (Healthcare Provider).

  • Major medical health insurance (card required).

  • An acceptable background check.

A background check is required by health care organizations. Students will be conditionally accepted into WNC’s nursing program until their background check information is approved by the clinical sites. Should clinical sites not approve a student, the conditional acceptance will be withdrawn and the student will not be admitted into the nursing program. Students will be denied entrance into the WNC nursing program if an adverse background check is received from a clinical site. Drug screening may also be required by clinical sites. Students will be informed of the requirement when necessary.

NURSING PROGRAM READMISSION POLICIES

1. At the conclusion of each semester of study, the Nursing Program Faculty Committee discusses students who failed or withdrew from courses during the semester. The faculty acknowledges the responsibility to readmit students, who in their judgment satisfy the requirements of scholarship and professional suitability for nursing. The faculty reserves the right to deny readmission based on a history of unprofessional conduct that violates the ANA Code of Ethics.

2. A student who matriculates into the nursing program may be readmitted one time following a withdrawal/failure. A written request for an exception to the policy for such reasons as medical and military will be considered by nursing program faculty. Students who are eligible to be considered for readmission into the nursing program will be admitted using a point system and on a space-available basis.

3. Students seeking readmission into the nursing program will be required to demonstrate currency of knowledge and skills by passing competency evaluations for selected nursing theory and laboratory courses previously successfully completed. Students may choose the option to repeat those courses or will be required to repeat those courses if the competency evaluations are not passed. A score of 75% or more is required for each theory competency evaluation and a passing grade is required for selected skill evaluations, including basic nursing assessment skills, in order to be readmitted into the nursing program.
4. A student must submit a letter to the Director of Nursing & Allied Health informing the director that he/she wishes to challenge courses previously successfully completed. The letter must be received within two weeks of receiving the acceptance letter for readmission into the nursing program. Upon receipt of the letter, the director will discuss the challenge process with the student and will schedule the challenge evaluations.

5. Students who withdrew from or who failed a course or courses that are related (e.g. NURS 136, 137 & 141) will be required to repeat all courses in the sequence. Students electing to challenge courses previously passed will be required to pass all courses that are related. For example, a student who had passed NURS 136 challenge evaluation but who fails the NURS 137 challenge evaluation will be required to repeat the sequence of courses.

6. Nursing courses taken more than 2 years prior to reapplication will need to be repeated.

7. Students seeking readmission into the nursing program will be required to submit an acceptable background check.

### NURSING

**Associate of Applied Science Degree**

| Salary: | $64,400-$85,000/year (Nevada) |
| Career Outlook: | High growth, especially in home health care and nursing homes. |
| Good To Know: | Hospital nurses tend to earn more than nurses in doctors’ offices; may include working days, nights, weekends or holidays. |

### TOTAL REQUIREMENTS 71.5 UNITS

<table>
<thead>
<tr>
<th>PREREQUISITE COURSES*</th>
<th>21 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 190 Introduction to Cell and Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 223* Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 224* Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120 Fundamentals of College Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 126 Precalculus I or higher MATH course</td>
<td></td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

*BIOI 223 & BIOL 224 must be completed at the same college or university it taken at an institution other than within Nevada System of Higher Education.

**NOTE:** Statute of Limitation for science courses is five years by the date of application to the nursing program.

Current CNA Certification or completion of NURS 129 or NURS 130 required within five years of the date of application to the nursing program is a required prerequisite.

### COREQUISITE (NON-NURSING) COURSES 10 UNITS

| BIOL 251 General Microbiology | 4 |
| or U.S./Nevada Constitutions Course (PSC 101, HIST 111 or CH 203 recommended) | 3 |

**NOTE:** Corequisite courses must be completed by the end of the fourth semester of the nursing program. See the Associate of Applied Science degree for more information on courses fulfilling the general education requirement. Completion of Chemistry 121 or Biology 190/190L, 223, 224 and 251 fulfills the science general education requirement for the Associate of Applied Science degree in Nursing.

### FIRST YEAR: FALL SEMESTER COURSES 10 UNITS

| NURS 136 Foundations of Nursing Theory | 3 |
| NURS 137 Foundations of Nursing Laboratory | 1 |
| NURS 141 Foundations of Nursing Clinical | 2 |
| NURS 147 Health Assessment Theory | 2 |
| NURS 148 Health Assessment Laboratory | 1 |
| NURS 152 Foundations of Pharmacology in Nursing I | 1 |

### FIRST YEAR: SPRING SEMESTER COURSES 11 UNITS

| NURS 149 Mental Health and Illness Theory | 3 |
| NURS 151 Mental Health and Illness Clinical | 1 |
| NURS 153 Foundations of Pharmacology in Nursing II | 1 |
| NURS 165 Medical Surgical Nursing I Theory | 3 |
| NURS 166 Medical Surgical Nursing I Laboratory | 1 |
| NURS 167 Medical Surgical Nursing I Clinical | 2 |

### SECOND YEAR: FALL SEMESTER COURSES 9 UNITS

| NURS 156 Foundations of Pharmacology in Nursing II | 1 |
| NURS 261 Nursing Care of the Family Theory | 2 |
| NURS 262 Nursing Care of the Family Lab/Clinical | 1 |
| NURS 270 Advanced Clinical Nursing I Theory | 3 |
| NURS 271 Advanced Clinical Nursing I Clinical | 2 |

### SECOND YEAR: SPRING SEMESTER 10.5 UNITS

| NURS 261 Nursing Care of the Family Theory | 2 |
| NURS 262 Nursing Care of the Family Lab/Clinical | 1 |
| NURS 276 Advanced Medical Surgical Nursing II Theory | 3 |
| NURS 277 Advanced Medical Surgical Nursing II Clinical | 2.5 |
| NURS 284 Role of the ADN Manager of Care | 2 |

**NOTE:** The sequence of some courses in the second year for fall and spring semesters may be altered.
CERTIFIED NURSING ASSISTANT

Certification Preparation
The college offers NURS 130 – Nursing Assistant, a six-unit class that prepares students to take the Nevada licensing exam for certification as a nursing assistant.

A Certified Nursing Assistant is an individual who, under the direction of a licensed nurse, typically provides basic nursing care for patients in long-term and acute care facilities. CNAs are educated to assist patients with activities of daily living such as bathing, feeding and dressing, and to help maintain a safe and protective care environment. As they have extensive daily contact with patients, CNAs also play a key role in communicating information/observations to the nurse.

EMERGENCY MEDICAL SERVICES

Certification Preparation
EMS 100 – Basic Life Support CPR, EMS 108 – EMT Training, and EMS 115 – Advanced EMT. EMS courses are offered in a sequential series to prepare individuals with the knowledge and skills to assess and care for patients in an emergency or in an out-of-hospital setting. Completion of selected courses is designed to prepare students to take the National Registry Examination for EMT-Basic and the appropriate Nevada EMS certification examination for Advanced EMT.

EMS 108 and EMS 115 are designed to meet the National Standard Curriculum published by the United States Department of Transportation, National Highway Traffic Safety Administration.

A background check may be required by some clinical sites prior to the start of clinical experiences. Information about how to meet this requirement will be explained by the course instructor. Drug screening may be required by health care organizations. See the Nursing & Allied Health website for the process and procedures to follow.

ADVANCED EMERGENCY MEDICAL TECHNICIAN

Certification Preparation EMS 115
For certified EMTs, WNC offers training for career advancement. Students will learn to incorporate knowledge of basic and advanced emergency medical care for critically ill and emergent patients to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies.

LABORATORY TECHNICIAN-PHLEBOTOMY

Certification Preparation
Phlebotomy classes (LTE 101 and LTE 102) are listed in the class schedule under the Laboratory Technician heading. These courses provide students with knowledge and skills necessary to perform the collection, identification and preservation of specimens as applied to venipuncture techniques.

Phlebotomists are trained to collect blood specimens by safely performing skin puncture or venipuncture procedures on patients of all ages. They are required to adhere to strict policies and safety precautions designed to provide patient protection and comfort, and to assure safe handling of specimens throughout the collection process.

NOTE: These courses have mandatory admission requirements. See the Nursing & Allied Health web pages for required immunizations, tests, major medical insurance and CPR certification. This information must be provided to the Nursing & Allied Health Office before permission to enroll in the course is granted. Information regarding how to submit information required to qualify for enrollment into these courses is available on the Nursing & Allied Health web pages. Students are eligible to register after all required information is received by the Nursing & Allied Health Office.
This program provides opportunities to practice and prepare for welding certification exams and allows students to explore other industrial skills that are used in a variety of occupations and businesses.

WELDING
Associate of Applied Science - Technology Degree

**Salary:** $23,000-$46,800/year (Nevada)

**Career Outlook:** Average growth.

**Good To Know:** Certification required for many jobs; most welding positions will be available in manufacturing facilities that produce or assemble metal parts or products.

**MISSION:** The mission of the Associate of Applied Science in Technology is to provide employment-related knowledge and skills necessary as a professional in a chosen field of study.

**STUDENT LEARNING OUTCOMES:** Students who complete an Associate of Applied Science in Technology are expected to:

- Know the subject matter appropriate to the emphasis of the degree. (WNC SLO 1,3,6,7)
- Communicate effectively and appropriately, in oral and written form. (WNC SLO 2)
- Locate, evaluate and properly utilize the tools and resources appropriate to a technology degree professional. (WNC SLO 1,6,7)
- Acquire skills and perform tasks necessary for employment or career enhancement. (WNC SLO 1,7)
- Developed an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Developed an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

**TOTAL REQUIREMENTS 60 UNITS**

**PROGRAM REQUIREMENTS 36 UNITS**

- **DFT 110** Blueprint Reading for Industry 3
- **WELD 211** Welding I 3
- **WELD 212** Welding I Practice 2
- **WELD 221** Welding II 3
- **WELD 222** Welding II Practice 2
- **WELD 231** Welding III 3
- **WELD 232** Welding III Practice 2
- **WELD 241** Welding IV 3
- **WELD 242** Welding IV Practice 2
- **WELD 250** Welding Certification Preparation 1–12

Choose 1-12 units from the following program electives:

- **AIT 101** Fundamentals of Applied Industrial Technology 4
- **ET 131** DC for Electronics 4
- **ELM 143** Wiring Techniques 2
- **MTT 105** Machine Shop I 3
- **WELD 151** Metallurgy I 3
- **WELD 224** Welding Projects 1–6
- **WELD 290** Internship in Welding 1–4
- **WELD** Related Welding Courses 1–3

**GENERAL EDUCATION REQUIREMENTS 24 UNITS**

- English/Communications Requirement: Recommended: BUS 107 Must include a writing course 6
- Human Relations: Recommended; BUS 110 3
- Humanities/Social Science Requirements 3
- Mathematics Requirement: Recommended: MATH 110 3
- Science Requirement 3
- U.S. and Nevada Constitution Requirements 3
- General Elective 3

A list of all courses filling general education requirements for the Associate of Applied Science Degree can be found on the Associate of Applied Science page.

**WELDING - Suggested Course Sequence**

*Note: Sequence based on enrollment that begins with the fall semester. Some courses may not be taught each semester.*

**FIRST SEMESTER**

- **Completed**
  - **WELD 211** 3
  - **WELD 212** 2
  - **English Course (Bus 107 Recommended)** 3
  - **Human Relations Course** 3
  - **Science Course** 3

**SECOND SEMESTER**

- **Completed**
  - **WELD 250** 4
  - **Program Elective** 1-3
  - **WELD 221** 3
  - **WELD 222** 2

**THIRD SEMESTER**

- **Completed**
  - **WELD 231** 3
  - **WELD 232** 2
  - **General Elective** 3
  - **Humanities/Social Science Course** 3
  - **Program Elective** 3-5

**FOURTH SEMESTER**

- **Completed**
  - **WELD 241** 3
  - **WELD 242** 2
  - **WELD 250** 4
  - **Program Elective** 3-5
  - **U.S./Nevada Constitution** 3

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
Provides students with opportunities to practice and prepare for welding certification examinations and the knowledge and skills for employment in welding and related careers.

TOTAL REQUIREMENTS  30 UNITS

PROGRAM REQUIREMENTS  18 UNITS
WELD 211  Welding I  3
WELD 212  Welding I Practice  2
WELD 221  Welding II  3
WELD 222  Welding II Practice  2
WELD 250  Welding Certification Preparation  6
Welding Elective  2

GENERAL EDUCATION REQUIREMENTS  12 UNITS
English/Communications Requirements: Must include a writing course  6
Human Relations Requirement: Recommended: BUS 110  3
Mathematics Requirement  3

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

WELDING - Suggested Course Sequence

FIRST SEMESTER  Completed  SECOND SEMESTER  Completed
WELD 211  3  WELD 221  3
WELD 212  2  WELD 222  2
Human Relations Course  3  WELD 250  6
GE English/Comp Course  3  GE English/Comp Course  3
Mathematics Course  3  WELD Elective  2

Students are introduced to the many welding certifications available by meeting the standards of the American Welding Society codes. This includes instruction on code certification required by the American Petroleum Institute and the American Society of Mechanical Engineers.
These courses occur in person over several weeks and result in certification for students who complete them successfully. Our programs include:

**HTML BOOTCAMP**
Learn to design, build and sell websites. Receive instruction from experienced web developers and leading minds in entrepreneurship.

**NEW BUSINESS OWNER QUICK-START SEMINAR**
Jump start your new business with instruction by experienced business owners. In just two weekends, you'll complete a business plan and have the support you need to follow your dreams.

**PERSONAL TRAINER CERTIFICATION**
Get nationally certified as a personal trainer. Students receive 30 hours of core knowledge instruction and practical labs. Hybrid online and in-person classes are available.

**DRIVER EDUCATION**
Get your driver's license! We offer 30 hours of DMV-approved classroom training.

**MOTORCYCLE RIDER COURSE**
Earn your M class endorsement with our Basic RiderCourse, and enhance your skills with our Advanced RiderCourse.

**QUICKBOOKS**
Learn to use this popular accounting software, from beginning to advanced functions.

**MASSAGE THERAPY CONTINUING EDUCATION UNITS (CEUs)**
Maintain your certification and improve your skills as a massage therapist with our AMTA-certified classes.

**AMERICAN RED CROSS BABYSITTING & CPR/AED/FIRST AID**
Receive or renew your certification in adult and pediatric first aid, CPR and AED. Hybrid online and in-person classes are available.

### PERSONAL ENRICHMENT CLASSES

Personal enrichment classes occur over a 1-4 session period of time and cover a specific skill or interest area. Classes are taught by community members with a passion for and experience in the area in which they are teaching. Available classes include:

**ART CLASSES**
Learn watercolor, ceramics, book arts, calligraphy and more!

**MINDFULNESS-BASED STRESS REDUCTION**
Approach life with more composure, understanding, energy and enthusiasm with this research-based approach to stress reduction and pain management.

**FITNESS CLASSES**
Available when it's convenient for you, our fitness classes are open to people of all ages and fitness levels. We're now proud to offer Zumba®!

**SAFETY AND FIRST AID**
Our American Red Cross courses offer certifications in adult and pediatric first aid/CPR/AED as well as babysitting.

**COMPUTER AND TECHNICAL SKILLS**
Use your computer with less frustration and more productivity. From basic to advanced, we offer classes in a variety of software programs, including the Microsoft Suite. We also offer a computer basics class.

**SPECIAL INTEREST**
If you want to learn it, we can teach you! Additional courses are available including everything from HAM Radio to Understanding Your Medicare Insurance Options.

NEW CLASSES ARE ADDED REGULARLY. CALL OR VISIT US ONLINE FOR OUR MOST CURRENT CLASS LISTINGS.

(775) 445-4241 - Carson City  
(775) 423-7565 - Fallon  
www.wnc.edu/continuing-education

*Continuing Education classes do not offer credits towards the completion of an associate or bachelor’s degree. Certifications and certifications of completion are designed to promote career advancement and personal growth.*
This class is designed to prepare students to pass the CDL Skills test. The Skills test is comprised of vehicle inspection, basic vehicle control and on-road test. The class will be 85% hands-on instruction and 15% classroom instruction. The classroom portion will focus on the concepts of the skills test including basic control and backing the truck/trailer. The classroom portion will also focus on the concepts of double clutch shifting. The hands-on portion will focus on operating the truck/trailer in a controlled environment and under close supervision of the instructor(s). The hands-on portion will also include intensive training in backing the truck/trailer in a controlled backing concourse.

The students will be tested on their knowledge via written test review, online test review and skills test (driving and backing) evaluations by the instructor(s).

The Specialty Crop Institute provides training for alternative farming methods and crops for Nevada’s high desert growing conditions. This innovative program combines classroom instruction and on-farm experiences; workshops are taught by the best of industry experts, producers and educators from across the nation. The goals of the Specialty Crop Institute are to expand and diversify Nevada agriculture.

Information: 775-423-7565, ext 2228 or email ann.louhela@wnc.edu

www.wnc.edu/sci/

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Adult Literacy & Language

Adult Literacy & Language offers workforce and college preparation options, as well as free literacy instruction at all levels for individuals seeking opportunities that will enable them to reach their life, work, civic, family, educational, and personal goals. English Language Learning (ELL) and High School Equivalency (HSE) preparation are available, free of charge, to adults who meet the eligibility requirements. Services are offered year-round and include classes, tutoring, and computer-based instruction for the high school equivalency exams (GED or HiSET), English language learning (literacy through Advanced), English Language Transition, Citizenship, Phonics/conversation, computer skills, career pathways, employability skills and transition to college programs. Services are available in Carson City, Dayton, Fallon, Fernley, and Gardnerville. Contact our office at 775-445-4452 or visit us online at wnc.edu.

ELIGIBILITY REQUIREMENTS
To participate, individuals must be at least 16 years old and not required to be enrolled in a high school. Adults without a high school diploma, whose native language is not English, and who require preparation for college are also eligible.

IMPROVE YOUR SKILLS
Free English Language Learning (ELL) & High School Equivalency (HSE) preparation

- Prepare for the GED or HSET exams
- Learn to speak, read and write English
- Prepare for the workforce
- Prepare for college-level classes

NV-ACE (NEVADA ACCELERATED CAREER EDUCATION)
The Adult Literacy & Language Program offers free classes that prepare students for their high school equivalency test (HiSET or GED) while completing industry training within the field of Construction Management.

Industry credentials are integrated into the curriculum providing individuals with the opportunity to earn industry specific credentials. Students will earn college credit, complete a certification from the Occupational Safety and Health Administration (OSHA) and earn certifications through the National Center for Construction Education and Research (NCCER).

COLLEGE PREPARATION AND CAREER PATHWAYS
The Adult Literacy & Language college preparation program provides free access and support services for students preparing for entry into college degree or certification programs. The program provides the opportunity for students who meet minimum eligibility requirements to enroll into dual-enrollment adult and college preparation courses.

Program staff and advisers offer assistance with selecting career goals, conducting job searches, writing resumes, career exploration and workplace readiness.

HIGH SCHOOL EQUIVALENCY AND WORKFORCE PREPARATION (HSE)
The HSE preparation program provides instruction in science, social studies, reading, math (algebra, geometry, trigonometry), English and writing. Each HSE course teaches the materials required for students to pass the HiSET or GED high school equivalency exams. Preparation is structured to move at a pace that accommodates a wide range of abilities and schedules. Classes are offered in the mornings and evenings. Options include classes, computer-based and online instruction, workshops, and tutoring.

Program staff and advisers offer assistance with selecting career goals, conducting job searches, writing resumes, career exploration and workplace readiness.

ENGLISH LANGUAGE LEARNING (ELL)
Free English classes for adult learners whose native language is not English. Beginning Literacy through Advanced level classes are offered in the morning and evening. Classes focus on reading, writing, speaking, listening, vocabulary, grammar, phonics and conversation. The ELL program prepares students to develop the language skills required to communicate effectively in the community, workplace, and in their daily lives. ELL classes also teach students to use English for entering college, job training and career advancement. All instruction is in English and students must be at least 16 years old.

HIGH SCHOOL EQUIVALENCY AND WORKPLACE READINESS TESTING (GED, HISET, ACT WORKKEYS)

HSE TESTING (GED AND HISET)
Nevada is one of several states that have adopted alternative assessments for testers to take and earn the Nevada Certificate of High School Equivalency (HSE). Since January 2014, Nevada accepts the GED exam (designed by Pearson Vue), the HiSET (designed by Educational Testing Services) and the TASC (designed by CTB/Data Recognition Corporation). The assessments cover the same content and allow test-takers to demonstrate proficiency of the academic skills expected by employers and postsecondary institutions. Passing any of the three tests will lead to the same Certificate of High School Equivalency issued by the State of Nevada. The HSE testing center at Western Nevada College offers the GED and the HiSET exams.

HSE testing for the HiSET and GED exams is available to individuals who are ready to take the official exam. HSE preparation is not required to take the official test. Individuals who wish to take preparation classes (designed to accommodate all skill levels) for the HiSET or GED should enroll into classes.

NATIONAL CAREER READINESS CERTIFICATE/ACT WORKKEYS
The ACT WorkKeys exam measures foundational skills required for success in the workplace and helps measure the workplace skills that can affect job performance. Assessments are web-based and are available in both English and Spanish.

Individuals who successfully complete the required WorkKeys assessments may earn the ACT WorkKeys National Career Readiness Certificate (NCRC) – a credential that verifies the skills to be found most essential across industries and occupations.

ACT WorkKeys Assessments:
- Applied Math – Required for the NCRC
- Graphic Literacy – Required for the NCRC
- Workplace Documents – Required for the NCRC
- Applied Technology
- Business Writing
- Workplace Observation
OUR VISION
WNC is an integral and innovative educational partner fostering equity and a life of learning in an inclusive environment for the evolving, diverse communities we serve.

OUR VALUES
WNC is student centered, inquiry driven and data informed as we nurture community connections and promote an environment of equity and inclusion.

OUR MISSION
WNC contributes to solutions for the 21st century by providing effective educational pathways for the students and communities of Nevada.