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.
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 eight weeks, or achieve a degree in two years.

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WWW.WNC.EDU • 2020-21 ACADEMIC PROGRAM GUIDE • 3
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.

**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.
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/

WNC offers a number of online degrees and programs for individuals seeking to advance their education while maintaining their personal commitments to work and/or family. Online courses offer students the opportunity to learn at times of the day when it is convenient for them. Attending college online requires students to be self-motivated and able to manage their time for the rigor of self-guided learning.

PREPARE FOR TRANSFER TO A UNIVERSITY
Associate of Arts
Associate of Science
Associate of Business
*The AS degree requires students to complete a science lab course on campus.

CERTIFICATES OF ACHIEVEMENT
Business
Bookkeeping
Criminal Justice
Graphic Design
Network Support Technician

ASSOCIATE OF APPLIED SCIENCE DEGREES
Accounting
General Business
Criminal Justice
Graphic Design
Management

BACHELOR OF APPLIED SCIENCE DEGREE
Organization and Project Management
*Completion of an AAS degree required for admission to the BAS degree program

Many other programs have online courses available. Students should work closely with a counselor to help build their online degree path.

WWW.WNC.EDU/ONLINE-PROGRAMS/
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.

PROGRAM REQUIREMENTS

GENERAL ELECTIVES

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.

ANY 200 LEVEL COURSES FROM ANY AREA

200 level courses used for this requirement may also be used to fulfill general education or general elective requirements.

GENERAL EDUCATION REQUIREMENTS

A MINIMUM OF 60 TOTAL UNITS CHOSEN FROM THE FOLLOWING:

ENGLISH/COMMUNICATIONS

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, 261, 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, 110
- 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: 102 (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: 101 and one of the following: HIST 102, HIST 217, PSC 100, PSC 208
- Political Science: 101, 103
Associate Degrees for University Transfer
ASSOCIATE OF ARTS • ASSOCIATE OF BUSINESS • ASSOCIATE OF SCIENCE

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

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.

High School Opportunities
COMPLETE CORE COLLEGE COURSES WHILE IN HIGH SCHOOL

JUMP START
The Jump Start program is a dual-enrollment opportunity for students attending Nevada high schools, offering real college courses on a real college schedule. Students enroll in college courses through Western Nevada College while simultaneously earning high school credits. 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. Learn more at www.wnc.edu/jump-start/

DUAL ENROLLMENT
Take college level courses and college prep courses taught by high school instructors for WNC credit.

$50 FAST TRACK CLASSES
Nevada high school students can take any WNC online class for $50 and earn WNC and high school credit.
**Associate of Arts A 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**

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6–8</td>
<td>English: 100 or 101, 102</td>
</tr>
</tbody>
</table>

**FINE ARTS**

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Art: 100, 101*, 135, 124, 131, 135, 211, 214, 231, 260, 261</td>
</tr>
<tr>
<td></td>
<td>English: 261</td>
</tr>
<tr>
<td></td>
<td>Humanities: 101</td>
</tr>
<tr>
<td></td>
<td>Music: 121, 124, 125, 176</td>
</tr>
<tr>
<td></td>
<td>Music: Ensemble: 101*, 131, 135</td>
</tr>
<tr>
<td></td>
<td>Theatre: 100, 105*, 180</td>
</tr>
</tbody>
</table>

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

**HUMANITIES**

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Core Humanities: 201, 202</td>
</tr>
<tr>
<td></td>
<td>English: 200, 223</td>
</tr>
<tr>
<td></td>
<td>History: 105, 106, 208, 209, 247</td>
</tr>
<tr>
<td></td>
<td>Philosophy: 101, 135, 200, 203, 204, 207, 210, 224, 245</td>
</tr>
</tbody>
</table>

**SCIENCE**

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Anthropology: 102, 110L</td>
</tr>
<tr>
<td></td>
<td>Astronomy: 109, 110, 120</td>
</tr>
<tr>
<td></td>
<td>Atmospheric Sciences: 117</td>
</tr>
<tr>
<td></td>
<td>Biology: 100, 113, 190, 191, 200</td>
</tr>
<tr>
<td></td>
<td>Chemistry: 100, 121, 122</td>
</tr>
<tr>
<td></td>
<td>Environmental Studies: 100, 101</td>
</tr>
<tr>
<td></td>
<td>Geography: 103, 104, 121</td>
</tr>
<tr>
<td></td>
<td>Geology: 100, 101, 102, 103, 105, 201</td>
</tr>
<tr>
<td></td>
<td>Nutrition: 121</td>
</tr>
<tr>
<td></td>
<td>Physics: 100, 151, 152, 180 &amp; 180L</td>
</tr>
</tbody>
</table>

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

**SOCIAL SCIENCES**

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Choose from the following: Anthropology: 101, 201, 202, 212, 215</td>
</tr>
<tr>
<td></td>
<td>Core Humanities: 203</td>
</tr>
<tr>
<td></td>
<td>Economics: 100, 102, 103</td>
</tr>
<tr>
<td></td>
<td>Geography: 106, 200</td>
</tr>
<tr>
<td></td>
<td>History: 101, 102, 111, 217</td>
</tr>
<tr>
<td></td>
<td>Political Science: 103, 208, 231</td>
</tr>
<tr>
<td></td>
<td>Psychology: 101, 102, 233, 234, 240, 257, 261</td>
</tr>
<tr>
<td></td>
<td>Sociology: 101</td>
</tr>
</tbody>
</table>

**U.S. & NEVADA CONSTITUTION**

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3–6</td>
<td>Must meet both requirements. Choose from: Core Humanities: 203</td>
</tr>
<tr>
<td></td>
<td>History: 111</td>
</tr>
<tr>
<td></td>
<td>History: 101 and one of the following: HIST 102, HIST 217 PSC 100, PSC 208</td>
</tr>
<tr>
<td></td>
<td>Political Science: 101, 103</td>
</tr>
</tbody>
</table>

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**YEAR ONE SUGGESTED COURSE SEQUENCE**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>ENG 100 or 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Educational Psychology 150</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>STAT 152, MATH 120</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Second</strong></td>
<td><strong>Completed</strong></td>
</tr>
<tr>
<td></td>
<td>ENG 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fine Arts Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Third &amp; Fourth</td>
<td>Take courses that meet requirements for the major at intended transfer school.</td>
<td></td>
</tr>
</tbody>
</table>

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**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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications</td>
<td>6–8</td>
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<tr>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>U.S. &amp; Nevada Constitution</td>
<td>3–6</td>
</tr>
</tbody>
</table>

---

**FIRST SEMESTER**

- Completed
  - ENG 100 or 101 | 3 |
  - Social Science | 3 |
  - Educational Psychology 150 | 3 |
  - STAT 152, MATH 120 | 3 |
  - Science Requirement | 3 |

---

**SECOND SEMESTER**

- Completed
  - ENG 102 | 3 |
  - U.S./Nevada Constitution | 3 |
  - Fine Arts Course | 3 |
  - Humanities Requirement | 3 |
  - Science Requirement | 3 |

---

**THIRD & FOURTH SEMESTER**

Take courses that meet requirements for the major at intended transfer school.
Associate of Arts  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 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 bachelor’s 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.
Associate of Business A TRANSFER DEGREE

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.

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: 101*, 124, 135, 141, 160, 211, 214, 231, 260, 261
English: 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
History: 105, 106, 208, 209, 247
Philosophy: 101, 135, 200, 203, 204, 207, 210, 224, 245
UNR transfer students, choose at least one of the following courses:
Core Humanities 201, 202
History 105, 106
Philosophy 200, 207, 245

MATHEMATICS

See Program Requirements

SUGGESTED COURSE SEQUENCE

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
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<tr>
<td>Fine Arts Requirement</td>
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<tr>
<td>General Elective</td>
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<thead>
<tr>
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<tbody>
<tr>
<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>
<td>3</td>
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<tr>
<td>U.S./Nev. Constitution</td>
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<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
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<tbody>
<tr>
<td>ACC 201</td>
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<tr>
<td>ECON 261</td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Course</td>
<td>3</td>
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<td>Science Course</td>
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<thead>
<tr>
<th>FOURTH SEMESTER</th>
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<tbody>
<tr>
<td>ACC 202</td>
<td>3</td>
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<tr>
<td>ECON 262</td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td>6</td>
</tr>
<tr>
<td>MKT 210</td>
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</tbody>
</table>

EARN THIS DEGREE ONLINE
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.

GENERAL BUSINESS
For students who don’t desire to specialize in one area of business, this career pathway gives them a diverse background in many areas of a business, including accounting, sales, management, finance, marketing and business law, to maximize their skills and potential to rise to a top spot in a large company.

INTERNATIONAL BUSINESS
Gain a better understanding of global markets and various business regions of the world. With the world’s economy increasing global, this well-paid field provides job possibilities such as foreign service officer, interpreter, trade coordinator, accounting manager, economist, business development director, sales manager and more.

INFORMATION SYSTEMS
Become a professional in high demand with a large salary by learning how to strategically and effectively apply technology to a business. These highly coveted professionals are invaluable to employers across a variety of business sectors and are qualified to serve positions including application analyst, cybersecurity analyst, data analyst, data scientist, database administrator, systems analyst, information systems manager, IT consultant and more.
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.

YEAR ONE

SUGGESTED COURSE SEQUENCE

FIRST SEMESTER

ENG 100 or 101 3
HIST 101 3
EPY 150 3
MATH 181 4

SECOND SEMESTER

ENG 102 3
U.S./Nevada Constitution 3
MATH 182 or STAT 152 3-4
Science (Group A) 4-6

THIRD & FOURTH SEMESTER

Take courses that meet requirements for the major at intended transfer school.

ENGLISH/COMMUNICATIONS

6-8 UNITS

- English: 100 or 101, 102

FINE ARTS - 3 UNITS

Art: 100, 101*, 124, 135, 141, 160, 211, 214, 231, 260, 261

English: 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, 245

UNR transfer students, choose at least one of the following courses:

- Core Humanities 201, 202

- History 105, 106

- Philosophy 200, 207, 245

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)

GENERAL EDUCATION REQUIREMENTS

A MINIMUM OF 18-23 UNITS CHOSEN FROM THE FOLLOWING:
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 their 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.
Programs and Career Pathways
LEARN TECHNICAL SKILLS THAT LEAD TO JOBS IN THE NEW NEVADA

<table>
<thead>
<tr>
<th>CERTIFICATES OF ACHIEVEMENT</th>
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<tbody>
<tr>
<td>Expand your skills with a one-year certificate.</td>
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</table>

<table>
<thead>
<tr>
<th>ASSOCIATE OF APPLIED SCIENCE DEGREES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WNC offers two-year career preparation programs in many areas. Students learn technical skills that lead to jobs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BACHELOR OF APPLIED SCIENCE DEGREES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WNC offers baccalaureate degrees in organization and project management (online) and construction management.</td>
</tr>
</tbody>
</table>

SKILLS CERTIFICATES
Be ready to enter the workplace in as little as eight weeks. WNC offers more than 20 industry-recognized credentials for skill development and career advancement.

- Accounting
- Criminal Justice
- General Business
- Management
- Automated Systems
- Cyber Security
- General Industrial Technology
- Mechatronics
- Automotive Mechanics
- Deaf Studies
- Graphic Design
- Nursing
- Computer Information Technology
- Education
- Health Science
- Organization and Project Management
- Construction Management
- Emergency Medical Services/Paramedicine
- Machine Tool Technology
- Welding
- Energy Technology
- Machine Tool Technology
# Bachelor of Applied Science: A Career Degree

WNC offers two Bachelor Degrees for students interested in advanced education and leadership development.

## General Education Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English/Communications Requirements</strong></td>
<td>9</td>
</tr>
<tr>
<td>English 100 or 101, 102</td>
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<tr>
<td>Choose from:</td>
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<tr>
<td>Business: 107</td>
<td></td>
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<tr>
<td>or Communication: 101, 102, 113</td>
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<tr>
<td><strong>Fine Arts/Humanities Requirements</strong></td>
<td>3</td>
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<tr>
<td>Art: 100, 101, 124, 135, 141, 160, 175</td>
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<tr>
<td>211, 214, 224, 231, 260, 261</td>
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</tr>
<tr>
<td>Humanities: 101</td>
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<tr>
<td>Core Humanities: 201, 202</td>
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<tr>
<td>Theatre: 100, 105, 180</td>
<td></td>
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<tr>
<td>English: 200, 223, 261</td>
<td></td>
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<tr>
<td>Music, Ensemble: 101, 131, 135</td>
<td></td>
</tr>
<tr>
<td>Music: 111, 121, 124, 125, 131, 134, 135, 176</td>
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<tr>
<td>History: 105, 106, 207, 208, 209, 247</td>
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<tr>
<td>Philosophy: 101, 135, 200, 203, 204, 207, 210, 224, 245</td>
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<td><strong>Mathematics Requirements: Construction</strong></td>
<td>3</td>
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<tr>
<td>Mathematics: 120, 124, 126, 127, 128, 176, 181, 182</td>
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<tr>
<td>Statistics: 152</td>
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<tr>
<td><strong>Science Requirements</strong></td>
<td>6</td>
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<tr>
<td>Anthropology: 102, 110L</td>
<td></td>
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<tr>
<td>Astronomy: 109, 110, 120</td>
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<tr>
<td>Atmospheric Sciences: 117</td>
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<tr>
<td>Biology: 100, 113, 190, 191, 200</td>
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<tr>
<td>Chemistry: 100, 121, 122</td>
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<tr>
<td>Environmental Studies: 100, 101</td>
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<tr>
<td>Geology: 100, 101, 103, 105, 201</td>
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<tr>
<td>Geography: 103, 121</td>
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<tr>
<td>Nutrition: 121</td>
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<tr>
<td>Physics: 100, 151, 152, 180, 180L</td>
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<tr>
<td><strong>Social Sciences Requirement</strong></td>
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<tr>
<td>Anthropology: 101, 201, 202, 210, 212, 215</td>
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<tr>
<td>Core Humanities: 203</td>
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<tr>
<td>Criminal Justice: 101, 102, 104, 220, 230, 270</td>
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</tr>
<tr>
<td>Geography: 106, 200</td>
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<tr>
<td>History: 101, 102, 111, 217, 295</td>
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<tr>
<td>Political Science: 103, 105, 108, 208, 231, 295, 299</td>
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<tr>
<td>Psychology (except for PSY 210)</td>
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<td>Sociology (except for SOC 210)</td>
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<tr>
<td><strong>U.S. and Nevada Constitution Requirements</strong></td>
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<td>Choose from:</td>
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<td>Core Humanities: 203</td>
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<tr>
<td>History: 111</td>
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<td>History: 101 and one of the following:</td>
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<tr>
<td>HIST 102, HIST 217, PSC 100, PSC 208</td>
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<tr>
<td>Political Science: 101, 103</td>
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</tr>
<tr>
<td>History &amp; Political Science Combination (History 101 and Political Science 208)</td>
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</tbody>
</table>

## General Electives

VARIES BY PROGRAM
Organization leadership applies to a variety of organization types including for- and not-for-profit, small business to corporations, etc. This degree will provide students with the leadership scope and working knowledge of project management development and implementation to fill the U.S. and Northern Nevada gap while contributing to the economic development of the region.

This is an online degree, enabling individuals to advance their education while working in their field of interest.

PROGRAM ENTRANCE REQUIREMENTS
An Associate Degree from a regionally accredited institution with an overall GPA of 2.0.

- Students transferring from another state are required to take U.S. and Nevada Constitution classes
- Bachelor degree requirements may include NSHE general education requirements not included in all AAS degrees
- English 102 (3 credits)
- Math (3 credits)
- Natural Science (6 credits to include at least one laboratory experience)
- Social Sciences or Humanities/Fine Arts (9 credits)

See page 15 for a list of courses to fulfill these requirements.

EARN THIS DEGREE ONLINE

Bachelor of Applied Science - Organization and Project Management
Suggested Course Sequence

FIRST SEMESTER
(Fall)
Completed
MGT 320 3
MGT 485 3
MGT 310 3
COM 215 3

SECOND SEMESTER
(Spring)
Completed
MKT 210 3
MGT 391 3
CIT 263 3
MGT 462 3

SUMMER SESSION
MGT 487 3
MGT 480 3

THIRD SEMESTER
(Fall)
Completed
FIN 310 3
IS 301 3
CIT 363 3
MGT 496 3

WINTER SESSION
(January)
Completed
MGT 323 3

FOURTH SEMESTER
(Spring)
Completed
MGT 412 3
MGT 371 3
MGT 496 3
Elective 3

GENERAL ELECTIVE (upper or lower division) 3
Bachelor of Applied Science
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 degree 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 degree 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.

OR: Have an associate degree in Construction Management from a regionally accredited institution.

2. Meet with a WNC counselor.
3. Submit application to Admission & Records.

REQUIREMENTS

BUSINESS AND MANAGEMENT CORE REQUIREMENTS 18 UNITS

Bus 101  Introduction to Business  3
Acc 201  Financial Accounting  3

Choose 3 units from the following Economics courses:

Econ 100  Introduction to Economics  3
Econ 102  Principles of Microeconomics  3
Econ 103  Principles of Macroeconomics  3

Choose 3 units from the following Management courses:

Mgt 323  Organizational Behavior & Interpersonal Behavior  3
Mgt 367  Human Resource Management  3

Choose 6 units from the following Management courses:

Com 412  Intercultural Communication  3
Mgt 462  Changing Environments  3
Mgt 469  Managing Cultural Diversity  3

PROGRAM REQUIREMENTS 66 UNITS

Cadd 100  Introduction to Computer Aided Drafting  3
Cem 100  Fundamentals of Construction Management  3
Cem 330  Soils and Foundations for Construction  3
Cem 350  Facility Systems Design and Construction I  3
Cem 432  Temporary Construction Structures  3
Cem 451  Construction Estimating  3
Cem 452  Construction Cost Control  3
Cem 453  Construction Scheduling  3
Cem 454  Heavy Construction Methods and Equipment  3
Cem 455  Construction Management Practice  3
Cem 456  Capstone Management Construction  3
Cem 485  Construction Law and Contracts  3
Cons 108  Construction Materials and Methods I  4
Cons 109  Construction Materials and Methods II  4
Cons 111  Commercial Building Codes  3
Cons 118  Construction Contract Documents  3
Cons 120  Blue Print Reading and Specifications  2
Cons 121  Principles of Construction Estimating  3
Cons 205  Construction Site Safety  2
Cons 281  Construction Planning Scheduling And Control  3
Cons 451  Advanced Internship in Construction  3
Sur 119  Construction Surveying  3

GENERAL EDUCATION REQUIREMENTS 36 UNITS

English/Communications Requirement  9
Fine Arts/Humanities Requirement  3
Mathematics: 126 or higher  3
Science Requirement  6
Social Sciences Requirement  3
U.S. and Nevada Constitution Requirement  3
General Electives  9
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.

SKILLS CERTIFICATE AND CERTIFICATION 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.

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/
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

36-39 UNITS

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

21-24 UNITS

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, 105, 180

Social Sciences:

Anthropology: 101, 201, 202, 210, 212, 215
Core Humanities: 203
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)
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)

* Course may not meet the fine arts requirement at all universities. See a counselor.
The Automation and Industrial Technology programs of study focus on building a solid base of fundamental knowledge and skills to prepare for careers in modern manufacturing, mining, aerospace and high tech health care environments.

Class and lab work explores the industrial environment, culture, processes and values. 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)
- Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Develop an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

**CERTIFICATION PREPARATION - INDUSTRIAL ELECTRONICS TECHNOLOGY**

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)

**CERTIFICATION PREPARATION - MANUFACTURING TECHNICIAN**

The Manufacturing Technician program is the entry point for Advanced Manufacturing, Robotics and Mechatronics studies as it prepares students to earn the Manufacturing Technology Level 1 (MT1) credential. The MT1 documents that an individual is prepared for above entry-level industrial technology positions with fundamental knowledge and skills in general manufacturing concepts and technologies. 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.

**CERTIFICATION PREPARATION - MECHATRONICS FOUNDATION (LEVEL I)**

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, mining and aerospace. This advanced program of study builds on the MT1 credential or field experience to prepare students to earn the Siemens Certified Mechatronic Systems Assistant Level 1 certification. Instructor permission is required.

**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 complex systems. Level 2 coursework incorporates programming of modules, implementing and modifying processes and tools, and troubleshooting issues in mechatronic systems. WNC holds the distinction of being a Siemens Industrial Training (SITRAIN) partner school.

**PROGRAM REQUIREMENTS**

**CERTIFICATION PREPARATION - NATIONAL ASSOCIATION OF MANUFACTURERS**

for entry-level workers and experienced technicians alike.

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
CERTIFICATE OF ACHIEVEMENT - INDUSTRIAL ELECTRONICS TECHNOLOGY

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. Students will learn about and use equipment, tools and processes 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
English/Communications Requirement:
Recommended: BUS 107, and BUS 108, ENG 101 or ENG 107 6
Must include a writing course
Human Relations Requirement: Recommended: BUS 110 3
Mathematics Requirement: Recommended: MATH 110 3

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

ASSOCIATE OF APPLIED SCIENCE TECHNOLOGY DEGREE - AUTOMATED SYSTEMS

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. This degree provides students with technical theory and hands-on practice to install, operate and maintain automated systems for a variety of industries.

TOTAL REQUIREMENTS  60 UNITS

PROGRAM REQUIREMENTS  36 UNITS
AIT 101  Fundamentals of Applied Industrial Technology 4
AIT 121  Electrical Control Systems 1
AIT 155  Applied Hands-on AIT Labs 3
ET 104  Fabrication/Soldering Techniques 3
ET 131  DC for Electronics 4
ET 132  AC for Electronics 4
MT 115  Applied Programmable Logic Controllers 3

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
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.

INDUSTRIAL ELECTRONICS TECHNOLOGY - Suggested Course Sequence

FIRST SEMESTER  Completed  SECOND SEMESTER  Completed
AIT 101  4  ET 104  4
ET 131  3  MT 115  3
Program Elective  2  Program Elective  2
English Course  3  English Course  3
Human Relations Course  3  Mathematics Course  3

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

AUTOMATED SYSTEMS - 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  THIRD SEMESTER  Completed
AIT 101  4  AIT 121  1
AIT 155  3  English Course  3
English Course: BUS 107  3  Program Electives  7-9
ET 131  4  U.S./Nevada Constitution  3
ET 132  4  U.S./Nevada Constitution  3
MT 115  3  Program Electives  5-7
MT 115  3  Science Course  3
MATH 110  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.
AUTOMATION AND INDUSTRIAL TECHNOLOGY

General Industrial Technology

This certificate and degree develops fundamental skills and knowledge in electrical and mechanical systems, and basic fabrication. Hands-on practice and theoretical knowledge will prepare individuals for a variety of electrical/mechanical technician positions or technical support positions in the industrial, manufacturing, technology or commercial environments.

<table>
<thead>
<tr>
<th>CERTIFICATE OF ACHIEVEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL REQUIREMENTS</td>
</tr>
<tr>
<td>SUBJECT REQUIREMENTS</td>
</tr>
<tr>
<td>AIT 101 Fundamentals of Applied Industrial Technology</td>
</tr>
<tr>
<td>Any MTT courses</td>
</tr>
<tr>
<td>Any WELD courses</td>
</tr>
</tbody>
</table>

Choose at least 4 units from the following:
- AIT, ELM, ET, ENRG, IT, MTT, MT, WELD

GENERAL EDUCATION REQUIREMENTS | 12 UNITS
- English/Communications Requirement: Recommended: BUS 107, and BUS 108, ENG 101 or ENG 107
  - Must include a writing course
- Human Relations Requirement: Recommended: BUS 110
- Mathematics Requirement: Recommended: MATH 110

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>FIRST SEMESTER</th>
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<tbody>
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<td>Welding Course</td>
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<tr>
<td>English Course</td>
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<td>Human Relations Course</td>
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<table>
<thead>
<tr>
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<td>Machine Tool Course</td>
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<td>Welding Course</td>
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<td>Program Elective</td>
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<td>English Course</td>
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<td>Mathematics Course</td>
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<thead>
<tr>
<th>ASSOCIATE OF APPLIED SCIENCE - TECHNOLOGY DEGREE</th>
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<tbody>
<tr>
<td>TOTAL REQUIREMENTS</td>
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<tr>
<td>PROGRAM REQUIREMENTS</td>
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<tr>
<td>AIT 101 Fundamentals of Applied Industrial Technology</td>
</tr>
<tr>
<td>AIT 155 Applied Hands-on AIT Labs</td>
</tr>
<tr>
<td>DFT 110 Blueprint Reading for Industry</td>
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<tr>
<td>Any MTT courses</td>
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<tr>
<td>Any WELD courses</td>
</tr>
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</table>

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
- Human Relations: Recommended: BUS 110
- Humanities/Social Science Requirements
- Mathematics Requirement: Recommended: MATH 110
- Science Requirement
- U.S. and Nevada Constitution Requirement
- General Elective

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.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>AIT 101</td>
<td>4</td>
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<td>AIT 155</td>
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<td>English Course</td>
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<td>MTT 110</td>
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<table>
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<tr>
<td>English Course</td>
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<td>MTT 110</td>
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<td>Program Elective</td>
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<td>Science Elective</td>
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<thead>
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<th>THIRD SEMESTER</th>
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<tr>
<td>Human Relations: BUS 110</td>
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<td>Humanities/Social Science</td>
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<td>General Elective</td>
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<td>Program Electives</td>
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<tr>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
<tr>
<td>WELD 221</td>
<td>2</td>
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</table>
Mechatronics is the high-tech field combining electrical, mechanical, fluid power and control systems in industrial environments. These programs ensure 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 an interactive approach to automated systems, including problem-solving, research, safety, documentation and effective teamwork.

**ASSOCIATE OF APPLIED SCIENCE - TECHNOLOGY DEGREE**

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.

**TOTAL REQUIREMENTS** 60 UNITS

**PROGRAM REQUIREMENTS** 36 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

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
  - Must include a writing course 6
- **Human Relations Requirement:**
  - Recommended: BUS 110 Human Relations for Employment 3
- **Mathematics Requirement:**
  - Recommended: MATH 110 Shop Mathematics 3
- **Humanities/Social Science Requirement:**
  - U.S. and Nevada Constitution 3
- **Science Requirement:**
  - General Elective 3

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

**CERTIFICATE OF ACHIEVEMENT**

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

- **AIT 101** Fundamentals of Applied Industrial Technology 4
- **AIT 102** Measurement Tools and Methods 2
- **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

**GENERAL EDUCATION REQUIREMENTS** 12 UNITS

- **English/Communications Requirement:**
  - Recommended: BUS 107 Business Speech and
  - ENG 107 Technical Writing or ENG 101 Composition I
  - Must include a writing course 6
- **Human Relations Requirement:**
  - Recommended: BUS 110 Human Relations for Employment 3
- **Mathematics Requirement:**
  - Recommended: MATH 110 Shop Mathematics 3

**MECHATRONICS TECHNOLOGY**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
<th>Second Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
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<td>AIT 250</td>
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<td>AIT 102</td>
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<td>AIT 251</td>
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<tr>
<td>English Course</td>
<td>2</td>
<td>AIT 252</td>
<td>2</td>
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<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>

**MECHATRONICS**

**Suggested Course Sequence**

**First Semester**

- **AIT 101** Fundamentals of Applied Industrial Technology 4
- **AIT 102** Measurement Tools and Methods 3
- **English Course** 2
- **Human Relations Course** 3
- **Mathematics** 3

**Second Semester**

- **AIT 250** Mechatronics: Electrical Components 4
- **AIT 251** Mechatronics: Mechanical Components 3
- **AIT 252** Mechatronics: Pneumatic and Hydraulic 3
- **AIT 253** Mechatronics: Programmable Logic Controllers 3

**Third Semester**

- **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

**Fourth Semester**

- **AIT 276** Mechatronics 2: Manufacturing Processes 3

**English Course**

- (BUS 107 or ENG 107 Rec.) 6
- **Math Course** 3
- **Program Elective** 2
- **Science Course** 3

**U.S./Nevada Constitution** 3

**General Elective** 3

**U.S./Nevada Constitution** 3
AUTOMOTIVE TECHNOLOGY
Collision Repair/Automotive Service Excellence

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)
• Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
• Develop an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

CERTIFICATION PREPARATION - AUTOMOTIVE SERVICE EXCELLENCE

Prepares students for the National Automotive Service Excellence Exams.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>AUTO 101</td>
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<tr>
<td>AUTO 115</td>
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<tr>
<td>AUTO 210</td>
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<tr>
<td>AUTO 101</td>
<td>3</td>
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<tr>
<td>AUTO 115</td>
<td>4</td>
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<tr>
<td>AUTO 130</td>
<td>3</td>
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<tr>
<td>AUTO 160</td>
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<tr>
<td>AUTO 101</td>
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<tr>
<td>AUTO 115</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 227</td>
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<td>AUTO 101</td>
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<tr>
<td>AUTO 115</td>
<td>4</td>
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<tr>
<td>AUTO 210</td>
<td>3</td>
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<td>AUTO 101</td>
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<td>AUTO 115</td>
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<td>AUTO 115</td>
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<td>AUTO 115</td>
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<tr>
<td>AUTO 225</td>
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</tbody>
</table>

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
AUTOMOTIVE TECHNOLOGY
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 130 Automotive Brakes 4
AUTO 145 Steering & Suspension 4
AUTO 160 Auto Air Conditioning 3
AUTO 210 Automatic Transmissions and Transaxles I 3
AUTO 225 Engine Performance I/Fuel & Ignition 4
AUTO 227 Engine Performance II/Emission Control 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.

ASSOCIATE OF APPLIED SCIENCE - TECHNOLOGY DEGREE

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS
AUTO 101 Introduction to General Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 117 Advanced Auto Electronics 4
AUTO 130 Engine Reconditioning 3
AUTO 145 Automotive Brakes 4
AUTO 155 Steering & Suspension 4
AUTO 160 Auto Air Conditioning 3
AUTO 210 Automatic Transmissions and Transaxles I 3
AUTO 225 Engine Performance I/Fuel & Ignition 4
AUTO 227 Engine Performance II/Emission Control 4

GENERAL EDUCATION REQUIREMENTS 24 UNITS
English/Communications Requirement: Recommended: BUS 107 & 108; Must include a writing course 6
Human Relations Requirement: Recommended: BUS 110 3
Humanities/Social Science Requirements 3
Mathematics Requirement: Recommended: MATH 110 3
Science Requirement 6
U.S. and Nevada Constitution Requirement 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.

AUTOMOTIVE - 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  THIRD SEMESTER  Completed
AUTO 101 3  AUTO 155 4
AUTO 115 4  AUTO 160 3
AUTO 130 3  AUTO 227 4
BUS 107 3  Science Course 3
Mathematics Course 3

SECOND SEMESTER  Completed  FOURTH SEMESTER  Completed
AUTO 117 4  AUTO 210 3
AUTO 145 4  BUS 108 3
AUTO 225 4  BUS 110 or Human Relations 3
Humanities/Social Science Course 3
U.S./Nevada Constitutions 3

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).
Prepare for career entry or advancement in accounting, business, management and marketing. Students develop knowledge, skills and abilities to succeed in today’s dynamic business environment. WNC offers Associate of Applied Science degrees for direct entry into the business world or an Associate of Business degree that transfers to four-year institutions.

**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.

**CERTIFICATE OF ACHIEVEMENT - BUSINESS**

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

**TOTAL REQUIREMENTS**

**PROGRAM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>BUS 101</td>
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<tr>
<td>BUS 107 or ENG 101</td>
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<tr>
<td>IS 101 or IS 201</td>
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<tr>
<td>Business Elective</td>
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**BUSINESS ELECTIVES**

Any Accounting, Business, Economics, Entrepreneurship, Finance, Management, Marketing or Real Estate courses

**GENERAL EDUCATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>Language</th>
<th>Mathematics</th>
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<tr>
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**REQUIRED COURSES**

- ACC 135 or ACC 201
- BUS 101
- BUS 107 or ENG 101
- IS 101 or IS 201
- Business Elective

**PROGRAM REQUIREMENTS**

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUS 109 or MATH 120</td>
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<tr>
<td>MGT 201 Principles of Management</td>
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**GENERAL EDUCATION REQUIREMENTS**

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<tr>
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<tr>
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**COMMUNICATIONS REQUIREMENTS**

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<tr>
<td>BUS 109 or MATH 120</td>
<td>3</td>
</tr>
<tr>
<td>IS 101 or IS 201</td>
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</tbody>
</table>

**BKR 109 - Introduction to QuickBooks**

Earn the QuickBooks Certification after completing the course.

**Bookkeeping Elective**

- BUS 107 or ENG/COMM
- BUS 109 or MATH 120
- IS 101 or IS 201
- BUS 101
- BUS 109 or MATH 120
- IS 101 or IS 201

**BOOKKEEPING - Suggested Course Sequence**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>ACC 135 or ACC 201</td>
<td>BUS 108 or ENG 102</td>
</tr>
<tr>
<td>BUS 101</td>
<td>BUS 109 or MATH 120</td>
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<td>BUS 107 or ENG 101</td>
<td>MGT 201</td>
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<tr>
<td>IS 101 or IS 201</td>
<td>KMT 210</td>
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<tr>
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**CERTIFICATE PREPARATION - REAL ESTATE**

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RE 101</td>
<td>4</td>
</tr>
<tr>
<td>RE 103</td>
<td>4</td>
</tr>
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</table>

**CERTIFICATE PREPARATION - BOOKKEEPING**

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.

**CERTIFICATE OF ACHIEVEMENT - BOOKKEEPING**

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 degree in Business-Accounting.

**TOTAL REQUIREMENTS**

**PROGRAM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
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<td>ACC 201</td>
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<tr>
<td>BUS 101</td>
<td>3</td>
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<tr>
<td>BUS 107 or ENG Systems</td>
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<tr>
<td>MGT 201 Principles of Management</td>
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**GENERAL EDUCATION REQUIREMENTS**

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<th>Course</th>
<th>Units</th>
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**ENGLISH/COMMUNICATIONS REQUIREMENTS**

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<td>BUS 109 or MATH 120</td>
<td>3</td>
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<tr>
<td>IS 101 or IS 201</td>
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**Certiﬁcation**

- ACC 290 Certified Bookkeeper Course

**BOOKKEEPING - Suggested Course Sequence**

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<thead>
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<th>SECOND SEMESTER</th>
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<tr>
<td>ACC 135</td>
<td>ACC 201</td>
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<td>BUS 101</td>
<td>BUS 108 or ENG/COMM</td>
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<td>BUS 107 or ENG/COMM</td>
<td>MGT 201</td>
</tr>
<tr>
<td>BUS 109 or MATH 120</td>
<td>Bookkeeping Elective</td>
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**SEQUENCES BASED ON ENROLLMENT**

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

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

## ASSOCIATE OF APPLIED SCIENCE DEGREE - ACCOUNTING

<table>
<thead>
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<td>ACC 202</td>
<td>Managerial Accounting</td>
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<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>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>or IS 201</td>
<td>Computer Applications</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Principles of Management</td>
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<tr>
<td>MKT 210</td>
<td>Marketing Principles</td>
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<tr>
<td>ACC 203</td>
<td>Intermediate Accounting</td>
</tr>
<tr>
<td>ACC 220</td>
<td>Microcomputer Accounting Systems</td>
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<tr>
<td>or ACC 223</td>
<td>Introduction to QuickBooks</td>
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<td>ACC 105</td>
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<tr>
<td>ACC 180</td>
<td>Payroll &amp; Employee Benefit Accounting</td>
</tr>
<tr>
<td>ACC 204</td>
<td>Intermediate Accounting II</td>
</tr>
<tr>
<td>ACC 220</td>
<td>Microcomputer Accounting Systems</td>
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<tr>
<td>ACC 223</td>
<td>Introduction to QuickBooks</td>
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<tr>
<td>ACC 261</td>
<td>Governmental Accounting</td>
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<tr>
<td>ACC 290</td>
<td>Certified Bookkeeper Course</td>
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<tr>
<td>ACC 295</td>
<td>Work Experience I</td>
</tr>
<tr>
<td>COT 262</td>
<td>Intermediate Spreadsheets Concepts</td>
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<tr>
<td>ECON 261*</td>
<td>Principles of Statistics I</td>
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<tr>
<td>ECON 262*</td>
<td>Principles of Statistics II</td>
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<th>GENERAL EDUCATION REQUIREMENTS</th>
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<td>Mathematics Requirement</td>
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<td>Science Requirement</td>
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<td>U.S. and Nevada Constitution Requirement</td>
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*A 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 degree can be found on the Associate of Applied Science page.
ASSOCIATE OF APPLIED SCIENCE DEGREE -
GENERAL BUSINESS

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<td>BUS 299 Business Capstone</td>
<td>3</td>
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<tr>
<td>ECON 102 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IS 101 Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or IS 201 Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201 Principles of Management</td>
<td>3</td>
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<td>MKT 210 Marketing Principles</td>
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<tbody>
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<tr>
<td>&amp; ACC 201 Financial Accounting</td>
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<tr>
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<thead>
<tr>
<th>BUSINESS ELECTIVES - IN THREE DIFFERENT AREAS</th>
<th>15 UNITS</th>
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<tbody>
<tr>
<td>Any Accounting, Business, Economics, Entrepreneurship, Finance, Management, Marketing or Real Estate courses</td>
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<table>
<thead>
<tr>
<th>GENERAL EDUCATION REQUIREMENTS</th>
<th>15 UNITS</th>
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<tr>
<td>English/Communications Requirement: Recommended: BUS 107, BUS 108, or ENG 101*, ENG 102*, must include a writing course</td>
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<td>Science Requirement</td>
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<td>U.S. and Nevada Constitution Requirement</td>
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*Recommended for students who plan to transfer and enroll in a bachelor’s degree program.

BUSINESS - ON CAMPUS
Suggested Course Sequence

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<tr>
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<tbody>
<tr>
<td>ACC 135 or ACC 201</td>
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<tr>
<td>BUS 101</td>
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<tr>
<td>BUS 107 or EN 101</td>
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<td>IS 101 or IS 201</td>
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<td>BUS 108 or EN 102</td>
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<td>BUS 109 or MATH 120</td>
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<td>ECON 103</td>
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<td>MGT 201</td>
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<tbody>
<tr>
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<td>3</td>
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<tr>
<td>U.S./Nevada Constitution</td>
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<td>Business Elective</td>
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<td>Science Course</td>
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<tbody>
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BUSINESS - ONLINE
Suggested Course Sequence

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<td>IS 101 or IS 201</td>
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<tr>
<td>BUS 107 or EN 102</td>
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<tbody>
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<td>3</td>
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<tr>
<td>U.S./Nevada Constitution</td>
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<td>Science Course</td>
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<td>BUS 273</td>
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<td>BUS 299</td>
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note: Sequences are based on enrollment that begins with the fall semester. Some courses may not be taught each semester.

ASSOCIATE OF APPLIED SCIENCE DEGREE -
MANAGEMENT

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<td>ACC 202 Managerial Accounting</td>
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<tr>
<td>IS 101 Introduction to Information Systems</td>
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<td>or IS 201 Computer Applications</td>
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<td>MGT 201 Principles of Management</td>
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<td>MGT 210 Marketing Principles</td>
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<table>
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<tr>
<th>GENERAL EDUCATION REQUIREMENTS</th>
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<tr>
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<tbody>
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<td>ACC 201</td>
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<tr>
<td>BUS 101</td>
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<td>BUS 107 or EN 101</td>
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<td>BUS 108 or EN 102</td>
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MANAGEMENT - ONLINE
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<td>MGT 210</td>
<td>3</td>
</tr>
<tr>
<td>Management Elective</td>
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</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>BUS 273</td>
<td>3</td>
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<tr>
<td>BUS 299</td>
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<td>MGT 283</td>
<td>3</td>
</tr>
<tr>
<td>Management Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Sequences are based on enrollment that begins with the fall semester. Some courses may not be taught each semester.
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 degree 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)
• Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 1,7)
• Develop an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

CERTIFICATION PREPARATION - CISCO TECHNOLOGY (CSCO)

WNC is an academy for the Cisco Networking Academy Program

CCNA ROUTING AND SWITCHING PREPARATION

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.

CERTIFICATION PREPARATION - CYBERSECURITY

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.

Security+
CIT 217 3

Network Defense
CIT 273 3

Ethical Hacker
CIT 274 3

Hacking Forensics Investigation
CIT 275 3

MICROSOFT CERTIFICATION - MICROSOFT CERTIFIED TECHNOLOGY SPECIALIST (MCTS)

Microsoft Certification 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
The Certificate of Achievement in Computer Information Technology is designed to provide a student academic and industry recognition in computer technologies. It allows a student to pursue areas of interest in networking, system administration or a combination thereof based upon personal or professional interests or needs.

TOTAL REQUIREMENTS  30 UNITS

PROGRAM REQUIREMENTS  21 UNITS
Choose 21 units from the following:
CIT 114  IT Essentials 4
CIT 173  Linux Installation & Configuration 3
CIT 211 Microsoft Networking I 3
CIT 212 Microsoft Networking II 3
CIT 213 Microsoft Networking III 3
CIT 214 Microsoft Networking IV 3
CIT 217 Security + 3
CIT 263 Introduction to IT Project Management 3
CSCO 120 CCNA Interworking Fundamentals 4
CSCO 121 CCNA Routing Protocols 4
CSCO 220 CCNA Lan Switch Wireless 4
CSCO 221 CCNA Wan Fundamentals 4

GENERAL EDUCATION REQUIREMENTS  9 UNITS
English Writing Requirement 3
Mathematics Requirement 3
Human Relations Requirement 1-3
Electives 0-2

The Certificate of Achievement in Cybersecurity technician is designed to provide a student academic and industry recognition as they pursue their interests in cybersecurity. Students will learn the fundamentals of network defense and digital forensics as well as the methods used by penetration testers.

TOTAL REQUIREMENTS  30 UNITS

PROGRAM REQUIREMENTS  21 UNITS
CIT 217 Security + 3
CIT 273 Network Defense OR 3
CIT 274 Ethical Hacking

Choose 15 units from the following:
CIT 114  IT Essentials 4
CIT 173  Linux Installation & Configuration 3
CIT 211 Microsoft Networking I 3
CIT 263 Introduction to IT Project Management 3
CIT 273 Network Defense* 3
CIT 274 Ethical Hacking* 3
CIT 275 Hacking Forensics Investigation 3
CSCO 120 CCNA Interworking Fundamentals 4
CSCO 121 CCNA Routing Protocols 4
*If not used in first category of program requirements

GENERAL EDUCATION REQUIREMENTS  9 UNITS
English Writing Requirement 3
Mathematics Requirement 3
Human Relations Requirement 1-3
Electives 0-2

A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.
ASSOCIATE OF APPLIED SCIENCE - TECHNOLOGY DEGREE
COMPUTER INFORMATION TECHNOLOGY

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 230  Advanced JAVA 3
CIT 233  Advanced C++ 3
CIT 238  Introduction to Smartphone Application Development 3
CIT 273  Network Defense 3
CIT 274  Ethical Hacker 3
CIT 275  Hacking Forensics Investigation 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
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.

Suggested Course Sequence
FIRST SEMESTER
CIT 114 4
CSCO 120 4
CSCO 121 4
CIT 217 3
CIT 263 3
English Requirement 3
SECOND SEMESTER
CIT 217 3
CIT 173 3
CIT 263 3
CIT 211 3
English Requirement 3
THIRD SEMESTER
CIT 273 3
INF 100 3
CIT 128 3
Science Requirement 3
FOURTH SEMESTER
CIT 217 3
CIT 173 3
CIT 263 3
CIT 211 3
Human Relations 3
U.S./Nevada Constitution 3

NETWORK TECHNICIAN AAS PATHWAY
CIT 211  Microsoft Networking 3
CIT 212  Microsoft Networking II 3
CIT 173  Linux Installation & Configuration 3
CSCO 120  CCNA Internetworking Fundamentals 4
CSCO 121  CCNS Routing Protocols 4
CSCO 220  CCNA WNE Switching & Wireless 4
CSCO 221  CCNA WAN Fundamentals 4
CSCO 130  Fundamentals of Wireless LANs 4
CSCO 230  Fundamentals of Network Security 4

Suggested Course Sequence
FIRST SEMESTER
CIT 114 4
CSCO 120 4
CSCO 121 4
English Requirement 3
SECOND SEMESTER
CSCO 220 4
CSCO 221 4
CIT 217 3
CIT 212 3
English Requirement 3
THIRD SEMESTER
CIT 263 3
Human Relations 3
U.S./Nevada Constitution 3
FOURTH SEMESTER
CSCO 130 or CSCO 230 4
CIT 275 3
Humanities/Social Science 3
Math Requirement 3

SYSTEM ADMINISTRATION AAS PATHWAY
CSCO 120  CCNA Internetworking Fundamentals 4
CSCO 121  CCNS Routing Protocols 4
CIT 211  Microsoft Networking 3
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 & Configuration 3

Suggested Course Sequence
FIRST SEMESTER
CIT 114 4
CSCO 120 4
CSCO 121 4
English Requirement 3
SECOND SEMESTER
CIT 217 3
CIT 263 3
CIT 211 3
CIT 212 3
English Requirement 3
THIRD SEMESTER
CIT 128 3
CIT 212 3
CIT 215 or CIT 173 3
Math Requirement 3
U.S./Nevada Constitution 3

Note: Suggested course sequences based on enrollment that begins with the fall semester. Some courses may not be taught each semester.
### Construction/Inspection/Energy Technology

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.

#### Certification Preparation - Certified Inspector of Structures

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS 260</td>
<td>Certified Inspector of Structures-Residential</td>
<td>3</td>
</tr>
<tr>
<td>CONS 261</td>
<td>Under Floor Inspections-Certified Inspector</td>
<td>1</td>
</tr>
<tr>
<td>CONS 262</td>
<td>Above Floor Inspections-Certified Inspector</td>
<td>2</td>
</tr>
<tr>
<td>CONS 263</td>
<td>Supervised Residential Inspections for Certification</td>
<td>2</td>
</tr>
</tbody>
</table>

These courses fulfill the minimum course requirements needed for Nevada licensure as a certified inspector of Structures-Residential.

#### Certification Preparation - Construction Gateway

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM 100</td>
<td>Fundamentals of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108</td>
<td>Construction Methods/Materials I</td>
<td>4</td>
</tr>
<tr>
<td>CONS 205</td>
<td>Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CONS 290</td>
<td>Internship in Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

#### Certification Preparation - Ramsdell Construction Academy

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM 100</td>
<td>Fundamentals of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108</td>
<td>Construction Methods/Materials I</td>
<td>4</td>
</tr>
<tr>
<td>CONS 205</td>
<td>Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CONS 290</td>
<td>Internship in Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

Classes will prepare students for entry-level positions in the construction industry.

#### Skills Certificate - Energy Technology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS 205</td>
<td>Construction Site Safety</td>
<td>2</td>
</tr>
<tr>
<td>or OSH 222</td>
<td>General Industry Safety</td>
<td>1</td>
</tr>
<tr>
<td>MT 130</td>
<td>Introduction to the Natural Gas Industry</td>
<td>3</td>
</tr>
<tr>
<td>MT 132</td>
<td>Natural Gas Pipe Joining</td>
<td>3</td>
</tr>
<tr>
<td>MT 134</td>
<td>Natural Gas Line Locating and Leak Survey</td>
<td>3</td>
</tr>
</tbody>
</table>

The Skills Certificate in Energy Technology is designed to provide a student academic and industry recognition as they pursue training leading to direct entry into the natural gas industry. Students will learn the fundamentals required for working in the natural gas energy field.

### TOTAL REQUIREMENTS

**10-11 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS 205</td>
<td>Construction Site Safety</td>
<td>2</td>
</tr>
<tr>
<td>or OSH 222</td>
<td>General Industry Safety</td>
<td>1</td>
</tr>
<tr>
<td>MT 130</td>
<td>Introduction to the Natural Gas Industry</td>
<td>3</td>
</tr>
<tr>
<td>MT 132</td>
<td>Natural Gas Pipe Joining</td>
<td>3</td>
</tr>
<tr>
<td>MT 134</td>
<td>Natural Gas Line Locating and Leak Survey</td>
<td>3</td>
</tr>
</tbody>
</table>
CONSTRUCTION TECHNOLOGY
Construction

ASSOCIATE OF APPLIED SCIENCE TECHNOLOGY DEGREE - CONSTRUCTION

MISSION: To provide employment-related knowledge and skills necessary to succeed as a professional in a chosen field of study.

STUDENT LEARNING OUTCOMES:

• Know the appropriate subject matter. (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)
• Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
• Develop an appreciation of the 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, BUS 108; or ENG 101*, ENG 102*. 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

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

CONSTRUCTION TECHNOLOGY - Suggested Course Sequence

FIRST SEMESTER  COMPLETED
CONS 108 4
CEM 100 3
ENG 101 3
Human Relations Course 3
Science Course 3

SECOND SEMESTER  COMPLETED
CONS 109 4
CONS 120 3
SUR 119 3
English 102 3
Mathematics 126 or higher 3

THIRD SEMESTER  COMPLETED
CONS 111 3
CADD 100 3
CONS 118 2
General Elective 3
Humanities/Social Science 3

FOURTH SEMESTER  COMPLETED
CONS 121 3
CONS 205 2
CONS 281 3
CONS 290 3
SUR 119 3

For information on Bachelor of Applied Science Degree in Construction Management - see page 15
Criminal Justice

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.

CERTIFICATE OF ACHIEVEMENT

TOTAL REQUIREMENTS 30 UNITS

PROGRAM REQUIREMENTS 21 UNITS
CRJ 104 Criminal Justice 3
CRJ 164 Principles of Investigation 3
CRJ 106 or CRJ 211 Introduction to Corrections or Police in America 3
CRJ 222 Criminal Law and Procedures 3
CRJ 225 Criminal Evidence 3
CRJ 270 Introduction to Criminology 3
Program Elective 3

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

GENERAL ELECTIVE 3 UNITS
A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

ASSOCIATE OF APPLIED SCIENCE DEGREE

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS
CRJ 104 Introduction to Criminal Justice 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 9 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, COT or CIT 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

CRIMINAL JUSTICE - ON CAMPUS

Suggested Course Sequence

FIRST SEMESTER Completed
CRJ 104 3
ENG 101 3
Math Requirement 3
CRJ 106 or CRJ 211 3
SECOND SEMESTER Completed
CRJ 164 3
CRJ 211 3
CRJ 222 3
Program Elective 3
Science Requirement 3
THIRD SEMESTER Completed
CRJ 164 3
CRJ 222 3
CRJ 270 3
Program Elective 3
U.S./Nevada Constitution 3
FOURTH SEMESTER Completed
CRJ 225 3
CRJ 234 3
CRJ 270 3
Program Elective 3
U.S./Nevada Constitution 3

CRIMINAL JUSTICE - ONLINE

Suggested Course Sequence

FIRST SEMESTER Completed
CRJ 104 3
ENG 101 3
General Elective 3
Humanities Requirement 3
Math Requirement 3
SECOND SEMESTER Completed
CRJ 106 3
CRJ 155 3
Program Elective 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

A list of all courses filling general education requirements for the Certificate of Achievement can be found on page 14, the Associate of Applied Science page.
Deaf Studies

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 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.

CERTIFICATE PREPARATION - INTERPRETING

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

CERTIFICATE OF ACHIEVEMENT - AMERICAN SIGN LANGUAGE

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
AM 215 Conversational ASL 4
AM 216 Receptive ASL 4
AM 253 Deaf Culture 3
AM 254 Deaf History 3

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

DEAF STUDIES - 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>AM 140</td>
<td></td>
<td>AM 141</td>
<td></td>
</tr>
<tr>
<td>AM 151</td>
<td>1</td>
<td>AM 152</td>
<td>1</td>
</tr>
<tr>
<td>English Course</td>
<td>3</td>
<td>English Course</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
<td>AM Elective</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**CERTIFICATE OF ACHIEVEMENT - EARLY CHILDHOOD EDUCATION**

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>30 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**

| English/Communications Requirements: Recommended: BUS 108 | 6 |
| Mathematics Requirement: Recommended: BUS 109 | 3 |

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 or 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 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.
- Fulfill the combination of student learning outcomes for this program and general education.
- Meet the WNC Institutional Student Learning Outcomes.

Graphic Design

This program is designed for students who seek quick access to career fields involving print design, Web design, multimedia and animation. Students prepare for careers in graphic design for print and web, using current technologies. Coursework will provide students with knowledge and skills to create visual concepts and communicate ideas that inspire, inform and captivate consumers. 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).

ASSOCIATE OF APPLIED SCIENCE DEGREE

TOTAL REQUIREMENTS 60 UNITS

PROGRAM REQUIREMENTS 36 UNITS
ART 100* Visual Foundations 3
ART 101* Drawing 1 3
GRC 116* Introduction to Digital Art and Design 3
GRC 175 Web Design 1 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 294 Professional Portfolio 3
MKT 210 Marketing Principles 3

GENERAL EDUCATION REQUIREMENTS 24 UNITS
English/Communications Requirement: Recommend ENG 101* and 102* 6
Mathematics Requirement: Recommend Math 120* or higher 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.

CERTIFICATE OF ACHIEVEMENT

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 1 3
GRC 282 Motion Graphics for Video 3
MKT 210 Marketing Principles 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.

GRAPHIC DESIGN - Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>ART 100 or ART 101</td>
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</tr>
<tr>
<td>GRC 116</td>
<td>3</td>
</tr>
<tr>
<td>GRC 175</td>
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<tr>
<td>GRC 282</td>
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<td>General Education Course</td>
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<tbody>
<tr>
<td>GRC 200</td>
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<td>GRC 210</td>
<td>3</td>
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<tr>
<td>MKT 210</td>
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<tr>
<td>General Education Course</td>
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<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRC 220* Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 265 or ART 261* Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>MKT 210 Marketing Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GRC 275 or ART 261*</td>
<td>3</td>
</tr>
<tr>
<td>MKT 294</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

*Courses transfer to UNR or TMCC. Students should work closely with a counselor when planning their schedules.

EARN THIS DEGREE ONLINE

College on your time and schedule
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)
- Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Develop an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

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

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

LEVEL 1: CHUCKING, SURFACE GRINDING AND MILLING

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 105</td>
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</tr>
<tr>
<td>MTT 110</td>
<td>3</td>
</tr>
<tr>
<td>MTT 250</td>
<td>3</td>
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LEVEL 3: MEASUREMENT

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<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MTT 230</td>
<td>4</td>
</tr>
<tr>
<td>MTT 232</td>
<td>4</td>
</tr>
<tr>
<td>MTT 260</td>
<td>3</td>
</tr>
</tbody>
</table>

CERTIFICATE OF ACHIEVEMENT

Students will prepare for entry into machining occupations. Learn setup and use of industrial equipment and tools utilized by the machinist to manufacture parts for all types of machines. Operation of CNC (computer numerical control) lathes and mills and other hand tools prepare students for National Institute for Metalworking Skills (NIMS) exams Levels 1 and 3.

TOTAL REQUIREMENTS 30 UNITS

PROGRAM REQUIREMENTS 20 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT 110</td>
<td>3</td>
</tr>
<tr>
<td>or CONS 120</td>
<td>Blueprint Reading and Specification</td>
</tr>
<tr>
<td>MTT 105</td>
<td>3</td>
</tr>
<tr>
<td>MTT 106</td>
<td>2</td>
</tr>
<tr>
<td>MTT 110</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111</td>
<td>2</td>
</tr>
<tr>
<td>MTT 230</td>
<td>4</td>
</tr>
<tr>
<td>Related machine shop courses</td>
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</table>

GENERAL EDUCATION REQUIREMENTS 10 UNITS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>English/Communications Requirements: Recommended BUS 108; Must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics Requirement: MATH 110 recommended</td>
<td>3</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.

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>FIRST SEMESTER</th>
<th>Completed</th>
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</thead>
<tbody>
<tr>
<td>MTT 105</td>
<td>3 □</td>
</tr>
<tr>
<td>MTT 106</td>
<td>2 □</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>1 □</td>
</tr>
<tr>
<td>GE English/Comp Course</td>
<td>3 □</td>
</tr>
<tr>
<td>Mathematics Course</td>
<td>3 □</td>
</tr>
<tr>
<td>MTT Elective</td>
<td>3 □</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
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</tr>
</thead>
<tbody>
<tr>
<td>DFT 110/CONS 120</td>
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<tr>
<td>MTT 110</td>
<td>3 □</td>
</tr>
<tr>
<td>MTT 111</td>
<td>2 □</td>
</tr>
<tr>
<td>GE English/Comp Course</td>
<td>3 □</td>
</tr>
<tr>
<td>MTT 230</td>
<td>4 □</td>
</tr>
</tbody>
</table>

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

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>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>MTT 105</td>
<td>3</td>
</tr>
<tr>
<td>MTT 106</td>
<td>2</td>
</tr>
<tr>
<td>English Course (Bus 107 Recommended)</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
</tr>
<tr>
<td>Science Course</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT 110</td>
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<tr>
<td>MTT 110</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111</td>
<td>2</td>
</tr>
<tr>
<td>English Course</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Course</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 230</td>
<td>4</td>
</tr>
<tr>
<td>MTT 250</td>
<td>3</td>
</tr>
<tr>
<td>MTT 251</td>
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<tr>
<td>Humanities/Social Science Course</td>
<td>3</td>
</tr>
<tr>
<td>Program Elective</td>
<td>Units vary</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>MTT 232</td>
<td>4</td>
</tr>
<tr>
<td>MTT 260</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>Program Elective</td>
<td>Units vary</td>
</tr>
<tr>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>
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.

**MISSION:** The mission of the Associate of Applied Science in Technology degree 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 degree 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 1,6,7)
- Develop an appreciation of the importance of social, ethical, legal and diversity issues. (WNC SLO 5,7)
- Develop an appreciation of the need and importance of lifelong learning. (WNC SLO 1)

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

**AMERICAN WELDING SOCIETY ACCREDITATION**

The Andy Butti Welding Technology Center is the only accredited welding testing facility in Northern Nevada.

**SKILLS CERTIFICATES**

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.

**CERTIFICATE OF ACHIEVEMENT**

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**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
<th>SECOND SEMESTER</th>
<th>Completed</th>
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<tbody>
<tr>
<td>WELD 211  Welding I</td>
<td>3</td>
<td>WELD 221  Welding III</td>
<td>3</td>
</tr>
<tr>
<td>WELD 212  Welding I-Practice</td>
<td>2</td>
<td>WELD 222  Welding III Practice</td>
<td>2</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
<td>WELD 250  Welding Certification Preparation</td>
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<tr>
<td>GE English/Comp Course</td>
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<td>GE English/Comp Course</td>
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<td>Mathematics Course</td>
<td>3</td>
<td>Welding Elective</td>
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**UNITS**

**SHIELDED METAL ARC-WELDING AND GAS METAL ARC-WELDING**

WELD 211  Welding I  3
WELD 212  Welding I-Practice  2
WELD 221  Welding II  3
WELD 222  Welding II-Practice  2

**FLUXED-CORE WELDING AND GAS TUNGSTEN ARC-WELDING**

WELD 231  Welding III  3
WELD 232  Welding III-Practice  2
WELD 241  Welding IV  3
WELD 242  Welding IV-Practice  2

**AWS CODE EXAM**

WELD 250  Welding Certification Preparation  9
ASSOCIATE OF APPLIED SCIENCE - TECHNOLOGY DEGREE

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.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tbody>
<tr>
<td>WELD 211</td>
<td>3</td>
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<tr>
<td>WELD 212</td>
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</tr>
<tr>
<td>English Course (Bus 107 Recommended)</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Course</td>
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<tr>
<td>Science Course</td>
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<table>
<thead>
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<tbody>
<tr>
<td>English Course</td>
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<tr>
<td>Mathematics Course</td>
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</tr>
<tr>
<td>DFT 110</td>
<td>3</td>
</tr>
<tr>
<td>Program Elective</td>
<td>1-3</td>
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<tr>
<td>WELD 221</td>
<td>3</td>
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<tr>
<td>WELD 222</td>
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<table>
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<td>WELD 231</td>
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<td>Humanities/Social Science Course</td>
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<td>Program Elective</td>
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<td>WELD 242</td>
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<tr>
<td>WELD 250</td>
<td>4</td>
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<tr>
<td>Program Elective</td>
<td>3-5</td>
</tr>
<tr>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>
ALLIED HEALTH
Health Science/CNA/Phlebotomy

CERTIFICATION PREPARATION - CERTIFIED NURSING ASSISTANT

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.

CERTIFICATION PREPARATION - LABORATORY TECHNICIAN-PHLEBOTOMY

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.

ASSOCIATE OF APPLIED SCIENCE DEGREE - HEALTH SCIENCE

Assists students to apply for the WNC nursing program and provides the coursework toward potential transfer degrees in community health, public health, health education and related areas. Also can prepare students for health-related careers in emergency medical science, laboratory technician, nursing assistant and related areas.

TOTAL REQUIREMENTS

<table>
<thead>
<tr>
<th>PROGRAM REQUIREMENTS</th>
<th>36 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 101 Introduction to Community Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 190 Introduction to Cellular and Molecular Biology* OR CHEM 121 General Chemistry I*</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Choose 26 units from the following:</td>
<td></td>
</tr>
<tr>
<td>ANTH 101 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 223 Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 224 Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 251 General Microbiology</td>
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<tr>
<td>CHEM 122 General Chemistry II</td>
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<tr>
<td>CHEM 220 Intro to Organic Chemistry</td>
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<td>CHS 102 Foundations of Personal Health &amp; Wellness</td>
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<td>HDFS 201 Lifespan Human Development</td>
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<tr>
<td>EMS 100 Healthcare Provider CPR</td>
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<tr>
<td>EMS 108 Emergency Medical Technical Training</td>
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<tr>
<td>EMS 115 Advanced Emergency Medical Technician</td>
<td>7</td>
</tr>
<tr>
<td>LTE 101 Fundamental Phlebotomy</td>
<td>4</td>
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<tr>
<td>LTE 102 Applied Phlebotomy</td>
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</tr>
<tr>
<td>NURS 130 Nursing Assistant</td>
<td>6</td>
</tr>
<tr>
<td>NUTR 223 Fundamentals of Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

*Students may take BIOL 190 and CHEM 121 and have 4 units apply toward this requirement.

GENERAL EDUCATION

<table>
<thead>
<tr>
<th>24 UNITS</th>
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</thead>
<tbody>
<tr>
<td>ENG 101 Composition I</td>
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<tr>
<td>ENG 102 Composition II</td>
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<tr>
<td>Human Relations</td>
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<tr>
<td>Math 120 or higher</td>
</tr>
<tr>
<td>US/NV Constitutions</td>
</tr>
<tr>
<td>General Electives</td>
</tr>
</tbody>
</table>
Registered Nursing

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 (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 co-requisite 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 and preparing nursing students to successfully navigate educational pathways to achieve their professional goals.

STUDENT LEARNING OUTCOMES:

• Incorporate principles from the bio/psycho/social sciences, mathematics, humanities, 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/nursing judgment.
• 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 healthcare.
• 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 PROGRAM ADMISSION

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.

<table>
<thead>
<tr>
<th>SELECTION CRITERIA POINTS</th>
<th>Science GPA</th>
<th>GPA</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>20-2.25</td>
<td>2.0-2.49</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
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<tr>
<td></td>
<td>2.26-2.50</td>
<td>2.5-2.99</td>
</tr>
<tr>
<td></td>
<td>(2)</td>
<td>(2)</td>
</tr>
<tr>
<td></td>
<td>2.51-2.75</td>
<td>3.0-3.49</td>
</tr>
<tr>
<td></td>
<td>(3)</td>
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<td>2.76-3.00</td>
<td>3.5-4.0</td>
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<tr>
<td></td>
<td>(4)</td>
<td>(4)</td>
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<td></td>
<td>3.01-3.25</td>
<td>2.51-2.75</td>
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<td>(5)</td>
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<td>3.26-3.50</td>
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<td></td>
<td>(6)</td>
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<tr>
<td></td>
<td>3.76-4.00</td>
<td>3.76-4.00</td>
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<td></td>
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</tbody>
</table>

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 Assessment Technologies Institute, Test of Essential Academic Skills 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 Western Nevada College 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 ATI TEAS 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, nights 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 and in the student handbook.
- 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 for 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 is 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.
Registered Nursing

ASSOCIATE OF APPLIED SCIENCE DEGREE - REGISTERED NURSING

TOTAL REQUIREMENTS 71.5 UNITS

PREREQUISITE COURSES* 21 UNITS
CHEM 121 General Chemistry I 4
or BIOL 190 Introduction to Cell and Molecular Biology
BIOL 223* Human Anatomy and Physiology I 4
BIOL 224* Human Anatomy and Physiology II 4
ENG 101 Composition I 3
MATH 120 Fundamentals of College Mathematics 3
or MATH 124 College Algebra
or higher level of math
PSY 101 General Psychology 3

*Biol 223 & BIOL 224 must be completed at the same college or university if 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 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
ENG 102 Composition II 3
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, 223, 224 and 251 fulfills the science general education requirement for the Associate of Applied Science degree in Nursing.

REGISTERED NURSING Suggested Course Sequence

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 III 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.
Emergency Medical Services

STUDENT LEARNING OUTCOMES:

• Demonstrate behaviors consistent with professional and employer expectations of an entry-level EMT/AEMT.
• Demonstrate proficiency in all skills necessary to fulfill the role of an entry-level EMT/AEMT.
• Demonstrate the ability to comprehend, evaluate and apply information relative to the role of an entry-level EMT/AEMT.

OTHER IMPORTANT INFORMATION

• EMT/AEMT 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 acute care hospitals, clinics and other medical facilities.
• Field experience takes place on an ALS ambulance or ALS/ILS Fire Department Engine/Rescue under the direct supervision of a preceptor.
• Documentation and currency of the following is required prior to acceptance into the EMS 108 and/or EMS 115 courses:
  • An acceptable physical examination and required immunizations and tests.
  • Current CPR certification - American Heart Association Healthcare Provider.
  • Major medical health insurance (card required).
  • An acceptable background check.

*For EMS 115 an EMT Nevada State Certification IS required. National Registry Certification will not be accepted.

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.

CERTIFICATION PREPARATION EMS 115 – ADVANCED EMERGENCY MEDICAL TECHNICIAN

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.

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement-Emergency Medical Services (EMS) is designed for individuals interested in providing care to patients in the pre-hospital setting, and will prepare students for Paramedic level training. This program will provide the knowledge, skills and attitudes necessary for an entry-level EMT/AEMT and allow eligibility to sit for national and state testing for emergency medical technician and advanced emergency medical technician. The program meets or exceeds the required skills and knowledge as set forth by the NHTSA’s office of EMS National EMS Education Standards and Instructional Guidelines.

TOTAL REQUIREMENTS 30 UNITS

PROGRAM REQUIREMENTS 15 UNITS

EMS 108 Emergency Medical Technician (EMT) 7.5
EMS 115* Advanced Emergency Medical Technician (AEMT) 7.5

*Current Nevada State EMT Certification is a required prerequisite for EMS 115.

GENERAL EDUCATION REQUIREMENTS 15 UNITS

ENG 101 Composition I 3
MATH Mathematics 3
PSY Any Psychology class except 210 (PSY 101 recommended) 3
COM 101 Oral Communications 3
BIOL 200* Elements of Human Anatomy & Physiology 3

*BIOI 223 & BIOI 224 will be accepted in place of BIOI 200

BACKGROUND CHECKS: A background check is required by health care organizations. Students will be conditionally accepted into WNC’s paramedic 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 paramedic program. Students will be denied entrance into the WNC paramedic program if an adverse background check is received from a clinical site. Drug screening will also be required by clinical sites.
Students will develop the knowledge, skills and attitudes necessary for an entry-level paramedic and allow eligibility to sit for national and state testing for emergency medical technician, advanced emergency medical technician and paramedic. The program meets or exceeds the required skills and knowledge as set forth by the NHTSA’s office of EMS National EMS Education Standards and Instructional Guidelines.

MISSION: The Paramedic Program reflects the mission of Western Nevada College by assisting students to develop professional competencies that value lifelong learning, use of evidence-based practice, ethical integrity and critical thinking skills. The development of the competencies prepares students to function as safe and competent entry-level professionals.

STUDENT LEARNING OUTCOMES:

- Demonstrate behaviors consistent with professional and employer expectations of an entry-level paramedic.
- Demonstrate proficiency in all skills necessary to fulfill the role of an entry-level paramedic.
- Demonstrate the ability to comprehend, evaluate and apply information relative to the role of an entry-level paramedic.

PARAMEdicINE PROGRAM ADMISSION

SELECTION CRITERIA: Admission is based on special admission procedures and the number of points an applicant receives. Eligible students will be numerically ranked according to total points. Admission will be offered to the applicants on the list with the highest priority points. In the event of applicants having an equal number of points, applicants will be selected as below. Selection will be accomplished by the EMS Committee using the following point-based criteria:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete EMS 108 with grade of C or higher at an NSHE Institution</td>
<td>2 pts</td>
</tr>
<tr>
<td>Complete EMS 115 with grade of C or higher at an NSHE Institution</td>
<td>2 pts</td>
</tr>
<tr>
<td>Letters of recommendation from EMS agency staff (3 maximum)</td>
<td>1 pt each</td>
</tr>
<tr>
<td><strong>Total Points</strong></td>
<td><strong>7 pts</strong></td>
</tr>
</tbody>
</table>

Selection criteria score will determine the applicant’s rank in the program admission process. In the event of a tie in accumulated points, the priority will be given to the applicant:

1. First, by overall score on the FISDAP Paramedic Entrance Exam.
2. Second, to the applicant who has a documented EMS agency sponsorship agreement for the internship. Form provided in application packet.

Tied accumulated selection criteria points, and subsequent program candidate selection, only becomes a factor when there are more applicants than seats available in the program.

Students must apply for admission to Western Nevada College AND the WNC paramedic program. Applications for the next spring are available on the WNC Nursing & Allied Health Web page on or after Sept 2. The last date for submission of an application to the program is Nov 15.

PREREQUISITES: Students must complete BIOL 200* with a grade of “C” or better to apply for the paramedic program (C- or lower will not be accepted) and provide a copy of their Nevada State Certification at the Advanced Emergency Medical Technician (AEMT). National Registry Certification will not be accepted. State AEMT certification is due to the program within one (1) week of the start of classes. Students may apply for admission to the paramedic program while in the process of completing BIOL 200, provided the course is completed by the end of the applicable fall semester or, if taken at another institution, an official transcript showing completion of the course is provided by Jan 2 to Admissions and Records of the year of application. Evidence of courses in progress must be submitted to Admissions and Records by the application deadline.

*BIOL 223 & 224 may be accepted in lieu of BIOL 200

APPLICATION AND SUPPORTING DOCUMENTS: Submit the completed application with supporting documents, which includes Nevada State Certification at the AEMT level to the EMS Program in the time frame delineated in the application packet. When applicable, official transcripts from other colleges must be submitted to WNC Admissions and Records.

ENTRANCE TESTING: Students are required to take the FISDAP Paramedic Entrance Exam as part of the application process. The entrance exam for prospective paramedic students is an EMS-specific exam that is designed to evaluate nationally registered EMTs who are applying or matriculating to paramedic school. Please see the Paramedic Program Coordinator or NAH Department for fee and scheduled times.

REQUIREMENTS:

- A grade of C or better in all paramedic courses is required to continue in program.
- Applicants not selected will not be carried forward and must reapply to be considered for admission the following year.
- Paramedic students are expected to meet the DOT Functional Job Analysis as described in the application packet.
- Documentation and currency of the following after acceptance into the program and prior to the start of classes:
  - An acceptable physical examination and required immunizations and tests.
  - Current CPR certification - AHA Healthcare Provider
  - Major medical health insurance (card required)
  - An acceptable background check

OTHER IMPORTANT INFORMATION:

- Paramedic 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 acute care hospitals, clinics and other medical facilities.
- Field experience takes place on an ALS ambulance under the direct supervision of a preceptor.

CERTIFICATE OF ACHIEVEMENT

Prepares competent entry-level paramedics in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains with or without exit points at the advanced emergency medical technician, emergency medical technician, and/or emergency responder levels.

<table>
<thead>
<tr>
<th>TOTAL REQUIREMENTS</th>
<th>52 UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROGRAM REQUIREMENTS</td>
<td>40 UNITS</td>
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<tr>
<td>SPRING SEMESTER COURSES</td>
<td>18 UNITS</td>
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<tr>
<td>EMS 200</td>
<td>Fundamentals of Paramedic Medicine</td>
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<tr>
<td>EMS 203</td>
<td>Assessment Based Management I</td>
</tr>
<tr>
<td>EMS 206</td>
<td>Principles of Pharmacology &amp; Medication Administration</td>
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<tr>
<td>EMS 207</td>
<td>Airway Management &amp; Ventilation for Paramedics</td>
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<td>EMS 209</td>
<td>Patient Assessment for Paramedics</td>
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<td>EMS 210</td>
<td>Principles of Cardiology for the Paramedic</td>
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<td>SUMMER SEMESTER COURSES</td>
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<td>EMS 211</td>
<td>Paramedic Care for Medical Emergencies &amp; ACLS</td>
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<td>EMS 212</td>
<td>Paramedic Trauma Emergencies &amp; ITLS</td>
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<td>EMS 214</td>
<td>Paramedic Pediatric Emergencies</td>
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<td>EMS 215</td>
<td>Assessment Based Management II</td>
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<td>EMS 216</td>
<td>Hospital Clinical Experience for the Paramedic</td>
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<tr>
<td>FALL SEMESTER COURSES</td>
<td>4 UNITS</td>
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<tr>
<td>EMS 217</td>
<td>Field Internship for the Paramedic</td>
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<tr>
<td>*Current Nevada State EMS Certification and selective admission is a required prerequisite for paramedic courses/program.</td>
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GENERAL EDUCATION REQUIREMENTS

<table>
<thead>
<tr>
<th>TOTAL REQUIREMENTS</th>
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<td>Composition I</td>
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<td>MATH</td>
<td>Mathematics</td>
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<tr>
<td>PSY</td>
<td>Any psychology course except 210 (recommend 101)</td>
</tr>
<tr>
<td>BIOL 200*</td>
<td>Elements of Human Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>*BIOL 223 &amp; BIOL 224 will be accepted in place of BIOL 200</td>
<td></td>
</tr>
</tbody>
</table>
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ADVANCED CAREER TRAINING
ONLINE COURSES

Get the career skills and certifications you need with these open-enrollment online courses. Everything you need to complete your course (including exam fees, software and books) is included in the cost of tuition, and most courses take 6 months-1 year to complete. Funding options are available through JOIN, Inc., Community Chest of Northern Nevada and the Nye Communities Coalition. Contact us for more information!

CBCS MEDICAL BILLING AND CODING
A comprehensive course that prepares you to earn a certification as a medical biller and coder.

CERTIFIED ADMINISTRATIVE PROFESSIONAL
Prepare for the Certified Administrative Professional exam and learn the essential skills you need to work as an administrative assistant.

CERTIFIED PROFESSIONAL LIFE COACH
Learn the core competencies of a life coach and create your own distinctive coaching style.

PHARMACY TECHNICIAN
Gain the skills and knowledge to qualify for an entry-level position in a pharmacy and get prepared for your national certification exam.

CERTIFIED PHYSICAL THERAPY AIDE
Master the skills you need to pass your national certification exam and work as a physical therapy aide.

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 certificates of completion are designed to promote career advancement and personal growth.

CDL TEST PREP - FALLON
This class is designed to prepare students to pass the written General Knowledge test, Air Brakes test and Combination Vehicles test. These tests are required to obtain a Commercial Driver’s License (CDL) in the State of Nevada.

The class will be 90% classroom instruction and 10% hands-on instruction. For this class, the focus will be on the sections 1, 2, 3, 5, and 6 of the driver’s manual. The hands-on portion of the class will focus on the pre-trip inspection and air brakes procedure.

CDL SKILLS TEST PREPARATION - FALLON
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).

SPECIALTY CROP INSTITUTE
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/
ACCEL College and Career Readiness is funded through a federal grant that ensures that our non-credit, adult basic education classes are at little or no cost to you!

Whether you are looking to increase your skills to succeed in college, get a better job, or to be more active in your community, the ACCEL College and Career Readiness program is here to help you reach your personal and professional goals. Let us help you…

- Prepare to take a High School Equivalency exam – GED or HiSET and take the official GED or HiSET test to earn the High School Equivalency credential.
- Improve English language skills for non-native English speakers.
- Build or refresh basic reading, writing, and math skills for college.
- Earn college credit through Integrated Education and Training programs designed to provide practical and relevant knowledge, workforce readiness and training, and academic experiences that result in certificates and industry-recognized credentials.
- Boost digital literacy, computer skills and employability skills such as communication, teamwork, problem-solving, and critical thinking skills to succeed in the job market.
- Prepare for the U.S. Citizenship Interview.

We understand that students enter the program with a wide variety of skills and life experiences; therefore, we make every effort to tailor instruction to meet each student’s unique needs. We offer online and classroom instruction, tutoring, and coaching. We believe that encouragement and a positive environment are keys to helping students gain both the skills and the confidence needed to make each individual’s goals a reality.

REGISTER!

Registration now open! Registration can be completed online at www.wnc.edu/accel or in person. To register in person, please come to the ACCEL office located at Western Nevada College in Bristlecone room 340. You can also register by calling our office at (775) 445-4452.

ENROLL!

Once registered, you will need to make an appointment to complete enrollment paperwork and take the placement test. Appointments are available on Mondays between 10 a.m. and noon and on Tuesdays between 1 p.m. and 5 p.m. Please allow 2-3 hours to complete the enrollment process. Depending on the class or program of interest, students will take one or two placement assessments. Meet with a success coach to make your individual learning plan.

BEGIN!

Attend classes, tutoring, and online opportunities. Take advantage of tutoring and online supplementary instruction and support right away.

PAY IT FORWARD!

While the course offerings are free, there are costs for testing and credit-bearing classes. To help keep these costs affordable, we do accept donations. Your donation will have a direct impact on the lives of adult learners in our community who are working to change their lives through education. To donate, please contact Angela Holt at 775-445-4452.
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.
CAMPUS RESOURCES

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