WESTERN NEVADA COLLEGE

Academic Program Guide

FALL 2018 - SUMMER 2019

Start Here - Go Anywhere
Get Started!

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

www.wnc.edu/starthere/

Apply for Admission
www.wnc.edu/starthere/

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

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

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

Apply for Financial Aid & Scholarships
The WNC Foundation awards over $200,000 in scholarships each year. Grants, loans and on-campus student work are available.

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.
Degrees & Certificates

Western Nevada College offers academic degrees and programs to meet a variety of educational goals. You may wish to learn technical skills, or you may be preparing to transfer to a four-year college or university. A number of one-year certificates are also offered in technical areas.

Associate of Arts
Associate of Science
Associate of Business
Associate of General Studies
Associate of Applied Science
  - Accounting
  - Business
  - Criminal Justice
  - Deaf Studies
  - Automated Systems
  - Automotive Mechanics
  - Computer Information Technology
  - Construction
  - General Industrial Technology
  - Graphic Communications
  - Machine Tool Technology
  - Management
  - Mechatronics
  - Nursing
  - Welding

Bachelor of Applied Science
  - Construction Management

Certificates of Achievement and Workforce Certifications for more than 15 career pathways.
OCCUPATIONAL PROGRAMS
WNC offers two-year career preparation programs in many areas. Students learn technical skills that lead to jobs while earning an Associate of Applied Science degree.

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

Bachelor of Applied Science Degree
Construction Management

Associate of Applied Science Degree

Business - Accounting
Business - General
Business - Management
Criminal Justice
Deaf Studies
Graphic Communications
Nursing

Technology
- Automated Systems
- Automotive Mechanics
- Computer Information Technology
- Construction
- General Industrial
- Machine Tool
- Mechatronics
- Welding
SKILL DEVELOPMENT

Associate of General Studies Degree
This general degree fits a wide variety of needs. Work closely with a counselor to determine if this degree meets your goals.

Certificate of Achievement
One-year academic programs that provide specific career skills.
- American Sign Language
- Automotive Mechanics
- Bookkeeping
- Business
- Computer Technology, Network Support Technician
- Computer Technology, System Administration Technician
- Criminal Justice – General
- Early Childhood Education
- General Industrial Technology
- Graphic Communications
- Industrial Electronics Technology
- Machine Tool Technology
- Mechatronics Foundation
- Welding Technology

Workforce Certifications
Prepare for a career in as little as 8 weeks by earning industry-recognized credentials.
- Automotive Service Excellence
- Autobody Collision & Repair
- Bookkeeping
- Business
- Certified Inspector of Structures
- Certified Nursing Assistant
- Cisco Certified Networking Associate
- Construction Craft Laborer
- CyberSecurity
- Deaf Studies-Interpreting
- Emergency Medical Services
- Industrial Electronics Technician
- Machine Tool Technology
- Manufacturing Technician
- Mechatronics Levels 1 & 2
- Microsoft Certified Technology Specialist
- Microsoft Certified IT Specialist
- Phlebotomy/Venipuncture
- Ramsdell Construction Academy
- Real Estate
- Teacher Education
- Welding Certification
TRANSFER DEGREES

Associate of Arts • Associate of Business • Associate of Science

Transfer degrees are for individuals who plan to transfer from WNC to a four-year college or university to pursue a bachelor's degree. At WNC, students receive quality education at a lower cost, with smaller classes and a comfortable learning environment.

WNC enables you to prepare for these areas of study.

- Accounting
- Accounting Information Systems
- Agriculture Science
- Animal Science
- Anthropology
- Art
- Art History
- Astronomy
- Atmospheric Science
- Biochemistry & Molecular Biology
- Biology
- Biomedical Engineering
- Biotechnology
- Business
- Business Administration
- Chemical Engineering
- Chemistry
- Civil Engineering
- Communication Studies
- Community Health Sciences
- Computer Science & Engineering
- Counseling & Educational Psychology
- Criminal Justice
- Ecological Hydrology
- Economics
- Education
- English
- Electrical Engineering
- Engineering Physics
- Environmental Engineering
- Environmental Science
- Finance
- Forest Management & Ecology
- French
- General Studies
- Geography
- Geological Engineering
- Geology
- Geophysics
- History
- Human Development & Family Studies
- Hydrogeology
- Information Systems
- Integrated Elementary Teaching
- International Affairs
- International Business
- Journalism
- Management
- Materials Science & Engineering
- Mathematics
- Marketing
- Medicine
- Mechanical Engineering
- Metallurgical Engineering
- Mining Engineering
- Molecular Biology/Immunology
- Music
- Music Education
- Music: Applied (Instrumental, Jazz, Voice)
- Natural Resources & Environmental Science
- Neuroscience
- Nutrition
- Nursing
- Philosophy
- Physics
- Political Science
- Psychology
- Rangeland Ecology & Management
- Renewable Energy
- Secondary Education (Nevada Teach)
- Social Work
- Sociology
- Spanish
- Speech Pathology
- Theatre
- Veterinary Science
- Wildlife Ecology & Conservation
- Women's Studies

Teacher Education Bachelor Degree Partnership
Nevada State College .... see page 29

*NOTE: Transfer degrees enable students to pursue a variety of majors at a college or university. Listed are the current majors at UNR.

Students who plan to transfer should work closely with a WNC counselor and keep in contact with their intended transfer institution.

ATTEND COLLEGE ONLINE
WNC's transfer degrees can be earned online.
WNC STUDENT LEARNING OUTCOMES

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

SLOs one through six provide the structure for general education and alignment for academic program outcomes; SLO seven provides a connection for career preparation emphases.

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

Upon completing a degree at WNC, students must demonstrate:

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

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

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

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

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

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

7. CAREER PREPARATION – Identify, describe, and apply information in the discipline or career area of their choice sufficient for further study and/or demonstrate competencies required to succeed in the workplace.

FIND WHAT YOU NEED

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

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

STUDENT LEARNING OUTCOMES

ONLINE LEARNING OUTCOMES

ONLINE LEARNING OUTCOMES

JUMP START COLLEGE

TRANSFER DEGREES

Associate of Arts Degree

Associate of Business Degree

Associate of Science Degree

CAREER DEGREES & CERTIFICATIONS

Associate of General Studies Degree

Bachelor of Applied Science Degree

Certificate of Achievement

Certification Preparation/Licensure

PROGRAMS/CAREER PATHWAYS

Advanced Manufacturing

Automated Systems

General Industrial Technology

Automotive Technology

Business

Accounting

General Business

Management

Computer Information Technology

Construction

Criminal Justice

Deaf Studies

Education

Graphic Communications

Machine Tool

Nursing & Allied Health

Welding

Continuing Education Programs

FIND WHAT YOU NEED

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

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

Associate of Applied Science Degrees
Accounting • General Business • Criminal Justice • Graphic Communications • Management

Certificates of Achievement
Business • Bookkeeping • Criminal Justice • Graphic Communications • Network Support Technician

Many other programs have online courses available.

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

www.wnc.edu/online-programs/

Students should work closely with a counselor to help build their online degree path.

*The AS degree requires students to complete a science lab course on campus.
TRANSFER DEGREES

Every year, a large number of WNC students successfully transfer to other schools. 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.

ASSOCIATE OF ARTS
Degree Requirements page 4

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<thead>
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<th>Suggested Course Sequence</th>
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<td>U.S./Nevada Constitution</td>
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<td>Fine Arts Course</td>
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<td>Take courses that meet requirements for the major at intended transfer school.</td>
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ASSOCIATE OF BUSINESS
Degree Requirements page 5

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<td>IS 101</td>
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ASSOCIATE OF SCIENCE
Degree Requirements page 6

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<td>ECON 105</td>
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<td>SECOND SEMESTER</td>
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<td>ENG 102</td>
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<td>U.S./Nevada Constitution</td>
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<td>THIRD &amp; FOURTH SEMESTER</td>
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<tr>
<td>Take courses that meet requirements for the major at intended transfer school.</td>
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</tr>
</tbody>
</table>

JUMP START your college degree

The Jump Start program is a dual-enrollment opportunity for students attending Nevada high schools. Students enroll in college courses through Western Nevada College while simultaneously earning high school credits. WNC’s dual-credit Jump Start College program has been recognized as the ACT College and Career Readiness State Exemplar Award recipient.

www.wnc.edu/jump-start/

REAL COLLEGE COURSES, ON A REAL COLLEGE SCHEDULE
COMPLETE CORE COLLEGE COURSES WHILE IN HIGH SCHOOL
CREDITS TRANSFER TO A UNIVERSITY
INDUSTRY-RECOGNIZED CREDENTIALS

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

Career & Technical Education Opportunities
Students interested in Career & Technical Education can earn 24 college units as well as industry credentials in high-demand, high-wage jobs.

Advanced Manufacturing • Automotive Mechanics
Business • Computer Information Technology • Construction
The Associate of Arts degree is for students planning to transfer with junior standing to a four-year college or university for a Bachelor of Arts degree. Satisfactory completion of an AA degree guarantees completion of the lower division general education requirements at University of Nevada, Reno; University of Nevada, Las Vegas; Nevada State College; and many other colleges and universities.

PROGRAM REQUIREMENTS
The Associate of Arts degree is designed so students may tailor it to meet degree requirements for a variety of majors at transfer institutions.

LIBERAL ARTS REQUIREMENT - 6 units.
Choose from the following. Courses used to meet general education requirements may also be used to fulfill Liberal Arts requirements:
- Any foreign language course numbered 200 or higher (AM 147, 148 accepted)
- ART, ENG, MUS, THTR numbered 200 or higher
- CH, HIST, PHIL numbered 200 or higher
- ANTH, CRJ, ECON, HGPS, PSC, PSY, SOC, SW numbered 200 or higher
- GEOG 200, HDFS numbered 200 or higher

TRANSFER REQUIREMENTS OR GENERAL ELECTIVES - 22–27 units.
Students should utilize this area to take courses that meet requirements for their major at their intended transfer school. Those who have not yet selected a major may choose from among any university transferable courses to explore their options. Students planning to transfer to the University of Nevada, Reno should obtain a transfer agreement from WNC Counseling Services or the UNR Transfer Center.

GENERAL EDUCATION REQUIREMENTS
33–38 units

ENGLISH/COMMUNICATIONS REQUIREMENT - 6–8 units.
English: 100 or 101, 102

FINE ARTS REQUIREMENT - 3 units.
Art: 100, 101*, 124, 141, 160, 211, 216, 231, 260, 261
Music: 101, 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.

SCIENCE REQUIREMENT - 6 units.
Chemistry: 100, 121, 122
Physical Science: 100, 110, 110L
Astronomy: 109, 110, 120
Atmospheric Sciences: 117
Biology: 100, 113, 190 & 190L, 191 & 191L, 200
Chemistry: 100, 121, 122
Geology: 100, 101, 102, 103, 105, 127, 201
Nutrition: 121
Physics: 100, 151, 152, 180 & 180L, 181 & 181L, 182 & 182L
Note: Completion of CHEM 121 or BIOL 190 & 190L, BIOL 223 and BIOL 224, and BIOL 251 fulfills the science general education requirement.

HUMANITIES REQUIREMENT - 3 units.
Core Humanities: 201, 202
English: 200, 223, 267
History: 105, 106, 208, 209, 247
Philosophy: 101, 135, 200, 203, 204, 207, 210

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

MATHEMATICS REQUIREMENT - 3 units.
Mathematics: 120, 126, 127, 128, 176, 181, 182
Statistics: 152

SOCIAL SCIENCES REQUIREMENT - 3 units.
Choose from the following list:
Anthropology: 101, 102, 202
Criminal Justice: 101, 102
Economics: 100, 102, 103
Geography: 100, 106
History: 101, 102, 111, 217
Political Science: 103, 208, 231
Psychology: 101, 102, 233, 234, 240, 261
Sociology: 101, 261

U.S. & NEVADA CONSTITUTION REQUIREMENT - 3 to 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

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.
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. Satisfactory completion of an AB degree guarantees completion of the lower division general education requirements at UNR, UNLV, NSC, and many other colleges and universities.

All courses counting toward this degree must be university transferable. Courses with a number under 100 (such as ENG 95) are not applicable toward this degree. Courses that are not transferable are indicated with a non-transferable 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.

PROGRAM REQUIREMENTS

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 REQUIREMENT - 6 units.
English: 101, 102

FINE ARTS REQUIREMENT - 3 units.
Art: 100, 101*, 124, 141, 160, 211, 216, 231, 260, 261
Humanities: 101
Music: 121, 124, 125, 176
Music: Ensemble: 101*, 131, 135
Theatre: 100, 105*, 180
* Course may not meet the fine arts requirement at all universities. Please see a counselor.

HUMANITIES REQUIREMENT - 3 units.
Core Humanities: 201, 202
English: 200, 223, 267
History: 105, 106, 208, 209, 247
Philosophy: 101, 135, 200, 203, 204, 207, 210

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

MATHEMATICS REQUIREMENT - See Program Requirements

SCIENCE REQUIREMENT - 6 units.
Anthropology: 102, 110L
Astronomy: 109, 110, 120
Atmospheric Sciences: 117
Biology: 100, 113, 190 & 190L, 191 & 191L, 200
Chemistry: 100, 121, 122
Environmental Studies: 100, 101
Geography: 103, 104
Geology: 100, 101, 102, 103, 105, 127, 201
Nutrition: 121
Physics: 100, 151, 152, 180 & 180L, 181 & 181L, 182 & 182L
Note: Completion of CHEM 121, BIOL 223 and BIOL 224, and BIOL 251 fulfills the science general education requirement.

SOCIAL SCIENCES REQUIREMENT - See Program Requirements

U.S. & NEVADA CONSTITUTION REQUIREMENT - 3 to 6 units.
Must meet both requirements. Choose from:
Core Humanities: 203
History: 111
History: 101 and one of the following: HIST 102, HIST 217, PSC 100, PSC 208
Political Science: 101, 103

Suggested Course Sequence - Page 3

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...

• Evaluate the impacts of economic systems and policies.
• Summarize, record, analyze, interpret and communicate accounting and financial information for decision-making.
• Devise, implement and evaluate marketing (management) decisions, actions and outcomes.
• 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.
• Meet the institutional student learning outcomes (1-6).
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. Satisfactory completion of an AS degree guarantees completion of the lower division general education requirements at UNR, UNLV, NSC and many other colleges and universities.

All courses counted toward this degree must be university transferable. Courses with a number under 100 (such as ENG 95) are not applicable toward this degree. Courses that are not transferable are indicated with a non-transferable 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.

### PROGRAM REQUIREMENTS

A minimum of 18 units chosen from the following:

**MATHEMATICS REQUIREMENT** - 6 units.
- Math 181 or higher required.
- Statistics: 152

**SCIENCE REQUIREMENT** - 12 units.
- Choose a minimum of 8 units from Group A.

<table>
<thead>
<tr>
<th>Group A:</th>
<th>Group B:</th>
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<tr>
<td>Anthropology: 102 &amp; 110L</td>
<td>Astronomy: 109, 110, 120</td>
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<td>Biology: 190 &amp; 190L, 191 &amp; 191L, 251</td>
<td>Atmospheric Sciences: 117</td>
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<td>Chemistry: 121, 122</td>
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<td>Geology: 101, 102, 103</td>
<td>Chemistry: 220</td>
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<tr>
<td>Geography: 103 &amp; 104, or 121</td>
<td>Computer Engineering: 201</td>
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**HUMANITIES REQUIREMENT** - 3 units.
- History: 101, 102, 111, 217
- English: 200, 223, 267

**SOCIAL SCIENCES REQUIREMENT** - 3 units.
- History: 105, 106, 207, 208, 209, 247
- Philosophy: 101, 135, 200, 203, 204, 207, 210

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

**ENGLISH/COMMUNICATIONS REQUIREMENT** - 6-8 units.
- English: 100 or 101, 102

**FINE ARTS REQUIREMENT** - 3 units.
- Art: 100, 101*, 124, 141, 160, 211, 216, 231, 260, 261
- Humanities: 101
- Music: 121, 124, 125, 176
- Music: Ensemble: 101*, 131, 135
- Theatre: 100, 105*, 180

* Course may not meet the Fine Arts requirement at all universities. Please see a counselor.

**GENERAL EDUCATION REQUIREMENTS**

A minimum of 18-23 units chosen from the following:

**SCIENCE REQUIREMENT** - See program requirements

**MATHEMATICS REQUIREMENT** - See program 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.

**Suggested Course Sequence - Page 3**
Associate of General Studies

This degree provides academic exploration for those seeking personal growth or professional advancement.

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.

PROGRAM REQUIREMENTS
A minimum of 60 total units chosen from the following categories:

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

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

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

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.

SCIENCE REQUIREMENT - 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
Geology: 105 (except for GEOL 111, 112, 113, 229)
Nutrition: 121
Physics (except for PHYS 293)

SOCIAL SCIENCES REQUIREMENT - 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 REQUIREMENTS - 3 to 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 and Political Science Combination (History 101 and Political Science 208)

GENERAL ELECTIVES - 36 or 39 units.
Students may choose from any occupational or general education courses to be used as electives for this degree. Some non-traditional credit approved by Admissions and Records may be applicable to satisfy course requirements for occupational degrees, while other such units may be used as electives for the AGS and AAS degrees only. Students planning to transfer to the University of Nevada, Reno should use the UNR core curriculum guide to satisfy general education requirements.

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.
Associate of Applied Science

A CAREER DEGREE

This degree provides career preparation, training and industry credentials in an occupational and/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.

PROGRAM REQUIREMENTS ELECTIVES

36-39 units

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 REQUIREMENT - 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

HUMAN RELATIONS REQUIREMENT - 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 REQUIREMENTS - 3 units.
Choose from either humanities or social science areas:

Humanities:
Art: 100, 101*, 124, 160, 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
* Course may not meet the fine arts requirement at all universities. Please see a counselor.

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

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

SCIENCE REQUIREMENT - 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
Geology: (except for GEOL 111, 112, 113, 299)
Nutrition: 121
Physics (except for PHYS 293)

U.S. & NEVADA CONSTITUTION REQUIREMENTS - 3 to 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)

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: Students who complete an Associate of Applied Science degree at WNC are expected to demonstrate that they...

• 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.
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.

CERTIFICATE REQUIREMENTS

30 total units chosen from the following categories:

ENGLISH/COMMUNICATIONS REQUIREMENTS - 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.

HUMAN RELATIONS REQUIREMENT - 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)

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

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

Certificate of Achievement - Mission And Outcomes

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

Student Learning Outcomes: Students who complete a Certificate of Achievement are expected to demonstrate that they...
   • Know the subject matter appropriate to the emphasis of the certificate.
   • Are able to do the following:
     - 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.

Certification & Licensing Preparation

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

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

Advanced Manufacturing
   Industrial Electronics Technology • Manufacturing Technician
   Mechatronics Level I and Level II

Allied Health
   Certified Nursing Assistant • Emergency Medical Services
   Laboratory Technician-Phlebotomy

Automotive Technology
   Automotive Collision Repair • Automotive Service Excellence

Business/Accounting
   Bookkeeping • Real Estate

Computer Information Technology
   Cisco Networking • CompTIA Security+ • Microsoft Certification

Construction
   Certified Inspector of Structures • Ramsdell Construction Academy
   Construction Craft Laborer

Deaf Studies
   Interpreting

Machine Tool Technology
   National Institute for Metalworking Skills Level I and Level II

Nursing
   Certified Nursing Assistant • Emergency Medical Services

Teacher Education
   Nevada State College Partnership Bachelor Degree State Licensure Preparation
   Praxis Exam Preparation

Welding
   American Welding Society
ADVANCED MANUFACTURING
Career and Technical Education Academic Division

These programs focus on the use of innovative technologies and skilled professionals to improve products and processes. Students focus on the integration of high-tech equipment, automation, computer software, and electronic technologies to control industrial systems and machines in manufacturing, distribution and logistics environments. Courses include electrical and fluid power fundamentals, wiring and electronic controls, and robotics, as well as production operations and troubleshooting to provide students with technical theory and hands-on practice to maintain and operate automated systems for a variety of industries.

AUTOMATED SYSTEMS
Associate of Applied Science - Technology Degree

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

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

Total Requirements: 60 units
Program Requirements: 36 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 101</td>
<td>Fundamentals of Applied Industrial Technology</td>
<td>4</td>
</tr>
<tr>
<td>AIT 121</td>
<td>Electrical Control Systems</td>
<td>1</td>
</tr>
<tr>
<td>AIT 155</td>
<td>Applied Hands-on AIT Labs</td>
<td>3</td>
</tr>
<tr>
<td>ET 104</td>
<td>Fabrication/Soldering Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ET 131</td>
<td>DC for Electronics</td>
<td>4</td>
</tr>
<tr>
<td>MT 115</td>
<td>Applied Programmable Logic Controllers</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose at least 14 units from the following program electives:
- CADD 100 Introduction to Computer Aided Drafting | 3
- CADD 245 Solid Modelling 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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement:</td>
<td></td>
</tr>
<tr>
<td>Must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations: Recommended: BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

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

AUTOMATED SYSTEMS - Suggested Course Sequence

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>AIT 101</td>
<td>4</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>AIT 155</td>
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<td>☐</td>
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<tr>
<td></td>
<td>English Course: BUS 107</td>
<td>3</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>ET 131</td>
<td>4</td>
<td>☐</td>
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<tr>
<td>SECOND SEMESTER</td>
<td>ET 132</td>
<td>4</td>
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<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
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<tr>
<td></td>
<td>Humanities/Social Science</td>
<td>3</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>Human Relations Course</td>
<td>3</td>
<td>☐</td>
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<tr>
<td></td>
<td>MATH 110</td>
<td>3</td>
<td>☐</td>
</tr>
<tr>
<td>THIRD SEMESTER</td>
<td>AIT 121</td>
<td>1</td>
<td>☐</td>
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<tr>
<td></td>
<td>English Course</td>
<td>3</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>Program Electives</td>
<td>7-9</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
<td>☐</td>
</tr>
<tr>
<td>FOURTH SEMESTER</td>
<td>ET 104</td>
<td>3</td>
<td>☐</td>
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<tr>
<td></td>
<td>ET 115</td>
<td>3</td>
<td>☐</td>
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<tr>
<td></td>
<td>MT 115</td>
<td>3</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>Program Electives</td>
<td>5-7</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>Science Course</td>
<td>3</td>
<td>☐</td>
</tr>
</tbody>
</table>
GENERAL INDUSTRIAL TECHNOLOGY
Associate of Applied Science

This degree is designed to develop skills and knowledge that can be applied in a variety of industries and facilities with a focus on installation, maintenance and management of technical, electrical and mechanical systems. A broad base of study in electronics, fluid power, mechanical systems, machine tool, welding and wiring is offered. Hands-on practice and theoretical knowledge will prepare individuals for a variety of above entry-level electrical/mechanical technician positions or technical support positions in the industrial, manufacturing, technology or commercial environments.

Salary: $30,550-$47,930/year (Nevada)
Career Outlook: Above Average Growth
Good To Know: Leads to employment as a maintenance or industrial technician

Total Requirements: 60 units
Program Requirements: 36 Units
- AIT 101 Fundamentals of Applied Industrial Technology 4
- AIT 155 Applied Hands-on AIT Labs 3
- DFT 110 Blueprint Reading for Industry 3
- Any MTT courses 5
- Any WELD courses 5

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

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

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

MECHATRONICS TECHNOLOGY
Associate of Applied Science - Technology Degree

This technical degree program ensures hands-on experience and operational knowledge of mechatronics in a complex system as aligned with the rigorous Siemens industry certification exam objectives. The program courses include specialization in electrical, mechanical, fluid power, and programmable logic control modules while solidifying skills for advanced manufacturing, including project management, process optimization, research, cost control, safety, documentation, and effective teamwork. The degree specialization will prepare students for certification exams at both Level 1 and Level 2 of the Siemens Certified Mechatronics Systems program.

Salary: $57,400-$92,210/year (Nevada)
Career Outlook: Above Average Growth
Good To Know: Leads to employment as: Manufacturing Technician, Engineering Technician, Industrial Technician, Industrial Maintenance, Robotics Technician, Systems Technician, Production Lead

Total Requirements: 60 units
Program Requirements: 34 Units
- AIT 101 Fundamentals of Applied Industrial Technology 4
- AIT 250 Mechatronics: Electrical Components 3
- AIT 251 Mechatronics: Mechanical Components 3
- AIT 252 Mechatronics: Pneumatic and Hydraulic 3
- AIT 253 Mechatronics: Programmable Logic Controllers 3
- AIT 270 Mechatronics 2: Process Control Technologies 3
- AIT 271 Mechatronics 2: Intro to Totally Integrated Automation 3
- AIT 272 Mechatronics 2: Automation Systems 3
- AIT 273 Mechatronics 2: Motor Control 3
- AIT 274 Mechatronics 2: Mechanics and Machine Elements 3
- AIT 275 Mechatronics 2: Manufacturing Processes 3

Program Electives: (Choose at least 2 units from the following program electives)
- Any AIT, CADD, ET, ENRG, or MT course 2

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

NOTE: Many courses are open-entry, open-exit.
INDUSTRIAL ELECTRONICS TECHNOLOGY - Certificate of Achievement

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

Total Requirements: 30 credits

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 four units from:
- 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 Requirements:
- Recommended: BUS 107, and BUS 108, ENG 101 or ENG 107
- Must include a writing course 6
- Humam 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.

INDUSTRIAL ELECTRONICS TECHNOLOGY - Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
<th>SECOND SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 101</td>
<td>4</td>
<td>ET 104</td>
<td>4</td>
</tr>
<tr>
<td>ET 131</td>
<td>3</td>
<td>MT 115</td>
<td>3</td>
</tr>
<tr>
<td>Program Elective</td>
<td>2</td>
<td>Program Elective</td>
<td>2</td>
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<tr>
<td>English Course</td>
<td>3</td>
<td>Mathematics Course</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
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</tr>
</tbody>
</table>

MECHATRONICS TECHNOLOGY - Certificate of Achievement

This certificate covers the fields of electricity, mechanics, fluid power and programmable logic controllers while also teaching important skills for advanced manufacturing, including project management, process management and optimization, cost controlling, safety and effective teamwork.

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
- Humman Relations Requirement: Recommended: BUS 110 Human Relations for Employment
- Mathematics Requirement: Recommended: MATH 110 Shop Mathematics

MECHATRONICS TECHNOLOGY - Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
<th>SECOND SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 101</td>
<td>4</td>
<td>AIT 250</td>
<td>3</td>
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<tr>
<td>AIT 102</td>
<td>3</td>
<td>AIT 251</td>
<td>3</td>
</tr>
<tr>
<td>English Course</td>
<td>2</td>
<td>English Course</td>
<td>2</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
<td>AIT 253</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>English Course</td>
<td>3</td>
</tr>
</tbody>
</table>
INDUSTRIAL ELECTRONICS TECHNOLOGY  
Certification Preparation
This course of study prepares students for the Certified Electronics Technician Associate Exam, which is administered by the International Society of Certified Electronics Technicians (ISCET). Upon completion of the coursework student will have learned basic electronics, math, DC and AC circuits, transistors and troubleshooting.

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

MANUFACTURING TECHNICIAN  
Certification Preparation
The Manufacturing Technician 1 ©(MT1) credential ensures that an individual is prepared for manufacturing positions including fundamental knowledge and skills in electrical, fluid power and control systems. The course of study includes precision measurement, process and machine troubleshooting, problem-solving, machine maintenance concepts, and basic use of diagnostic, visual and statistical tools. Students will prepare for the nationally recognized certification exams covering broad-based knowledge of the multi-step processes needed to successfully analyze, troubleshoot and solve problems beyond the scope of typical machine operators.

<table>
<thead>
<tr>
<th>Units</th>
<th>AIT 101 Fundamentals of Applied Industrial Technology 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AIT 155 Applied Industrial Technology Hands-on Labs 3</td>
</tr>
<tr>
<td></td>
<td>AIT 200 Applied Industrial Technology Projects 3</td>
</tr>
</tbody>
</table>

MECHATRONICS FOUNDATION (LEVEL I)  
Certification Preparation
Mechatronics Systems are complex electrical, mechanical and computer technologies integrated into automated systems in high-tech industrial environments. This advanced program of study prepares students to earn the Siemens Certified Mechatronic Systems Assistant Level 1 Certification, an internationally recognized credential documenting demonstrated skills with root cause analysis, historical analysis for preventive maintenance and system-level troubleshooting.

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

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

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>18 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 270 Process Control Technologies 3</td>
<td></td>
</tr>
<tr>
<td>AIT 271 Intro Totally Integrated Automation 3</td>
<td></td>
</tr>
<tr>
<td>AIT 272 Automation Systems 3</td>
<td></td>
</tr>
<tr>
<td>AIT 273 Motor Control 3</td>
<td></td>
</tr>
<tr>
<td>AIT 274 Mechanics and Machine Elements 3</td>
<td></td>
</tr>
<tr>
<td>AIT 275 Manufacturing Processes 3</td>
<td></td>
</tr>
</tbody>
</table>
AUTOMOTIVE TECHNOLOGY
Career and Technical Education Academic Division

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.

AUTOMOTIVE MECHANICS
Associate of Applied Science - Technology Degree

Salary: $24,400-$62,590/year (Nevada)
Career Outlook: Average growth
Good To Know: Mechanics can be certified in as many as eight service areas. Most jobs are at repair shops and auto dealerships.

Total Requirements: 60 units
Program Requirements 36 Units
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
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.

Associate of Applied Science - Automotive Mechanics - Mission & Outcomes
Mission: The mission of the Associate of Applied Science in Automotive Mechanics is to provide employment-related knowledge and skills necessary to succeed in the automotive field.
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 automotive field.
- Acquire skills and perform tasks necessary for employment or career enhancement.
- Present themselves effectively to a potential employer.
- Utilize appropriate resources to remain current in the automotive field.
- Are able to:
  - communicate effectively and appropriately, in oral and written form.
  - locate, evaluate and properly utilize the tools and resources appropriate to a technology professional.
  - acquire skills and perform tasks necessary for employment or career enhancement.
- Have developed:
  - an appreciation of the importance of social, ethical, legal and diversity issues.
  - an appreciation of the need and importance of lifelong learning.

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

FIRST SEMESTER Completed
AUTO 101 3
AUTO 115 4
AUTO 130 3
BUS 107 3
Mathematics Course 3

SECOND SEMESTER Completed
AUTO 117 4
AUTO 145 4
AUTO 225 4
Humanities/Social Science Course 3

THIRD SEMESTER Completed
AUTO 155 4
AUTO 160 3
AUTO 227 4
Science Course 3

FOURTH SEMESTER Completed
AUTO 210 3
BUS 108 3
Human Relations Course 3
U.S./Nevada Constitution 3
AUTOMOTIVE TECHNOLOGY

Certificate of Achievement

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

Total Requirements: 31 units

Program Requirements 19 Units
AUTO 101 Introduction to General Mechanics 3
AUTO 115 Auto Electricity & Electronics I 4
AUTO 145 Automotive Brakes 4
AUTO 155 Steering & Suspension 4
AUTO 225 Engine Performance I/Fuel & Ignition 4

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

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

AUTOMOTIVE MECHANICS - Suggested Course Sequence

FIRST SEMESTER Completed
AUTO 101 3
AUTO 115 4
AUTO 145 4
English Course 3
Human Relations Course 1

SECOND SEMESTER Completed
AUTO 155 4
AUTO 225 4
Mathematics Course 3
English Course 3
General Elective Course 2

AUTOMOTIVE SERVICE EXCELLENCE

Certification Preparation

Prepares students for Automotive Service Excellence Exams. Units

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

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

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

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

AUTOMOTIVE COLLISION REPAIR

Certification Preparation

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

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

——Autonomous 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).
BUSINESS/ACCOUNTING/MANAGEMENT

Career and Technical Education Academic Division

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.

ACCOUNTING

Associate of Applied Science - Business Degree

Salary: $25,600-$37,800/year (Nevada)

Career Outlook: Above average growth; demand is increasing as regulations for bookkeepers standards and auditing become stricter.

Good To Know: Tax preparation growth is on the decline as tax software becomes more widely used.

Total Requirements: 60 units

Core Business Requirements 30 Units

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

Accounting Degree Requirements 6 Units

ACC 203 Intermediate Accounting 3
ACC 220 Microcomputer Accounting Systems 3
or ACC 223 Introduction to QuickBooks

Accounting Electives 9 Units

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

Students should consult a counselor or instructor for information regarding sequence of accounting courses.

General Education Requirements 15 Units

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

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

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

Business - Mission & Outcomes

Mission: The purpose of the AAS Business degree is to provide the knowledge and skills necessary to be a successful manager.

Student Learning Outcomes: Upon completing an AAS Business degree from Western Nevada College, students will be able to:
1. Articulate and demonstrate their personal employment related knowledge, skills and abilities.
2. Evaluate the impact of various economic systems and policies.
3. Summarize, record, analyze, interpret and communicate accounting and financial information for decision-making.
4. Devise, implement and evaluate managerial decisions, actions and outcomes.
5. Apply technology to aid in communications and decision-making.
6. Present research, data, analysis and conclusions through written and oral means.
7. Describe the changing landscape of the global market and its impact on the United States.
8. Summarize the impact of social, ethical, legal and diversity issues within contemporary business.
9. Develop business, financial and marketing plans for established and emerging businesses.

ACCOUNTING - Suggested Course Sequence

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

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

College on your time & schedule

EARN THIS DEGREE ONLINE
GENERAL BUSINESS
Associate of Applied Science Degree

Salary: $33,550–$59,240/year (Nevada)
Career Outlook: Average growth, strong competition
Good To Know: Often includes hiring, training and supervising employees, although the increased use of computers may require managers to handle professional tasks with fewer employees.

Total Requirements: 60 units

Core Business Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 273</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 299</td>
<td>Business Capstone</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or IS 201</td>
<td>Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 210</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

Accounting Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 135</td>
<td>Bookkeeping I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ACC 201</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Business Electives - in three different areas

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 299</td>
<td>Business Elective 3</td>
<td></td>
</tr>
<tr>
<td>BUS 273</td>
<td>BUS 273</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>MGT 201</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>ECON 102</td>
<td>3</td>
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</tbody>
</table>

Science Requirement 3

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

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

MANAGEMENT
Associate of Applied Science - Business Degree

Salary: $32,540–$49,960/year (Nevada)
Career Outlook: Average growth
Good To Know: Managers work in almost every industry. The increase in computer use may result in supervision of fewer people and the need for managers to independently perform more professional duties.

Total Requirements: 60 units

Core Business Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 201</td>
<td>Financial Accounting</td>
<td>3</td>
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<tr>
<td>ACC 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 273</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 299</td>
<td>Business Capstone</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or IS 201</td>
<td>Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 210</td>
<td>Marketing Principles</td>
<td>3</td>
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</tbody>
</table>

Management Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MGT 235</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 283</td>
<td>Introduction to Human Resources Management</td>
<td>3</td>
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Management Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS 299</td>
<td>Business Elective 3</td>
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<tr>
<td>BUS 273</td>
<td>BUS 273</td>
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</tr>
<tr>
<td>MGT 201</td>
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<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>ECON 102</td>
<td>3</td>
</tr>
</tbody>
</table>

Science Requirement 3

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

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

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

Total Requirements: 30 units

Program Requirements: 21 Units

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

Business Electives: 6 Units

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

General Education Requirements: 9 Units

- English/Communications Requirements: Recommended: BUS 107 and BUS 108,
  or ENG 101 and ENG 102, must be a writing course 6
- Mathematics Requirement 3

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

<table>
<thead>
<tr>
<th>BUSINESS - Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
</tr>
<tr>
<td>ACC 135 or ACC 201</td>
</tr>
<tr>
<td>BUS 101</td>
</tr>
<tr>
<td>BUS 107 or ENG 101</td>
</tr>
<tr>
<td>IS 101 or IS 201</td>
</tr>
<tr>
<td>Business Elective</td>
</tr>
</tbody>
</table>

BOOKKEEPING
Certificate of Achievement

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

Total Requirements: 30 units

Program Requirements: 21 Units

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

Choose 6 units from the following:

- ACC 120  Payroll & Employee Benefit Accounting 3
- ACC 202  Managerial Accounting 3
- ACC 203  Intermediate Accounting I 3
- ACC 220  Microcomputer Accounting Systems 3
- ACC 223  Introduction to QuickBooks 3
- ACC 290  Certified Bookkeeper Course 6

General Education Requirements: 9 Units

- English/Communications Requirements: Recommended: BUS 107, BUS 108;
  Must include a writing course 6
- Mathematics Requirement 3

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

<table>
<thead>
<tr>
<th>BOOKKEEPING - Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
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<td>BUS 101</td>
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<tr>
<td>BUS 107 or Eng/Comm</td>
</tr>
<tr>
<td>BUS 109 or MATH 120</td>
</tr>
<tr>
<td>IS 101 or IS 201</td>
</tr>
</tbody>
</table>
BOOKKEEPING
Certificate Preparation

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

ACC 290  Certified Bookkeeper Course  6

REAL ESTATE
Certification Preparation

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

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>RE 101</td>
<td>Real Estate Principles</td>
</tr>
<tr>
<td>3</td>
<td>RE 103</td>
<td>Real Estate Principles II</td>
</tr>
</tbody>
</table>

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
COMPUTER INFORMATION TECHNOLOGY
Associate of Applied Science - Technology Degree

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

Total Requirements: 60 units

Program Requirements

CIT 114 IT Essentials 4
CIT 128 Introduction to Software Development 4
CIT 161 Essentials of Information Security 3
CIT 263 Introduction to IT Project Management 3
INF 100 Introduction to Informatics I-Basic Concepts 3

Choose 19 units from one of 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
CSCO 120 CCNA Internetworking Fundamentals Elective 4
CSCO 121 CCNA Routing Protocols & Concepts 4
CSCO 130 Fundamentals of Wireless LANs 4
CSCO 220 CCNA LAN Switch Wireless 4
CSCO 221 CCNA WAN Fundamentals 4
CSCO 230 Fundamentals of Network Security 4
GRC 183 Design with Photoshop 3
IS 101 Introduction to Information Systems 3
IS 201 Computer Applications 3

General Education Requirements

24 Units

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

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

NETWORKING
Suggested Course Sequence

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Completed</th>
<th>THIRD SEMESTER</th>
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<tbody>
<tr>
<td>CIT 114</td>
<td>4</td>
<td>CIT 263</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 120</td>
<td>4</td>
<td>CIT 211</td>
<td>3</td>
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<tr>
<td>CSCO 121</td>
<td>4</td>
<td>CIT 212 or CIT 173</td>
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<tr>
<td>English Requirement</td>
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<td>Science Requirement</td>
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<tr>
<td>Math Requirement</td>
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<tbody>
<tr>
<td>CIT 161</td>
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<td>CIT 130 or CIT 230</td>
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<tr>
<td>CSCO 220</td>
<td>3</td>
<td>INF 100</td>
<td>3</td>
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<tr>
<td>CSCO 221</td>
<td>3</td>
<td>Human Relations</td>
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<tr>
<td>English Requirement</td>
<td>3</td>
<td>Humanities/Social Science</td>
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<td>U.S./Nev. Constitution</td>
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SYSTEM ADMINISTRATION
Suggested Course Sequence

<table>
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<th>FIRST SEMESTER</th>
<th>Completed</th>
<th>THIRD SEMESTER</th>
<th>Completed</th>
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<tbody>
<tr>
<td>CIT 114</td>
<td>4</td>
<td>CIT 173</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 120</td>
<td>4</td>
<td>CIT 263</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 121</td>
<td>4</td>
<td>CIT 213 or CIT 214 or CIT 215</td>
<td>3</td>
</tr>
<tr>
<td>English Course</td>
<td>3</td>
<td>Science Course</td>
<td>3</td>
</tr>
<tr>
<td>Math Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>Completed</th>
<th>FOURTH SEMESTER</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 161</td>
<td>3</td>
<td>CIT 130 or CIT 214 or CIT 215</td>
<td>3</td>
</tr>
<tr>
<td>CITO 211</td>
<td>3</td>
<td>INF 100</td>
<td>3</td>
</tr>
<tr>
<td>CITO 212</td>
<td>3</td>
<td>Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>English Course</td>
<td>3</td>
<td>Humanities/Social Science</td>
<td>3</td>
</tr>
<tr>
<td>U.S./Nev. Constitution</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students interested in studying CyberSecurity should contact 445-3255.
COMPUTER TECHNOLOGY
Network Support Technician Certificate of Achievement

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

Total Requirements: 33-35 units

Program Requirements 26 Units
CIT 161 Essentials of Information Security 3
CIT 263 Introduction to IT Project Management 3
CISCO 120 CCNA Interworking Fundamentals 4
CISCO 121 CCNA Routing Protocols & Concepts 4
CISCO 130 Fundamentals of Wireless LANs 4
CISCO 220 CCNA LAN Switching & Wireless Fundamentals 4
CISCO 221 CCNA WAN Fundamentals 4

General Education Requirements 7–9 Units
English/Communications Requirements: Must include a writing course 3
Human Relations Requirement 1–3
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.

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SYSTEM ADMINISTRATION TECHNICIAN

COMPUTER TECHNOLOGY - SYSTEM ADMINISTRATION TECHNICIAN
Suggested Course Sequence

FIRST SEMESTER Completed
CIT 211 Essentials of Information Security 3
CIT 212 Microsoft Networking I 4
CIT 213 Microsoft Networking II 4
CIT 214 Microsoft Networking III 4
CIT 215 Microsoft Networking IV 4
or CIT 165 Introduction to Convergence 3
or ET 155 Home Technology Convergence 3

SECOND SEMESTER Completed
CIT 216 Introduction to IT Project Management 3

TOTAL REQUIREMENTS: 26 UNITS

---

MICROSOFT CERTIFICATION

Microsoft Certified Technology Specialist (MCTS) 4
CIT 211 Microsoft Certification Technology Specialist (MCTS) 4
Windows Client Exam (currently Windows 7)

Microsoft Certified IT Professional – Server Administrator 3-5
CIT 212 Microsoft Networking II 3-5
CIT 213 Microsoft Networking III 3-5
CIT 214 Microsoft Networking IV 3-5

---

CYBERSECURITY
Certification Preparation

As 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.

CISCO TECHNOLOGY (CSCO) Certification Preparation

WNC is an academy for the Cisco Networking Academy Program.

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

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

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

Course for Building Scalable Cisco Internetworks Exam; required course to become a Cisco Certified Networking Specialist:
CISCO 280* CCNP Advanced Routing 4

Course for Implementing Secure Covered Wide Area Networks Exam; required course to become a Cisco Certified Networking Specialist:
CISCO 281* CCNP Implementing Secure Covered Wide Area Networks 4

Course for Multilayer Switching Exams; required course to become a Cisco Certified Networking Specialist:
CISCO 282* CCNP Multilayer Switching 4

* Note: WNC does not issue a certificate of completion for this course.

A fee is associated with most exams.
CONSTRUCTION MANAGEMENT

Career and Technical Education Academic Division

WNC’s Construction program provides industry-specific training that addresses topics of critical importance to subcontractors, general contractors, superintendents and project managers. Students will study contract administration, coordination, negotiation, quality control and the management of labor resources, equipment and materials.

Bachelor of Applied Science

APPLIED BACCALAUREATE DEGREE IN CONSTRUCTION MANAGEMENT

This degree allows those who have completed an associate degree in construction technology to progress academically and earn a bachelor’s degree.

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

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. A minimum of 12 units must be in applicable construction courses. This requirement may be waived if the student has construction experience.
   b. 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.

Capstone Course - 9 units.
Construction Management: 456
Choose 6 units from:
   Communication: 412
   Management: 462, 469

English/Communications Requirements - 9 units. Choose from:
   Business: 107
   Communication: 101 or 102 or 113 or 213
   English: 100 or 101
   English: 102

Fine Arts Requirement - 3 units. Choose from:
   Art: 100, 101, 124, 141, 160, 211, 216, 224, 231, 260, 261
   Humanities: 101
   Music, Ensemble: 101
   Music: 111, 121, 124, 125, 131, 134, 135, 176
   Theatre: 100, 105, 180

Humanities Requirement - 3 units. Choose from:
   Core Humanities: 201, 202
   English: 200, 223, 243, 250, 261, 266, 267, 271, 275
   History: 105, 106, 207, 208, 209, 247
   Philosophy (except for PHIL 102, 114)

Mathematics and Science Requirements - 12 units. Choose from:
   a minimum of 4 units in mathematics and 6 units in science:
   Mathematics
   Mathematics: 126 & 127, 128 or higher
   Statistics: 152
   Science
   Chemistry: 100, 121
   Environmental Studies: 100
   Geology: 100, 101, 103
   Physics: 100, 151, 180

Social Sciences Requirement - 3 units.
   Anthropology: 101, 201, 202, 210, 212, 215
   Core Humanities: 203
   Criminal Justice: 101, 102, 220, 230, 270
   Geography: 106, 200
   History: 101, 102, 111, 217, 295
   Political Science: 103, 105, 108, 208, 231, 295, 299
   Psychology (except for PSY 210)
   Sociology (except for SOC 210)

U.S. and Nevada Constitution Requirements - 3 to 6 units. Choose from:
   Core Humanities: 203
   History: 111
   History: 101 and one of the following: HIST 102, HIST 217, PSC 100, PSC 208
   Political Science: 101, 103
   History & Political Science Combination (History 101 and Political Science 208)

General Electives - 6 units.
CONSTRUCTION MANAGEMENT
Bachelor of Applied Science Degree

Salary: $53,550-$77,790/year (Nevada)
Career Outlook: Above average growth; changes in building technology and policies are increasing the demand for construction managers.
Good To Know: Construction managers are often self-employed. Those with a bachelor’s degree will have the best job prospects.

Total Requirements: 120 units
Business and Management Core Requirements 12 Units
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

Program Requirements 63 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 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 2
CONS 120 Blue Print Reading and Specifications 3
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 45 Units
Capstone Courses (CEM 456 required) 9
English/Communications Requirements 9
Fine Arts Requirement 3
Humanities Requirement 3
Mathematics, Science and Statistics Requirements 12
Social Sciences Requirement 3
U.S. and Nevada Constitution Requirements 3
General Electives 3

Recommended: AC 198, CONS 114, CONS 116, CONS 230 or DFT 100

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

FIRST SEMESTER Completed
CEM 100 3
CONS 108 4
ENG 101 3
MATH 126 or higher 3
Science Course 3

SECOND SEMESTER Completed
CONS 109 4
CONS 118 3
CONS 120 3
ENG 102 3
Math Course 3

THIRD SEMESTER Completed
CADD 100 3
CONS 118 3
CONS 121 2
Humanities Course 3
General Elective Course 3

FOURTH SEMESTER Completed
CONS 205 2
CONS 281 3
SUR 119 3
Economics Course 3
U.S./Nevada Constitution 3

FIFTH SEMESTER Completed
ACC 201 3
Bus/Management Courses 3
English/Comm Course 3
Science Course 3

SIXTH SEMESTER Completed
CEM 330 3
CEM 350 3
CEM 432 3

SEVENTH SEMESTER Completed
CEM 451 3
CEM 453 3
CEM 454 3
CEM 455 3
Bus/Management Courses 3

EIGHTH SEMESTER Completed
CEM 452 3
CEM 485 3
CONS 451 3
Capstone Course 9

Bachelor of Applied Science - Mission & Outcomes
Mission: The mission of the Bachelor of Applied Science Degree in Construction Management is to prepare students for entry-level and mid-level positions within the various construction industry disciplines, and to meet the goals of the Technology Division.
Student Learning Outcomes: Upon completing the Bachelor of Applied Science in Construction Management program, students will be able to demonstrate:
• Knowledge in basic economic principles, business principles and construction accounting, finances and law.
• Exposure to the design theory and analysis of construction practices and systems.
• Understanding of the utilization of available resources for construction planning, methods and materials.
• Understanding, skill and knowledge of construction documents, communications, graphics and surveying.
• Skill and knowledge in construction accounting, estimating and bidding practices.
• Ability to plan and schedule construction projects.
• Application of relevant administrative skills, ethics, safety practices and problem-solving techniques to construction management.
CONSTRUCTION
Associate of Applied Science – Technology Degree

Salary: $24,140-$50,050/year (Nevada)
Career Outlook: Average growth
Good To Know: Employment depends on economy, and layoffs may occur during times of low construction activity. Changes in building technology and policies may increase the need for construction personnel.

Total Requirements: 60 units

Program Requirements 36 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 100</td>
<td>Introduction to Computer Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>CEM 100</td>
<td>Fundamentals of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108</td>
<td>Construction Materials and Methods I</td>
<td>4</td>
</tr>
<tr>
<td>CONS 109</td>
<td>Construction Materials and Methods II</td>
<td>4</td>
</tr>
<tr>
<td>CONS 111</td>
<td>Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>CONS 118</td>
<td>Construction Contract Documents</td>
<td>2</td>
</tr>
<tr>
<td>CONS 120</td>
<td>Blueprint Reading and Specification</td>
<td>3</td>
</tr>
<tr>
<td>CONS 121</td>
<td>Principles of Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CONS 205</td>
<td>Construction Site Safety</td>
<td>2</td>
</tr>
<tr>
<td>CONS 281</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td>CONS 290</td>
<td>Internship in Construction</td>
<td>3</td>
</tr>
<tr>
<td>SUR 119</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements 24 Units

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement:</td>
<td>6</td>
</tr>
<tr>
<td>Recommended: BUS 107, Must include a writing course</td>
<td></td>
</tr>
<tr>
<td>Human Relations: Recommended: BUS 110</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement: MATH 126 or higher</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Construction Technology - Suggested Course Sequence

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>CONS 108</td>
<td>Construction Site Surveying</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CEM 100</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English 101</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Human Relations Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SECOND SEMESTER</td>
<td>CONS 109</td>
<td>Internship in Construction</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CONS 120</td>
<td>Construction Site Surveying</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SUR 119</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English 102</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematics 126 or higher</td>
<td>3</td>
<td></td>
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</tbody>
</table>

CONSTRUCTION TECHNOLOGY - Suggested Course Sequence

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THIRD SEMESTER</td>
<td>CONS 111</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADD 100</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CONS 118</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities/Social Science Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FOURTH SEMESTER</td>
<td>CONS 121</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CONS 205</td>
<td>Construction Surveying</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CONS 281</td>
<td>Construction Planning Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CONS 290</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S./Nev. Constitution</td>
<td>3</td>
<td></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 - Technology - Mission & Outcomes

Mission: The purpose of the Associate of Applied Science degree in Technology is to provide employment-related knowledge and skills necessary to succeed in a chosen field of study. Students who complete programs in occupational areas are expected to demonstrate that they:
- Know the subject matter appropriate to the emphasis of the degree.
- Are able to:
  - communicate effectively and appropriately, in oral and written form.
  - locate, evaluate and properly utilize the tools and resources appropriate to a technology professional.
  - acquire skills and perform tasks necessary for employment or career enhancement.
- Have developed:
  - an appreciation of the importance of social, ethical, legal and diversity issues.
  - an appreciation of the need and importance of lifelong learning.

A fee is associated with most exams.
### Certified Inspector of Structures – State of Nevada

**Certification Preparation**

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

<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>

### Ramsdell Construction Academy

**Certification Preparation**

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

<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 109</td>
<td>Construction Methods/Materials II</td>
<td>4</td>
</tr>
<tr>
<td>CONS 111</td>
<td>Commercial Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>CONS 118</td>
<td>Construction Contract Documents</td>
<td>2</td>
</tr>
<tr>
<td>CONS 120</td>
<td>Blueprint Reading and Specification</td>
<td>3</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>

### Construction Gateway Construction Craft Laborer

**Certification Preparation**

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

<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>
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<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>
</tbody>
</table>

Construction courses follow the National Center for Construction Education and Research (NCCER) Contren Learning Series curriculum.
CRIMINAL JUSTICE
Career and Technical Education Academic Division

This program is designed to prepare students for various careers within the field of criminal justice.

Associate of Applied Science Degree

Salary: $48,870-$72,370/year (Nevada)

Career Outlook: Average growth

Good To Know: Emphasis on public safety and security may lead to new openings; jobs will be competitive because of low turnover rate.

Total Requirements: 60 units
Program Requirements 36 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 101*</td>
<td>Introduction to Criminal Justice I</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 102*</td>
<td>Introduction to Criminal Justice II</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 106*</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 155</td>
<td>Juvenile Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 164</td>
<td>Principles of Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 211*</td>
<td>Police in America</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 222*</td>
<td>Criminal Law and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 234*</td>
<td>Introduction to Courts/American Legal System</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 225</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 270</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Requirements</td>
<td>36</td>
</tr>
</tbody>
</table>

Choose 6 units from the following:

Any CRJ course 1-6
ART 135 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
STA 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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement: Recommend ENG 101 and 102</td>
<td>6</td>
</tr>
<tr>
<td>Humanities Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement: Recommended: MATH 120* or higher</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

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

CRIMINAL JUSTICE - Suggested Course Sequence

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>CRJ 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
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<td></td>
<td>Humanities</td>
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<tr>
<td></td>
<td>Math Course</td>
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</tr>
<tr>
<td>SECOND SEMESTER</td>
<td>CRJ 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 225</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 155</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 164</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 102</td>
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</tr>
<tr>
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<td>CRJ 211</td>
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</tr>
<tr>
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<td>CRJ 224</td>
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<td>Science Requirement</td>
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<tr>
<td>FOURTH SEMESTER</td>
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</tr>
<tr>
<td></td>
<td>CRJ 270</td>
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<td>General Elective</td>
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<td></td>
<td>Program Elective</td>
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</tr>
<tr>
<td></td>
<td>U.S./Nev. Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>

College on your time & schedule

EARN THIS DEGREE ONLINE
CRIMINAL JUSTICE
Certificate of Achievement

Designed for students or current peace officers seeking to advance their future in criminal justice. Students will gain knowledge and skills to obtain employment in various criminal justice occupations. Current peace officers can apply for Intermediate and Advanced POST certificates at an accelerated rate.

Total Requirements: 30 Units

Program Requirements 24 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 101</td>
<td>Introduction to Criminal Justice I</td>
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</tr>
<tr>
<td>CRJ 102</td>
<td>Introduction to Criminal Justice II</td>
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</tr>
<tr>
<td>CRJ 103</td>
<td>Communication Within the Criminal Justice Field</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 164</td>
<td>Principles of Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 166 or CRJ 211</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 211</td>
<td>Police in America</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 222</td>
<td>Criminal Law and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 225</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 270</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements 6 Units

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

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

CRIMINAL JUSTICE - Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td>CRJ 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 103</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 222</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 164</td>
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<td></td>
<td>English Course</td>
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<table>
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<tr>
<th>SECOND SEMESTER</th>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>CRJ 106 or CRJ 211</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 225</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CRJ 270</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematics Course</td>
<td>3</td>
</tr>
</tbody>
</table>
DEAF STUDIES

Career and Technical Education Academic Division

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

DEAF STUDIES
Associate of Applied Science Degree

Salary: $29,220-$50,620/year (Nevada)

Career Outlook: Faster than average growth. Demand is expected to increase due in part to laws requiring that services be made available to the deaf.

Good To Know: Interpreters work in schools, public agencies and health care facilities.

Total Requirements: 60 units

Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 140**</td>
<td>American Sign Language I/II</td>
<td>6</td>
</tr>
<tr>
<td>AM 141**</td>
<td>American Sign Language III/IV</td>
<td>6</td>
</tr>
<tr>
<td>AM 149</td>
<td>American Sign Language V</td>
<td>4</td>
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<tr>
<td>AM 150</td>
<td>American Sign Language VI</td>
<td>4</td>
</tr>
<tr>
<td>AM 151</td>
<td>Fingerspelling I</td>
<td>1</td>
</tr>
<tr>
<td>AM 152</td>
<td>Fingerspelling II</td>
<td>1</td>
</tr>
<tr>
<td>AM 253</td>
<td>Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>AM 254</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>AM 215</td>
<td>Conversational ASL</td>
<td>4</td>
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<tr>
<td>AM 216</td>
<td>Receptive ASL</td>
<td>4</td>
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</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>AM 215</td>
<td>4</td>
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<tr>
<td>Mathematics Requirement</td>
<td>AM 151</td>
<td>4</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>AM 150</td>
<td>4</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>AM 152</td>
<td>4</td>
</tr>
<tr>
<td>Science Course</td>
<td>AM 216</td>
<td>4</td>
</tr>
<tr>
<td>English/Communications Requirement</td>
<td>AM 151</td>
<td>4</td>
</tr>
<tr>
<td>Math Course</td>
<td>AM 215</td>
<td>4</td>
</tr>
<tr>
<td>U.S./Nev. Constitution</td>
<td>AM 150</td>
<td>4</td>
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<tr>
<td>General Elective (Theatre 105 recommended)</td>
<td>AM 152</td>
<td>4</td>
</tr>
</tbody>
</table>

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

DEAF STUDIES – INTERPRETING
Certification Preparation

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST</td>
<td>AM 140</td>
<td>6</td>
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<tr>
<td>AM 151</td>
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<td></td>
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<tr>
<td>AM 254</td>
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<td></td>
</tr>
<tr>
<td>English/Comm. Course</td>
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<td></td>
</tr>
<tr>
<td>Human Relations Course</td>
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<td></td>
</tr>
<tr>
<td>SECOND</td>
<td>AM 140*</td>
<td>6</td>
</tr>
<tr>
<td>AM 152</td>
<td>1</td>
<td></td>
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<tr>
<td>AM 253</td>
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<tr>
<td>English/Comm. Course</td>
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<tr>
<td>Hum./ Soc. Science Course</td>
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<tr>
<td>THIRD</td>
<td>AM 141**</td>
<td>6</td>
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<td>AM 254</td>
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<td>Hum./ Soc. Science Course</td>
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<tr>
<td>FOURTH</td>
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<td>General Elective</td>
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<td>(Theatre 105 Recommended)</td>
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<tr>
<td>SCIENCE COURSE</td>
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</tr>
</tbody>
</table>

AMERICAN SIGN LANGUAGE
Certificate of Achievement

Designed to develop skills in American Sign Language to provide students with a strong foundation to enter professions that provide services to the deaf or hard-of-hearing people.

Total Requirements: 30 units

Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AM 140*</td>
<td>American Sign Language I/II</td>
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</tr>
<tr>
<td>AM 141**</td>
<td>American Sign Language III/IV</td>
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<tr>
<td>AM 151</td>
<td>Fingerspelling I</td>
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<td>AM 152</td>
<td>Fingerspelling II</td>
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<td>Any other AM course</td>
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General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>U.S. and Nevada Constitution Requirement</td>
<td>AM 215</td>
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<td>Mathematics Requirement</td>
<td>AM 151</td>
<td>4</td>
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<td>Science Requirement</td>
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<tr>
<td>Human Relations Requirement</td>
<td>AM 152</td>
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<tr>
<td>Science Course</td>
<td>AM 216</td>
<td>4</td>
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<tr>
<td>English/Communications Requirement</td>
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<td>U.S./Nev. Constitution</td>
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<tr>
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<td>AM 152</td>
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</tr>
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</table>

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

NOTE:
*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

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FIRST</td>
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<td>AM 151</td>
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<td>AM 254</td>
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<td>Human Relations Course</td>
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<tr>
<td>SECOND</td>
<td>AM 140*</td>
<td>6</td>
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<tr>
<td>AM 152</td>
<td>1</td>
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<td>AM 253</td>
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<tr>
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<tr>
<td>THIRD</td>
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<td>AM 254</td>
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<td>English/Comm. Course</td>
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<td>FOURTH</td>
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<tr>
<td>SCIENCE COURSE</td>
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DEAF STUDIES – INTERPRETING

Certification Preparation

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
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<tr>
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<td>AM 216</td>
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<tr>
<td>THIRD</td>
<td>AM 203</td>
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</table>

DEAF STUDIES - Suggested Course Sequence

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<table>
<thead>
<tr>
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<tbody>
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<td>AM 151</td>
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<td>Human Relations Course</td>
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<tr>
<td>SECOND</td>
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<td>AM 152</td>
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<td>AM 253</td>
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</tr>
<tr>
<td>THIRD</td>
<td>AM 141**</td>
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<td>4</td>
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<tr>
<td>AM 215</td>
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<td></td>
</tr>
<tr>
<td>General Elective</td>
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<td></td>
</tr>
<tr>
<td>(Theatre 105 Recommended)</td>
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<td></td>
</tr>
<tr>
<td>SCIENCE COURSE</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

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

Student Learning Outcomes: Upon completing the Deaf Studies Associate of Applied Science degree, students will be able to:

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

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

Total Requirements: 30 credits
Subject Requirements: 21 Units
- ECE 121 Parent Care Relations 1
- ECE 122 Observation Skills 1
- ECE 129 Environment for Infant & Toddler 1
- ECE 204 Principles of Child Guidance 3
- ECE 231 Preschool Practicum: Early Childhood Lab 3
- ECE 250 Introduction to Early Childhood Education 3
- ECE 251 Curriculum in Early Childhood Education 3
- HDFS 201 Life Span Human Development 3

Choose 1-3 credits from related courses in any of the following subject areas:
- Early Childhood Education, Psychology, Human Development & Family Studies 3

General Education Requirements: 9 Units
- English/Communications Requirements: Recommended: BUS 108
  - Must include a writing course 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

Completing a two-year degree prepares students for Praxis Exams required for entrance to a four-year education program or working as a paraprofessional in the education setting. Upon completion of a bachelor’s degree students can receive certification/licensing from the state as a practicing teacher, which could lead, in addition to public school teaching, to a career in private or parochial schools. Students can also become a professional/teacher’s aide or a substitute teacher.

NEVADA STATE COLLEGE PARTNERSHIP

Bachelor of Arts in Elementary 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.

Information . . . . . . 775-445-4247
GRAPHIC COMMUNICATIONS
Associate of Applied Science Degree

Salary: $29,070-$46,220/year (Nevada)
Career Outlook: Average growth.
Good To Know: Opportunities are highest for graphic designers with knowledge and training in website design and animation.

Total Requirements: 60 units
Program Requirements 42 Units
ART 100 Visual Foundations 3
ART 101 Drawing I 3
GRC 103 Intro to Computer Graphics 3
GRC 109 Color and Design 3
GRC 144 Electronic Layout and Typography 3
GRC 156 Design with Illustrator 3
GRC 175 Web Design I 3
GRC 179 Multimedia Design & Production 3
GRC 183 Design with Photoshop 3
GRC 188 Web Animation I 3
GRC 275 Web Design II 3
GRC 283 Electronic Imaging 3
GRC 294 Professional Portfolio 3

Choose 3 units from the following:
ART 124 Beginning Printmaking 3
ART 135 Photography I 3
ART 141 Introduction to Digital Photography I 3
ART 160 Art Appreciation 3
ART 211 Ceramics I 3
ART 216 Sculpture I 3
ART 231 Painting I 3
ART 245 Digital Media 3
ART 260 Survey of Art History I 3
ART 261 Survey of Art History II 3

General Education Requirements 18 Units
English/Communications Requirement 6
Human Relations Requirement: PSY or SOC recommended 3
Mathematics Requirement 3
Science Requirement 3
U.S. and Nevada Constitution Requirements 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.

Associate Of Applied Science - Graphic Communications - Mission & Outcomes
Mission: The Associate of Applied Science degree in Graphic Communications will provide employment-related knowledge and skills necessary to succeed in the graphic communications 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 Communications graduates are expected to:
• Apply technical skills in current design technologies.
• Identify and apply design concepts.
• Develop a portfolio of work demonstrating design skills
• The combination of student learning outcomes for this program and general education prepares students to meet the WNC Institutional Student Learning Outcomes.

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

FIRST SEMESTER Completed
ART 100 3
ART 101 3
GRC 103 3
GRC 109 3
General Ed Courses 3
SECOND SEMESTER Completed
GRC 144 3
GRC 156 3
GRC 183 3
General Ed Courses 6
THIRD SEMESTER Completed
GRC 175 3
GRC 188 3
GRC 283 3
General Ed Courses 6
FOURTH SEMESTER Completed
GRC 179 3
GRC 275 3
GRC 294 3
General Ed Courses 3
Program Elective 3

College on your time & schedule
EARN THIS DEGREE ONLINE
GRAPHIC COMMUNICATIONS
Certificate of Achievement

Prepares students 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.

Total Requirements: 30 units
Program Requirements: 21 Units

- ART 100 Visual Foundations 3
- GRC 103 Intro to Computer Graphics 3
- GRC 109 Color and Design 3
- GRC 144 Electronic Layout and Typography 3
- GRC 156 Design with Illustrator 3
- GRC 175 Web Design and Publishing I 3
- GRC 183 Design with Photoshop 3

General Education Requirements: 9 Units
- English/Communications Requirements: writing course required 3
- Human Relations Requirement: PSY or SOC recommended 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.
MACHINE TOOL TECHNOLOGY
Career and Technical Education Academic Division

This program provides competency-based training for students who are interested in working in the machine trades field as a machinist, CNC programmer or machine operator. Hands-on learning is a focus of the courses students take in this industrial technology specialization.

MACHINE TOOL TECHNOLOGY
Associate of Applied Science - Technology Degree

Salary: $32,860-$50,580/year (Nevada)
Career Outlook: Average growth. Jobs available due to difficulty finding skilled workers.
Good To Know: Often work with computer numerical control (CNC) machines.

Total Requirements: 60 units
Program Requirements 36 Units
DFT 110 Blueprint Reading For Industry 3
MTT 105 Machine Shop II 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, Must include a writing course 6
Human Relations: Recommended: BUS 110 3
Humanities/Social Science Requirements 3
Mathematics Requirement: Recommended: MATH 110 3
Science Requirement 3
U.S. and Nevada Constitution Requirement 3
General Elective 3

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

Associate of Applied Science - Technology - Mission & Outcomes
Mission: The purpose of the Associate of Applied Science Degree in Technology is to provide employment-related knowledge and skills necessary to succeed in a chosen field of study.
Student Learning Outcomes: Students who complete programs in occupational areas are expected to demonstrate that they:
• Know the subject matter appropriate to the emphasis of the degree.
• Are able to:
  - Communicate effectively and appropriately, in oral and written form.
  - Locate, evaluate and properly utilize the tools and resources appropriate to a technology professional.
  - Acquire skills and perform tasks necessary for employment or career enhancement.
• Have developed:
  - An appreciation of the importance of social, ethical, legal and diversity issues.
  - An appreciation of the need and importance of lifelong learning.

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

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<td>MTT 251</td>
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<td>Program Elective</td>
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<td>3-4 ☐</td>
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<tr>
<td>U.S./Nevada Constitution</td>
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</tbody>
</table>

www.wnc.edu • FALL 2018 - SUMMER 2019 • Western Nevada College Academic Program Guide
MACHINE TOOL TECHNOLOGY
Certificate of Achievement

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

Total Requirements: 30 units

Program Requirements
- 20 Units
  - DFT 110 Blueprint Reading For Industry 3
  - or CONS 120 Blueprint Reading and Specification
  - 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
  - Related machine shop courses 3

General Education Requirements
- 10 Units
  - English/Communications Requirements: Recommended: BUS 108;
    - Must include a writing course 6
  - Human Relations Requirement 1
  - Mathematics Requirement: MATH 110 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.

MACHINE TOOL TECHNOLOGY - Suggested Course Sequence

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<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>MTT 230</td>
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<tr>
<td>MTT Elective</td>
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The National Institute for Metalworking Skills (NIMS) offers various levels of certification in machining.

Level 1: Chucking, Surface Grinding and Milling
- MTT 105 Machine Shop I 3
- MTT 110 Machine Shop II 3
- MTT 250 Machine Shop III 3

Level 3: Measurement
- MTT 230 Computer Numerical Control I 4
- MTT 232 Computer Numerical Control II 4
- MTT 260 Machine Shop IV 3

Third-party industry-recognized credentials can be earned throughout the program. A fee is associated with most exams.
NURSING & ALLIED HEALTH
Career and Technical Education Academic Division

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

A limited number of qualified students are admitted as first semester students utilizing the selection criteria outlined on the next page. The nursing program requires that pre-and 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.

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

<table>
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<td>GPA</td>
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<td>2.5-2.99</td>
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<td>(pre- and corequisite courses)</td>
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<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
</tbody>
</table>

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

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

Nevada Resident: An applicant who is classified as a Nevada resident for tuition purposes at Western Nevada College at the time of application to the nursing program will be awarded one (1) point in the nursing admissions selection criteria. Maximum Possible Points: 17

Associate Of Applied Science - Nursing - Mission & Outcomes

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

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

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

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

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

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

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

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

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

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

Other Important Information

- Nursing learning activities are scheduled on and off campus on days, evenings and weekends.
- Course organization requires students to have basic computer skills, including the ability to navigate various online learning programs.
- Clinical experiences take place at long-term health care facilities, acute care hospitals, clinics and day care centers.
- A grade of C (75 percent) or better is required in all nursing courses to continue in the nursing program. A grade of C- or lower will not be accepted.
- Students not admitted to the nursing program must reapply to be considered for admission the following year.
- Nursing students are expected to meet the Nursing Student Essential Abilities as discussed on the nursing Web page.

- Documentation and currency of the following is required after acceptance into the nursing program and prior to the start of classes:
  - An acceptable physical examination and required immunizations and tests.
  - CPR certification (card required) through the American Heart Association (Basic Life Support) or the American Red Cross (Healthcare Provider).
  - Major medical health insurance (card required).
  - An acceptable background check.

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

Drug screening may also be required by clinical sites. Students will be informed of the requirement when necessary.
NURSING
Associate of Applied Science Degree

Salary: $61,860-$83,940/year (Nevada)
Career Outlook: High growth, especially in home health care and nursing homes.
Good To Know: Hospital nurses tend to earn more than nurses in doctors’ offices; may include working days, nights, weekends or holidays.

Total Requirements: 71.5 units

Prerequisite Courses* 21 Units

- CHEM 121 General Chemistry I 4
- or BIOL 190 Introduction to Cell and Molecular Biology and BIOL 190L Introduction to Cell and Molecular Biology-Lab
- BIOL 223* Human Anatomy and Physiology I 4
- BIOL 224* Human Anatomy and Physiology II 4
- ENG 101 Composition I 3
- or MATH 120 Fundamentals of College Mathematics 3
- or MATH 126 Precalculus I

*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 129 or NURS 130 required within five years of the date of application to the nursing program is a required prerequisite.

Corequisite (Non-Nursing) Courses 10 Units

- BIOL 251 General Microbiology 4
- EN 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 190/190L, 223, 224 and 251 fulfills the science general education requirement for the Associate of Applied Science degree in Nursing.

First Year: Fall Semester Courses 10 Units

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

First Year: Spring Semester Courses 11 Units

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

Second Year: Fall Semester Courses 9 Units

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

Second Year: Spring Semester 10.5 Units

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

Note: The sequence of some courses in the second year for fall and spring semesters may be altered.
Certified Nursing Assistant - Certification Preparation

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

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

Emergency Medical Services - Certification Preparation

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

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

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

Laboratory Technician-Phlebotomy - Certification Preparation

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

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

NOTE: These courses have mandatory admission requirements. See the Nursing & Allied Health web pages for required immunizations, tests, major medical insurance and CPR certification. This information must be provided to the Nursing & Allied Health Office before permission to enroll in the course is granted. Information regarding how to submit information required to qualify for enrollment into these courses is available on the Nursing & Allied Health web pages. Students are eligible to register after all required information is received by the Nursing & Allied Health Office.
WELDING
Associate of Applied Science - Technology Degree

Salary: $27,220-$47,070/year (Nevada)
Career Outlook: Average Growth
Good To Know: Certification required for many jobs; most welding positions will be available in manufacturing facilities that produce or assemble metal parts or products.

Total Requirements: 60 units

Program Requirements

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Choose 1-12 units from the following program electives:

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<td>ET 131</td>
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<td>WELD</td>
<td>1–3</td>
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General Education Requirements

- 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

FIRST SEMESTER Completed
- WELD 211 3
- WELD 212 2
- English Course 3
- DFT 110 3
- Program Elective 1–3
- WELD 221 3
- WELD 222 2

SECOND SEMESTER Completed
- English Course 3
- Mathematics Course 3
- DFT 110 3
- Program Elective 1–3
- WELD 221 3
- WELD 222 2

THIRD SEMESTER Completed
- WELD 231 3
- WELD 232 2
- General Elective 3–5
- Science Course 3
- Program Elective 3–5
- U.S./Nevada Constitution 3

FOURTH SEMESTER Completed
- WELD 241 3
- WELD 242 2
- WELD 250 4
- Program Elective 3–5

Associate of Applied Science - Technology - Mission & Outcomes

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

Student Learning Outcomes: Students who complete programs in occupational areas are expected to demonstrate that they:

- Know the subject matter appropriate to the emphasis of the degree.
- Are able to:
  - Communicate effectively and appropriately, in oral and written form.
  - Locate, evaluate and properly utilize the tools and resources appropriate to a technology professional.
- Have developed:
  - An appreciation of the importance of social, ethical, legal and diversity issues.
  - An appreciation of the need and importance of lifelong learning.

American Welding Society Accreditation

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

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

The college offers a number of non-credit programs and services to educate WNC students, graduates, employers and the general public. Register/View classes at: www.campusce.net/wnc

Community Education

Community Education offers non-credit, self-supporting, classes that enrich the cultural, social and recreational life of the community. These may include special interest courses, field trips and workshops.

The department also sponsors College for Kids, an educational enrichment program to challenge youth and offer learning experiences.

www.wnc.edu/continuing-education/

Economic Development

Western Nevada College provides educational opportunities and training solutions for business, industries and government or non-profit agencies. Topics include supervisory training, industrial safety, hospitality and customer service. Education and training for credit or non-credit can be delivered on-site or at WNC locations.

www.wnc.edu/continuing-education/economic-development/

Driver Education

New drivers can prepare for the challenges of driving (and driver license testing) in the Western Nevada College Driver Education Program. The non-credit course meets for 30 hours of classroom training and is open to students age 15 and older.

www.wnc.edu/continuing-education/

Motorcycle Safety

The Motorcycle Safety program offers Basic Rider, Experienced Rider and Advanced Rider courses using curriculum from the Motorcycle Safety Foundation. Students who successfully complete the Basic Rider course receive certification that allows them to receive a Class M endorsement from the Nevada Department of Motor Vehicles. Experienced Rider and Advanced Rider courses are for riders who are looking to refresh or further develop their skills. The program operates April through October and is open to those possessing a Class C permit or license.

www.wnc.edu/continuing-education/

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
E-mail .......................................................................... ann.louhela@wnc.edu

www.wnc.edu/sci/

INFORMATION

Carson City: 445-4423
Fallon: 423-7565
Take 15 credits each semester to graduate on time, save money and start your career sooner.

Taking 12 credits each semester may qualify you as a full-time student for financial aid, but that course load will not allow you to finish your degree in two or four years.
COLLEGE MISSION

Western Nevada College inspires success in our community through opportunities that cultivate creativity, intellectual growth and technological excellence, in an environment that nurtures individual potential and respects differences.

COLLEGE GOALS

1. STUDENT SUCCESS
   WNC students graduate with a degree or certificate
   WNC students engage in the college experience

2. INSTITUTIONAL EXCELLENCE
   WNC is the educational institution of choice in western Nevada
   All academic programming is of the highest quality
   All support programs & services meet the needs of the WNC community
   WNC has an exemplary system of governance and management
   WNC strives for institutional sustainability

3. ONE COLLEGE SERVING MANY COMMUNITIES
   WNC promotes access to higher education in western Nevada
   WNC serves as a catalyst for personal and community enrichment
   WNC promotes community connections

INFORMATION: 775-445-3000 • www.wnc.edu

WNC does not discriminate on the basis of race, color, national origin, sex, disability, age, gender identity or expression, sexual-orientation, protected veteran status, genetics, or religion in its programs and activities and provides equal access to facilities to all. Inquiries concerning the application of non-discrimination policies may be referred to:
Title IX Coordinator: (775) 445-4231, Western Nevada College, 2201 West College Parkway, Carson City, NV 89703. For further information on notice of non-discrimination, visit http://wdcrobcollp01.ed.gov/CFAPPS/OCR/contactus.cfm for the address and phone number of the office that serves your area, or call 1-800-421-3481. (Rev. 09/16)