How to use the ACADEMIC PROGRAM GUIDE

Western Nevada College is pleased to provide this booklet to help you determine your college program of study. You will find detailed information about the college's academic degrees and programs. The WNC 2010-2011 Catalog is online:

www.wnc.edu/catalog including detailed information about:
  College Calendars
  Course Descriptions
  Enrollment and Records
  Faculty and Administration
  Fees & Costs
  Financial Assistance
  Policies & Procedures
  Rules & Sanctions
  Student Activities
  Student Services

INFORMATION
Contact WNC campuses or teaching centers:
  Carson City – 775-445-3000
  Douglas – 775-782-2413
  Fallon - 775-423-7565
  Fernley – 775-575-3348
  Hawthorne – 775-945-2405
  Lovelock – 775-273-2222
  Smith Valley – 775-465-2332
  Yerington – 775-463-2412

Go to College & Skip the Commute!
WNC Offers Online Degrees/Certificates


For many students, earning a college degree online is the best solution. Western Nevada College offers five associate degrees and one certificate of achievement online, providing affordable access to higher education for students of all ages, no matter where they live or work. Some students choose to complete a degree using a variety of learning modes, including on-campus, interactive video and online classes. See a WNC counselor to choose the schedule that works best.

ONLINE DEGREES/CERTIFICATES
  Associate of Applied Science in Accounting
  Associate of Applied Science in General Business
  Associate of Applied Science in Management
  Associate of Arts (general)
  Associate of General Studies
  Certificate of Achievement in Bookkeeping

ACADEMIC PROGRAMS/DEGREES

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ACADEMIC PROGRAMS

Western Nevada College offers academic degrees and academic programs to meet a variety of educational goals. Some students wish to learn occupational skills or work toward career advancement. Others seek credits which will transfer to a four-year college or university.

A number of one-year certificates are also offered in occupational areas. Students are encouraged to read the specific information about each degree or certificate before making their decisions. Counselors and faculty advisors are also available to provide information on the programs available. See web site: [www.wnc.edu/academics/](http://www.wnc.edu/academics/)

The college offers a bachelor’s degree in the following area:

- **Bachelor of Technology in Construction Management**

Western offers four types of associate degrees in dozens of diverse academic areas:

- **Associate of Applied Science**
- **Associate of General Studies**
- **Associate of Arts**
- **Associate of Science**

OCCUPATIONAL PROGRAMS AND EMPHASSES

WNC offers two-year occupational programs in many areas, allowing students to gain job training and earn an Associate of Applied Science degree.

A Bachelor of Technology degree in Construction Management helps students climb a career ladder from learning basic construction skills all the way to becoming a construction manager.

One-year occupational programs are also offered in a number of areas, allowing students to achieve a Certificate of Achievement.

Students enrolled in any of these programs 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.

TRANSFER PROGRAMS AND EMPHASSES

WNC attracts a large number of students who plan to earn a baccalaureate degree from another four-year college or university. They elect to begin their college education at the community college for many reasons, including lower tuition costs, small class sizes, flexible class times and a comfortable learning environment.

Students who plan to transfer can earn the Associate of Arts or Associate of Science degree. These programs of study can provide the first one or two years of their four-year degrees.

WNC students have transferred to many four-year schools. Students who plan to transfer should work closely with a WNC counselor and also keep in contact with the intended transfer institution.

General Education Mission & Student Learning Outcomes

The general education program is an essential element of all degree programs and certificates of achievement offered at WNC. Faculty completed a review of the purpose of the general education program and developed a list of the 10 things that are critical to the success of WNC graduates. These are referred to as general education student learning outcomes. All courses used to fulfill general education requirements should specify the specific general education student learning outcomes that are relevant to the course.

<table>
<thead>
<tr>
<th>GENERAL EDUCATION - Mission &amp; Outcomes</th>
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<tbody>
<tr>
<td><strong>Mission:</strong> The mission of general education at WNC is to provide students who complete degrees and certificates of achievement with critical life skills that will benefit them in their personal and professional endeavors.</td>
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<tr>
<td><strong>Student Learning Outcomes:</strong> Students who complete a degree at WNC are expected to demonstrate they:</td>
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<tr>
<td>- have college-level skills in reading, writing and oral communication appropriate to their degree and/or emphasis.</td>
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<td>- can use appropriate college-level mathematical skills.</td>
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<td>- have problem solving, creative and critical thinking skills.</td>
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<td>- have effective and efficient learning skills, including the location and evaluation of information.</td>
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<td>- have appropriate technological skills, including computer skills.</td>
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<td>- know the basic principles and processes of government at local, state, national and international levels.</td>
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<td>- understand the methods of science and the role of science and technology in the modern world.</td>
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<td>- understand and apply social science principles, including an appreciation of participation in civic affairs.</td>
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<td>- have an understanding of fine arts or performing arts.</td>
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<tr>
<td>- understand the importance of cultural traditions, diversity and ethics in the modern world.</td>
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</tbody>
</table>

Students completing a certificate of achievement at WNC are expected to demonstrate they:

- have the appropriate communication, computational and human relations skills.
<table>
<thead>
<tr>
<th>Program</th>
<th>Online Degree</th>
<th>Bachelor of Technology Degree</th>
<th>Associate of Applied Science Degree</th>
<th>Associate of Arts Degree</th>
<th>Associate of Science Degree</th>
<th>Certificate of Achievement</th>
<th>Transfer Program Courses</th>
<th>Certification Preparation</th>
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<td>Accounting (Business Emphasis)</td>
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<td>Computer Technology - Computer Networking Technology</td>
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<td>Computer Technology - Network Support Technician</td>
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<td>Criminal Justice - 9-1-1 Dispatch Telecommunications</td>
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<td>Fine Arts (Associate of Arts Emphasis)</td>
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<td>Musical Theatre (Associate of Arts Emphasis)</td>
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* Students may take courses in many other academic areas for transfer; see transfer degree section of this catalog and/or a WNC counselor.

⭐ Degree/certificate available online
Bachelor of Technology
An Applied Baccalaureate Degree in Construction Management

BACHELOR OF TECHNOLOGY - Mission & Outcomes

Mission: The mission of the Bachelor of Technology 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 Division.

Student Learning Outcomes: Upon completing the Construction Management Bachelor of Technology program, students will be able to demonstrate:

- Knowledge in basic economic principals, business principals 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 for planning and scheduling a construction project
- Application of relevant administrative skills, ethics, safety practices, and problem solving techniques to construction management

The Bachelor of Technology degree in Construction Management offers students advanced technical and occupational skills in a formal educational route that will help them progress to supervisory positions within their field. It provides an opportunity for those who have completed an associate degree in an applied technology field to progress academically and earn a bachelor’s degree. It also provides an avenue for those already working in a technical field to enroll in an applicable baccalaureate degree program that will enhance their core and business management skills and offer career advancement opportunities. To learn more about the Bachelor of Technology degree program, please see a WNC counselor. Courses with a number under 100 (such as ENG 095) are not applicable toward a Bachelor of Technology degree at WNC.

Programs and areas of study offered at WNC include:
- Construction Management

BACHELOR OF TECHNOLOGY IN CONSTRUCTION MANAGEMENT DEGREE REQUIREMENTS

REQUIREMENTS: A minimum of 128 credits chosen from the following:

CAPSTONE - 9 credits.
Choose from:
- Communication: 412
- Construction Management: 456
- Economics: 334, 365
- Management: 462, 469

ENGLISH/COMMUNICATIONS REQUIREMENTS - 9–11 credits.
A minimum of 6-8 credits in English and 3 credits in communications.
Choose from:
- Communications:
  - Business: 107, or
  - Communication: 101, 102, 113, 213
- English:
  - English: 100 or 101
  - English: 102

FINE ARTS REQUIREMENT - 3 credits.
Choose from:
- Art: 100, 101, 124, 160, 224, 260, 261
- Dance: 101
- Humanities: 101
- Music: 121, 125, 134
- Music: Ensemble: 101*
- Theatre: 100, 105, 180

HUMANITIES REQUIREMENT - 3 credits.
Choose from:
- Core Humanities: 201, 202
- History: 105, 106, 207, 247
- Philosophy (except for PHIL 102, 105, 114)

MATHEMATICS AND SCIENCE REQUIREMENTS - 15 credits.
A minimum of 5 credits in mathematics and 7 credits in science.
Choose from:
- Mathematics
  - Mathematics: 126 & 127, 128*
  - Statistics: 152
- Science
  - Chemistry: 100, 121
  - Environmental Studies: 100
  - Geology: 100, 101, 103
  - Physics: 100, 151, 180
  - * or higher

SOCIAL SCIENCES REQUIREMENT - 6 credits.
3 credits must be an upper division course (300-400 level, see a counselor).
Lower Division, Choose from:
- Anthropology: 101, 201, 202, 210, 212
- Core Humanities: 203
- Criminal Justice: 101, 102, 220, 230, 270
- Geography: 106, 200
- History: 101, 102, 111, 217, 295
- Journalism: 101
- Political Science: 103, 105, 108, 231, 295, 299
- Psychology (except for PSY 210)
- Social Work: 220
- Sociology (except for SOC 210)

U.S. & NEVADA CONSTITUTION REQUIREMENTS - 3 or 6 credits.
Must meet both requirements. Choose from:
- Core Humanities: 203
- History: 111
- History: 101 & 217
- History: 101 & 102
- Political Science: 103
- History and Political Science Combination (History 101 and Political Science 208)

CORE AND DEGREE REQUIREMENTS -
Number of credits required vary by degree.
Transfer Degrees
Associate of Arts & Associate of Science

ASSOCIATE OF ARTS & ASSOCIATE OF SCIENCE DEGREE - Mission & Outcomes

MISSION: The purpose of the Associate of Arts and Associate of Science degrees is to provide the academic knowledge and skills for successful transfer to meet higher educational goals.

STUDENT LEARNING OUTCOMES: Students who complete either an Associate of Arts or an Associate of Science degree at WNC are expected to demonstrate that they:

- have met the general education student learning outcomes.
- know the subject matter appropriate to the emphasis of the degree.
- can succeed at their transfer institutions.

The Associate of Arts and Associate of Science degrees are primarily for the student who plans to transfer from WNC to a four-year college or university to pursue a baccalaureate degree in liberal arts, sciences, humanities, math or related areas. Every year, large numbers of WNC students successfully transfer to other schools. Each school has its own specific requirements and recommended electives for its various emphases. Community college students who plan to transfer to the University of Nevada, Reno, University of Nevada, Las Vegas or Nevada State College and who did not complete the university entrance requirements in high school, must complete a minimum of 24 transferable credits with a minimum 2.5 grade point average. Students who earn an Associate of Arts or Associate of Science degree will be admitted to an NSHE university or state college regardless of their grade point average.

How WNC Courses Transfer
wnc.edu/academics/catalog/transfer/

DEGREE REQUIREMENTS:
Associate of Arts............................................. page 5
Associate of Science ....................................... page 6

TRANSFER PROGRAMS

WNC students may select a course of study which enables them to complete some or all of the lower division requirements for a four-year degree from the list of transfer programs at UNR, UNLV, NSC or other schools. Recent surveys of WNC students show they have transferred to colleges throughout the country including: UNR; UNLV; Nevada State College; Southern Utah University; University of New Mexico; Arizona State University; California State University, Sacramento; University of California at Berkeley; Truckee Meadows Community College; University of Phoenix; Cosumnes River College-Los Rios; Lake Tahoe Community College; Great Basin College and Salt Lake Community College.

Programs and areas of study offered at WNC include:
• Nevada State College Teacher Education Partnership

Please contact counselors or faculty advisers for major-to-major transfer agreements for the following programs:

Accounting
Agriculture
Animal Science
Anatomy
Anthropology
Architecture
Astronomy
Atmospheric Sciences
Biochemistry
Biology
Business
Chemistry
Chemical Engineering
Civil Engineering
Communication Arts
Communicative Disorders
Computer Engineering
Computer Science
Criminal Justice
Dance
Dental Hygiene
Pre-Dentistry
Drama

Early Childhood Education
Economics
Education
Electrical Engineering
English
Environmental Science
Finance
Fish/Wildlife Management
Foreign Languages
General Studies
Geography
Geology
Geological Engineering
History
Hotel Administration
Humanities
Industrial Arts
Industrial Education
Information Systems
Journalism
Pre-Law
Liberal Arts
Pre-Librarianship

Literature
Management
Marketing
Mathematics
Pre-Medicine
Mechanical Engineering
Metallurgical Engineering
Meteorology
Mining Engineering
Motion Picture and Cinema
Multicultural (Ethnic) Studies
Music
Natural Resources
Nursing
Occupational Therapy
Oceanography
Pre-Optometry
Pre-Pharmacy
Philosophy
Physician Assistant
Physical Education
Pre-Physical Therapy

Physiology
Physics
Political Science
Psychology
Public Administration
Public Relations
Radiologic Technology
Recreation
Religious Studies
Social Science
Social Welfare/ Social Work
Sociology
Special Education
Speech Communication
Theatre Arts
Urban Planning
Pre-Veterinary Medicine
Vocational Education
Zoology
The Associate of Arts degree is primarily for students planning to transfer with junior standing to a four-year college or university for a baccalaureate degree. If the University of Nevada, Reno is the intended transfer school, choose ONLY those courses that are marked with a "^" from the list below. Satisfactory completion of an AA degree guarantees completion of the lower division general education requirements at UNR, UNLV or NSC. Students intending to transfer to other schools should see a counselor or follow the catalog of the transfer school. Courses with a "B" after the course number (such as MATH 100B) and courses with a number under 100 (such as ENG 095) are not applicable toward the Associate of Arts degree. All courses to be counted toward this degree must be university transferable. A maximum of six credits of special topics classes in one subject area may apply toward any WNC degree.

**ASSOCIATE OF ARTS DEGREE REQUIREMENTS**

**REQUIREMENTS:** A minimum of 60 credits chosen from the following:

**NOTE:** Choose courses marked with ^ for core curriculum transfer courses if intending to transfer to UNR.

**ENGLISH/COMMUNICATIONS REQUIREMENTS - 6–8 credits.**

**WNC and UNR**

- English: 100^ or 101^, 102^  
- WNC: Choose one course from each UNR group.
  - Core Humanities: 201^  
  - English: 231^  
  - History: 105^  
  - Philosophy: 200^  

**FINE ARTS REQUIREMENT - 3 credits.**

**WNC and UNR**

- Art: 100^, 101^, 124, 160^, 224, 260^, 261^  
- Dance: 101^  
- Humanities: 101^  
- Music: 121^, 125, 134  
- Music Ensemble: 101^  
- Theatre: 100^, 105^, 180^  

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

**HUMANITIES REQUIREMENT - 6 credits.**

**UNR: Group A**

- Core Humanities: 201^  
- English: 231^  
- History: 105^  
- Philosophy: 200^  

**UNR: Group B**

- Core Humanities: 202^  
- English: 232^  
- History: 106^  
- Philosophy: 207^  

**WNC**

- Core Humanities: 201^, 202^  
- English: 200, 223, 231^, 232^, 250, 261, 266, 267, 271, 275  
- History: 105^, 106^, 207, 247  
- Philosophy (except for PHIL 102, 114)  

* These courses will not fulfill UNR's CH 201 and/or CH 202 requirement, if taken after the student has been admitted and enrolled at UNR.

**MATHEMATICS REQUIREMENT - 3 credits.**

- Statistics: 152^  

**SCIENCE REQUIREMENT - 6 credits.**

**WNC: Choose from Group A and/or Group B. At least one lab science course recommended.**

**UNR: Choose UNR transfer courses and at least one course from Group A.**

**Group A**

- Biology: 100^, 113, 190^ & 190L^, 191^ & 191L^, 200  
- Chemistry: 100^, 121^, 122^  
- Geology: 100^, 101^, 102, 103^, 105, 127, 132, 201  
- Physics: 100^, 151^, 152^, 180^ & 180L^, 181^ & 181L^, 182^ & 182L^  

**Group B**

- Anthropology: 102^, 102^ & 110L^  
- Astronomy: 109^, 110^, 120  
- Atmospheric Sciences: 117^  
- Environmental Studies: 100^  
- Geography: 103^, 104  
- Nutrition: 121^, 223  

**SOCIAL SCIENCES REQUIREMENT - 9 credits.**

* WNC: Choose from the following list. Must include work in two or more subject areas.
- Anthropology: 101^, 201^, 202^, 210, 212  
- Core Humanities: 203  
- Criminal Justice: 101, 102, 220, 230, 270  
- Economics: 100^, 102^, 103^  
- Geography: 106^, 200^  
- History: 101, 102, 111, 217, 295  
- Journalism: 101  
- Political Science: 103, 105, 108, 208, 231^, 295, 299  
- Psychology (except for PSY 210)  
- Social Work: 220  
- Sociology (except for SOC 210)  

* Number of credits required may vary according to specific emphasis. See a counselor.

**U.S. & NEVADA CONSTITUTION REQUIREMENTS - 3 or 6 credits.**

*Must meet both requirements. Choose from:*

- Core Humanities: 203^  
- History: 111^  
- History: 101^ & 102^  
- History: 101^ & 217^  
- Political Science: 103^  
- History and Political Science Combination (History 101 *, and Political Science 208 *)  

* These courses will not fulfill UNR’s CH203 requirement if taken after the student has been admitted and enrolled at UNR.

**EMPHASIS REQUIREMENTS, PROGRAM REQUIREMENTS, OR GENERAL ELECTIVES - 21–24 credits.**

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.
The Associate of Science degree is designed to help students use the methods of observation, special analysis and logic by which we understand the mathematical, biological and physical nature of the world. The AS degree allows early choices for those planning a professional life in mathematics, science, engineering, medicine or agriculture. The AS degree is primarily for the student who plans to transfer with junior standing to a four-year college or university for a baccalaureate degree. If the University of Nevada, Reno is the intended transfer school, choose ONLY those courses that are marked with a "^" from the list below. Satisfactory completion of an AS degree guarantees completion of the lower division general education requirements at UNR, UNLV or NSC. Students intending to transfer to other schools should see a counselor or follow the catalog of the transfer school. Courses with a "B" after the course number (such as MATH 100B) and courses with a number under 100 (such as ENG 95) are not applicable toward this degree. All courses counted toward this degree must be university transferable. A maximum of six credits of special topics classes in one subject area may apply toward any WNC degree.

Note: UNR transfer information is based on requirements for the 2009-2010 school year. These requirements may change in subsequent years. See a counselor for the most up-to-date information.

This degree requires the selection of one of the following areas of study:

- Biological Sciences
- Chemistry
- Computer Science
- Engineering Science

NOTE: Students seeking other areas of study should select the Associate of Arts degree.

### ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

**REQUIREMENTS:** A minimum of 60 credits chosen from the following:

**NOTE:** Choose courses marked with ^ for core curriculum transfer courses if intending to transfer to UNR.

#### ENGLISH/COMMUNICATIONS REQUIREMENTS-6–8 credits.

**WNc and UNR**

- English: 100^ or 101^, 102^

#### FINE ARTS REQUIREMENTS-3 credits.

**WNc and UNR**

- Art: 100^, 101^, 124, 160^, 224, 260^, 261^
- Dance: 101
- Humanities: 101^
- Music: 121^, 125, 134
- Music: Ensemble: 101^*
- Theatre: 100^, 105^*, 180^*
* Course may not meet the Fine Arts requirement at all universities. Please see a counselor.

#### HUMANITIES REQUIREMENTS-6 credits.

**UNR:** Choose one course from each UNR group:

**UNR Group A**

- Core Humanities: 201^*
- English: 231^*
- History: 105^
- Philosophy: 200^*

**UNR Group B**

- Core Humanities: 202^*
- English: 232^*
- History: 106^*
- Philosophy: 207^*

WNc: Choose From:

- Core Humanities: 201^, 202^*
- English: 200, 223, 231^, 232^, 250, 261, 266, 267, 271, 275
- History: 105^, 106^, 207, 247
- Philosophy (except for PHIL 102, 114)
  * These courses will not fulfill UNR's CH 201 and/or CH 202 requirement, if taken after the student has been admitted and enrolled at UNR.

#### MATHEMATICS REQUIREMENTS-12 credits.

**WNc:** Choose only for geosciences emphasis. Math requirements already fulfilled for other emphases.

- Mathematics: 126, 127, 128^, 176^, 181^, 182^, 283, 285, 126^&127^ (Must be taken together for UNR)
- Statistics: 152^*

**SCIENCE REQUIREMENTS-6 or 12 credits.**

WNc: Choose 12 credits for math emphasis. Science requirements are already fulfilled for other emphases. UNR: Choose 6 credits, with at least one course from Group A.

**Group A:**

- Biology: 100^, 190^ & 190L^, 191^ & 191L^, 200
- Chemistry: 100^, 121^, 122^*
- Geology: 100^, 101^, 103^, 105
- Physics: 100^, 151^, 152^, 180^ & 180L^, 181^ & 181L^, 182^ & 182L^*

**Group B:**

- Anthropology: 102^, 102^ & 110L^*
- Astronomy: 109^, 110^, 120
- Atmospheric Sciences: 117^*
- Environmental Studies: 100^*
- Geography: 109^, 104

#### SOCIAL SCIENCES REQUIREMENTS-6 credits.

- Anthropology: 101^, 201^, 202^, 210, 212
- Core Humanities: 203
- Criminal Justice: 101, 102, 220, 230, 270
- Economics: 100^, 102^, 103^*
- Geography: 106^, 200
- History: 101, 102, 111, 217, 295
- Journalism: 101
- Political Science: 103, 105, 108, 208, 231^, 295, 299
- Psychology: 101^, 102, 130, 233, 234, 240, 241, 261, 290, 299
- Social Work: 220
- Sociology: 101^, 102, 202, 205, 261, 275

#### U.S. & NEVADA CONSTITUTION REQUIREMENTS-3 or 6 credits.

Must meet both requirements. Choose from:

- Core Humanities: 203^*
- History: 111^*
- History: 101^* & 102^*
- Political Science: 103^*
- History and Political Science Combination (History 101 *, and Political Science 208 *)
  * These courses will not fulfill UNR's CH 203 requirement if taken after the student has been admitted and enrolled at UNR.

#### EMPHASIS REQUIREMENTS, PROGRAM REQUIREMENTS, AND ELECTIVES

Number of credits varies according to emphasis and can be found on the program of study pages under emphasis requirements.
ASSOCIATE OF APPLIED SCIENCE - Mission and Outcomes

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 general education 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.

Students enrolled in any of these programs 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. The Associate of Applied Science degree is designed for those students who desire a two-year course of study and training in an occupational and/or technological career field. Although the AAS degree is not designed to be a transfer program, some of the courses will transfer to four-year colleges or universities. Those students who wish to transfer to a four-year school should consult a WNC counselor. Coursework must total at least 60 credits. Courses with a number under 100 (such as ENG 095) are not applicable toward an Associate of Applied Science degree at WNC. Courses with a “B” designator after the number (such as MATH 100B) are college level courses which may apply toward a WNC degree but which may not transfer to UNR or UNLV. In some cases, these courses may 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. A maximum of six credits of special topics classes in one subject area may apply toward any WNC degree. To make decisions about specific emphases under the Associate of Applied Science degree, please refer to the academic programs pages or see a WNC counselor.

Note: All Associate of Applied Science degree and certificate programs require completion of appropriate courses in computation, communication and human relations. Additionally, introductory courses in all applied science and technology as well as all allied health programs include instruction in safety, industrial safety and environmental awareness, as appropriate. Students with previous occupational or practical experience may be eligible to challenge certain course requirements and prerequisites.

Programs and areas of study offered at WNC include:

• Accounting
• Automotive Mechanics
• Business, General Business Emphasis
• Computer Technology - Computer & Office Technology
• Computer Technology - Information Technology
• Computer Technology - Computer Networking Technology
• Construction Technology, Construction Project Management
• Criminal Justice
• Criminal Justice, Law Enforcement/Academy
• Drafting Technology - Architectural
• Drafting Technology - Civil
• Drafting Technology - Mechanical
• Early Childhood Education
• Geographic Information Systems (GIS)
• Graphic Communications
• Machine Tool Technology
• Management
• Nursing
• Real Estate
• Welding Technology
ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS

REQUIREMENTS: A minimum of 60 credits chosen from the following:

ENGLISH/COMMUNICATIONS REQUIREMENT - 6 credits.
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 or any other 200 level English class)

HUMAN RELATIONS REQUIREMENT - 3 credits.
Anthropology: 101, 201
Business: 110B, 287B
Counseling and Personal Development: 117, 129B
Criminal Justice: 270
Early Childhood Education: 121
Human Development & Family Studies: 201, 202
Law: 263
Management: 201, 212, 283
Psychology (except for PSY 210)
Sociology (except for SOC 210)

HUMANITIES/SOCIAL SCIENCE REQUIREMENTS - 3 credits.
Choose from either humanities or social science areas:

Humanities Area:
Art: 100, 101*, 124, 160, 224, 260, 261
Core Humanities: 201, 202
Dance: 101
English: 200, 221, 223, 231, 232, 250, 261, 266, 267, 271, 275
History: 105, 106, 207, 247
Humanities: 101
Music: 111*, 121, 125, 134
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 Area:
Anthropology: 101, 201, 202, 210, 212
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
Journalism: 101
Political Science
Psychology (except for PSY 210)
Social Work: 220
Sociology (except for SOC 210)

MATHEMATICS REQUIREMENT - 3 credits.
Business: 109B
Economics: 261, 262
Mathematics
Psychology: 210
Real Estate: 102B
Sociology: 210
Statistics: 152

SCIENCE REQUIREMENT - 6 credits.
Anthropology: 102, 110L
Astronomy: 109, 110, 120
Atmospheric Sciences: 117
Biology (except for BIOL 208, 223, 224, 231)
Chemistry (except for CHEM 220, 241, 241L, 242, 242L)
Environmental Studies
Geography: 103, 104
Geology: 105 (except for GEOL 111B, 112B, 113B, 299B)
Natural Resources: 101
Nutrition: 121, 223
Physics (except for PHYS 293)

U.S. & NEVADA CONSTITUTION REQUIREMENTS - 3 or 6 credits.
Must meet both requirements. Choose from the following:
Core Humanities: 203
History: 101 & 217
History: 101 & 102
History: 111
Political Science: 103
History and Political Science Combination (History 101 and Political Science 208)

EMPHASIS REQUIREMENTS, PROGRAM REQUIREMENTS, AND GENERAL ELECTIVES
Number of credits required may vary by emphasis.
Some credits earned in non-traditional courses may be considered for elective credit and may require review in order to be applied to the AAS degree.
The Associate of General Studies has increasingly been utilized by students who intend to transfer to four-year colleges and universities. Although it was not designed for transfer, it can be used for this purpose if courses are selected carefully. The majority of the courses chosen should transfer to fulfill core and major requirements. It is recommended that anyone planning to attend the University of Nevada, Reno complete ENG 101 and 102, MATH 120 or a higher level math, and science/social science courses that fulfill UNR’s core curriculum requirements. Any “B” course credits will need to be made up upon transfer. Courses with a number under 100 (such as ENG 095) are not applicable toward an Associate of General Studies degree. Courses with a “B” designator after the number (such as MATH 100B) are college level courses which may apply toward a WNC degree but will not transfer to UNR or UNLV. In some cases, these courses may transfer to other Nevada community colleges and Nevada State College or other colleges and universities. See a WNC counselor for the latest transfer information. A maximum of six credits of special topics classes in one subject area may apply toward any WNC degree.

ASSOCIATE OF GENERAL STUDIES - Mission and Outcomes

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

Student Learning Outcomes: Students who complete an Associate of General Studies degree at WNC are expected to demonstrate that they

- have met the general education student learning outcomes.
- know the subject matter appropriate to their fields of study.

ASSOCIATE OF GENERAL STUDIES DEGREE REQUIREMENTS

**REQUIREMENTS:** A minimum of 60 total credits chosen from the following categories:

**ENGLISH/COMMUNICATIONS REQUIREMENT** - 6 credits.
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 or any other 200 level English class)

**FINE ARTS AND HUMANITIES REQUIREMENTS** - 3 credits.
- American Sign Language
- Art (except for ART 107)
- Core Humanities: 201, 202
- Crafts
- Dance: 101
- Foreign Languages
- Graphic Communications (except for GRC 107)
- History: 105, 106, 207, 247
- Humanities: 101
- Music
- Philosophy (except for PHIL 102, 114)
- Theatre: 100, 105, 180

**MATHEMATICS REQUIREMENT** - 3 credits.
- Business: 109B
- Economics: 261, 262
- Mathematics
- Psychology: 210
- Real Estate: 102B
- Sociology: 210
- Statistics: 152

**SCIENCE REQUIREMENT** - 3 credits.
- 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 111B, 112B, 113B, 229B)
- Natural Resources: 101
- Nutrition: 121, 223
- Physics (except for PHYS 293)

**SOCIAL SCIENCES REQUIREMENT** - 3 credits.
- Anthropology: 101, 201, 202, 210, 212
- Core Humanities: 203
- Criminal Justice
- Economics: 100, 102, 103
- Geography: 106, 200
- History: 101, 102, 111, 217, 295
- Journalism: 101
- Political Science
- Psychology (except for PSY 210)
- Social Work: 220
- Sociology (except for SOC 210)

**U.S. & NEVADA CONSTITUTION REQUIREMENTS** - 3 or 6 credits.
Must meet both requirements. Choose from:
- Core Humanities: 203
- History: 111
- History: 101 & 102
- History: 101 & 217
- Political Science: 103
- History and Political Science Combination (History 101 and Political Science 208)

**GENERAL ELECTIVES** - 36 or 39 credits.
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 credits 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.
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 experience within their major field. They will enter the job market with specific skills and knowledge useful for employment and advancement. A minimum of 30 credits is required for any certificate of achievement, although the exact number of credits required may differ with particular subject matter. All certificates include general education requirements which can be fulfilled from the following list of courses. Courses with a number under 100 (such as ENG 095) are not applicable toward a certificate of achievement at WNC. Courses with a “B” designator after the number (such as MATH 100B) are college level courses which may apply toward a WNC degree but which may not transfer to UNR or UNLV. In some cases, these courses may 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.

REQUIREMENTS: A minimum of 30 total credits chosen from the following categories:

ENGLISH/COMMUNICATIONS REQUIREMENTS-3-6 credits. *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 or any other 200 level English class except ENG 258)

HUMAN RELATIONS REQUIREMENT-1–3 credits.  
- Anthropology: 101, 201  
- Business: 110B, 287B  
- Counseling and Personal Development: 117, 129B  
- Criminal Justice: 270  
- Early Childhood Education: 121  
- Human Development & Family Studies: 201, 202  
- Law: 263  
- Management: 201, 212, 283  
- Psychology (except for PSY 210)  
- Sociology (except for SOC 210)

MATHEMATICS REQUIREMENT-3 credits.  
- Business: 109B  
- Economics: 261, 262  
- Mathematics  
- Psychology: 210  
- Real Estate: 102B  
- Sociology: 210  
- Statistics: 152

SUBJECT REQUIREMENTS-Varies by subject.  
A minimum of 30 credits is required for any certificate of achievement, although the exact number of credits required may differ with particular subject matter.
ACCOUNTING
Associate of Applied Science in Business

The Accounting emphasis has been designed to enable students to establish, maintain and manage both manual and automated accounting systems. Students can also develop the necessary competencies to create and analyze information for managerial decision-making situations. In addition to this degree program, students who intend to become full-charge bookkeepers will also need experience in the field.

Salary: $41,990–$67,940 / year (Nevada)
Career Outlook: Average growth
Good To Know: Four major accounting fields - public, management, government and internal auditing
WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 60 credits
Business Core Requirements
27 Credits
ACC 201* Financial Accounting 3
ACC 202 Managerial Accounting 3
BUS 101 Introduction to Business 3
or MGT 103 Introduction to Small Business Management 3
BUS 110B Human Relations For Employment 3
or MGT 201 Principles of Management 3
or MGT 212 Leadership & Human Relations 3
or MGT 263 Introduction to Human Resources Management 3
BUS 273 Business Law I 3
ECON 102 Principles of Microeconomics 3
ECON 103 Principles of Macroeconomics 3
IS 101 Introduction to Information Systems 3
IS 201 Computer Applications 3
* ACC 135B recommended prior to ACC 201

Emphasis Requirements* 15 Credits
ACC 203 Intermediate Accounting I 3
ACC 220 Microcomputer Accounting Systems 3

Choose 9 credits from the following:
ACC 105 Taxation For Individuals 3
ACC 180B Payroll & Employee Benefit Accounting 3
ACC 198B Special Topics in Accounting 3
ACC 204 Intermediate Accounting II 3
ACC 223B Introduction to QuickBooks 3
ACC 251 Introduction to Auditing 3
ACC 261 Governmental Accounting 3
ACC 290B Certified Bookkeeper Course 6
ACC 295B Work Experience I 3
ACC 299B Advanced Special Topics in Accounting 3
COT 262 Intermediate Spreadsheets Concepts 3
* Students should consult a counselor or instructor for information regarding sequence of accounting courses.

General Education Requirements 18 Credits
English/Communications Requirement:
Recommended: BUS 107, BUS 108; must include a writing course 6
Mathematics Requirement:
BUS 109B or higher level mathematics course 3
Science Requirement 3
U.S. and Nevada Constitution Requirements 3
General Electives 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.

ACCOUNTING - Mission & Outcomes
Mission: The purpose of the AAS Accounting in business is to provide the knowledge and skills necessary to succeed in the current business environment.
Student Learning Outcomes:
- Provide employment related knowledge and skills
- Know subject matter
- Understand accounting principles and their importance to the business environment
- Demonstrate oral, written, computational and computer skills
- Demonstrate managerial and personal skills
- Utilize appropriate resources to remain current in their field
- Appreciate the importance of social, ethical, legal and diversity issues

ACCOUNTING - Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>ACC 201</td>
<td>3</td>
<td>ACC 203</td>
</tr>
<tr>
<td></td>
<td>BUS 108 or</td>
<td>3</td>
<td>BUS 101</td>
</tr>
<tr>
<td></td>
<td>Eng/Comm (</td>
<td>3</td>
<td>MGT 103</td>
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<td></td>
<td>Writing class required)</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>ECON 102</td>
<td>3</td>
<td>U.S./Nevada Constitutions</td>
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<tr>
<td></td>
<td>IS 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Second Semester</td>
<td>ACC 202</td>
<td>3</td>
<td>Accounting Elective</td>
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<tr>
<td></td>
<td>ACC 220</td>
<td>3</td>
<td>BUS 110B</td>
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<td></td>
<td>BUS 107 or</td>
<td>3</td>
<td>MGT 212</td>
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<tr>
<td></td>
<td>other Eng/Comm</td>
<td></td>
<td>MGT 283</td>
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<tr>
<td></td>
<td>ECON 103</td>
<td>3</td>
<td>General Elective</td>
</tr>
<tr>
<td></td>
<td>IS 201</td>
<td>3</td>
<td>Science Elective</td>
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</table>

AMERICAN SIGN LANGUAGE
- See Deaf Studies -

WNC Academic Division:
Social Science, Education, Humanities & Public Service

www.wnc.edu
AUTOMOTIVE MECHANICS
Associate of Applied Science

The Automotive Mechanics 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.

Salary: $27,600–$50,100 / year (Nevada)
Career Outlook: Slightly higher than 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

WNC Academic Division: Technology

Total Requirements: 61 credits

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AUTO 101B</td>
<td>Introduction to General Mechanics</td>
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</tr>
<tr>
<td>AUTO 115B</td>
<td>Auto Electricity &amp; Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 117B</td>
<td>Advanced Auto Electronics</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 130B</td>
<td>Engine Reconditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 145B</td>
<td>Automotive Brakes</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 155B</td>
<td>Steering &amp; Suspension</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 160B</td>
<td>Auto Air Conditioning</td>
<td>3</td>
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<tr>
<td>AUTO 225B</td>
<td>Engine Performance I/Fuel &amp; Ignition</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 227B</td>
<td>Engine Performance II/Emission Control</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 235B</td>
<td>Engine Performance III/Diagnostics</td>
<td>4</td>
</tr>
</tbody>
</table>

General Education Requirements

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

AUTOMOTIVE MECHANICS - Suggested Course Sequence

First Semester Completed

<table>
<thead>
<tr>
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<td>AUTO 115B</td>
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<td>AUTO 130B</td>
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<td>BUS 107</td>
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Second Semester Completed

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Third Semester Completed

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<td>AUTO 225B</td>
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<tr>
<td>AUTO 227B</td>
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Fourth Semester Completed

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<td>BUS 110B</td>
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<td>U.S./Nevada</td>
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<table>
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<th>Credits</th>
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<tbody>
<tr>
<td>Constitution</td>
<td>3</td>
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</table>

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.
BIOLOGICAL SCIENCES
Associate of Science

The Biological Sciences emphasis is designed to equip students with basic and applied knowledge in general biology with an emphasis in critical thinking, bioethical issues, and laboratory and analytical skills related to the field of biology. Students are prepared to pursue studies in the fields of, but not limited to, biology, environmental studies, pre-health care, biochemistry, biotechnology, or as preparation for a teaching career.

Salary: $52,370–$69,720 / year (Nevada)
Career Outlook: Average growth. Biochemists and biophysicists are expected to grow faster than average
Good To Know: For advancement, some fields require graduate degrees. Strong competition for research positions.
WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 63-64 credits
Emphasis Requirements 39 Credits
BIOL 190 Introduction to Cell and Molecular Biology 3
BIOL 190L Introduction to Cell and Molecular Biology Lab 1
BIOL 191 Introduction to Organismal Biology 3
BIOL 191L Introduction to Organismal Biology Lab 1
CHEM 121 General Chemistry I 4
CHEM 122 General Chemistry II 4
MATH 128* Precalculus and Trigonometry 5
MATH 181 Calculus I 4
PHYS 151 General Physics I 4
PHYS 152 General Physics II 4
* Can substitute Math 126 and Math 127 for Math 128

Emphasis Electives
Choose 6 credits from the following list:
CHEM 220 Introductory Organic Chemistry 4
NUTR 223 Principles of Nutrition 3
STAT 152 Introduction to Statistics 3

General Education Requirement 24 Credits
English/Communications Requirements: Recommended: ENG 101, ENG 102 6
Fine Arts Requirements 3
Humanities Requirements: Recommended: CH 201, CH 202 6
Social Sciences Requirements 6
U.S. and Nevada Constitution Requirements 3

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

Note: EPY 150 is strongly recommended but not required for graduation. PHYS 180/180L and 191/191L are acceptable in lieu of PHYS 151 & 152. MATH 152 is required for a bachelor’s degree in biology at University of Nevada, Reno. It is recommended that students pursuing other areas in science take MATH 182.
BOOKKEEPING
Certificate of Achievement

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 a student passes this exam and obtains two years of bookkeeping experience, individuals 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.

Salary: $26,820–$40,190 / year (Nevada)
Career Outlook: Slower than average growth
Good To Know: The majority of new jobs will be created in small, rapidly growing organizations.

WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 30-33 credits
Subject Requirements 21-24 Credits
ACC 135B Bookkeeping I 3
& ACC 201 Financial Accounting 3
or ACC 201 Financial Accounting 3
& ACC 202 Managerial Accounting 3
ACC 220 Microcomputer Accounting Systems 3
BUS 110B Human Relations For Employment 3
or MGT 201 Principles of Management 3
or MGT 212 Leadership & Human Relations 3
or MGT 283 Introduction to Human Resources Management 3
IS 101 Introduction to Information Systems 3
IS 201 Computer Applications 3

Choose 3-6 credits from the following:
ACC 105 Taxation For Individuals 3
ACC 180B Payroll & Employee Benefit Accounting 3
ACC 198B Special Topics in Accounting 3
ACC 203 Intermediate Accounting I 3
ACC 223B Introduction to QuickBooks 3
ACC 251 Introduction to Auditing 3
ACC 261 Governmental Accounting 3
ACC 290B Certified Bookkeeper Course 6
ACC 299B Advanced Special Topics in Accounting 3

General Education Requirements 9 Credits
English/Communications Requirements: Recommended: BUS 107, BUS 108;
Must include a writing course 6
Mathematics Requirement: BUS 109B or higher level mathematics course 3
A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement page.

BOOKKEEPER CERTIFICATION
Certification and Licensing 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 a student passes this exam and obtains two years of bookkeeping experience, individuals 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.

Salary: $26,820–$40,190 / year (Nevada)
Career Outlook: Slower than average growth
Good To Know: The majority of new jobs will be created in small, rapidly growing organizations. Many opportunities for part-time and temporary work.

Total Requirements: 6 credits
ACC 290B Certified Bookkeeper Course 6

BOOKKEEPER CERTIFICATION - Mission & Outcomes

Mission: The purpose of the Bookkeeper Certification Program is to provide students with the knowledge and skills in the bookkeeping field and to prepare students to take the Certified Bookkeeper Examination.

Student Learning Outcomes
At completion of this program, students will have mastered the following areas:
• Adjusting Entries
• Correction of accounting errors
• Payroll
• Depreciation
• Inventory
• Internal controls

BOOKKEEPING - 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>ACC 135B or ACC 201</td>
<td>3 □</td>
<td>ACC 201 or ACC 202</td>
<td>3 □</td>
</tr>
<tr>
<td>BUS 108 or Eng/Comm</td>
<td>3 □</td>
<td>ACC 220</td>
<td>3 □</td>
</tr>
<tr>
<td>BUS 109B or higher math</td>
<td>3 □</td>
<td>Accounting Elective</td>
<td>3-6 □</td>
</tr>
<tr>
<td>BUS 110B, MGT 201,</td>
<td>3 □</td>
<td>BUS 107 or Eng/Comm</td>
<td>3 □</td>
</tr>
<tr>
<td>MGT 212 or MGT 283</td>
<td>3 □</td>
<td>IS 201</td>
<td>3 □</td>
</tr>
<tr>
<td>IS 101</td>
<td>3 □</td>
<td></td>
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</tr>
</tbody>
</table>
BUSINESS PROGRAM

The Business Division offers Associate of Applied Science degrees, certificates of achievement, and certification and licensing preparation. The mission of the division is to prepare students for transfer to four-year colleges and/or to provide the knowledge they need for their careers.

Programs of study offered at WNC include:
• Accounting
• Business
• Computer & Office Technology

Certificates offered at WNC include:
• Bookkeeping
• Business
• Customer Service

BUSINESS

Certificate of Achievement

WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 30 credits

Subject Requirements 21 Credits

ACC 135B Bookkeeping I 3
or ACC 201 Financial Accounting 3
or MGT 103 Introduction to Business 3
BUS 107 Business Speech Communications 3
BUS 110B Human Relations For Employment 3
or MGT 212 Leadership & Human Relations 3
BUS 128 Customer Service 3
or MKT 261 Introduction to Public Relations 3
or MKT 210 Marketing Principles 3
IS 101 Introduction to Information Systems 3
or IS 201 Computer Applications 3
MGT 201 Principles of Management 3
or MGT 235 Organizational Behavior 3

* BUS 107 is strongly recommended; COM 101 or 113 is acceptable in lieu of BUS 107

General Education Requirements 9 Credits

English/Communications Requirement: Recommended: BUS 108; Must be a writing course 3
Mathematics Requirement: BUS 109B or higher level mathematics course 3
General Electives 3

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

BUSINESS - Suggested Course Sequence

First Semester 3 Completed
ACC 135B or ACC 201 3
BUS 101 or MGT 103 3
BUS 107 3
BUS 110B or MGT 212 3
IS 101 or IS 201 3

Second Semester 3 Completed
BUS 108 3
BUS 109B 3
BUS 112B, MGT 261 3
Elective 3
MGT 201 or MGT 235 3

BUSINESS - Suggested Course Sequence

First Semester 3 Completed
U.S./Nevada Constitution 3
BUS 101 or MGT 103 3
BUS 107 3
BUS 109B or math 3
IS 101 3

Second Semester 3 Completed
Science Course 3
BUS 108 3
BUS 273 3
ECON 102 3
IS 201 3

Fourth Semester 3 Completed
BUS 101 or MGT 103 3
BUS 107 3
BUS 109B or math 3
IS 101 3

ECON 102 3
IS 201 3

BUSINESS

General Business Emphasis Associate of Applied Science

The General Business Emphasis provides knowledge and skills in the field of business. Students are encouraged to meet with a WNC counselor to identify programs which best suit their career goals.

Salary: Depends on size & type of organization. $42,896–$90,873 / year (Nevada)
Career Outlook: Average growth, strong competition
Good To Know: Often includes hiring, training and supervising employees

WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 60 credits

Business Core Requirements 27 Credits

ACC 135B Bookkeeping II 3
& ACC 201 Financial Accounting 3
or ACC 201 Financial Accounting 3
& ACC 202 Managerial Accounting 3
or BUS 101 Introduction to Business 3
or MGT 103 Introduction to Small Business Management 3
BUS 110B Human Relations For Employment 3
or MGT 201 Principles of Management 3
or MGT 212 Leadership & Human Relations 3
or MGT 283 Introduction to Human Resources Management 3
BUS 273 Business Law I 3
ECON 102 Principles of Microeconomics 3
ECON 103 Principles of Macroeconomics 3
IS 101 Introduction to Information Systems 3
IS 201 Computer Applications 3

Emphasis Requirements 15 Credits

Choose from the following areas: Accounting, Business, Economics, Finance, Insurance, Management, Marketing or Real Estate. Must take at least 3 credits in three different subject areas.

General Education Requirements 18 Credits

English/Communications Requirement: Recommended: BUS 107, BUS 108; Must include a writing course 6
Mathematics Requirement: BUS 109B or higher level mathematics course 3
Science Requirement 3
U.S. and Nevada Constitution Requirements 3
General Electives 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.

ASSOCIATE OF APPLIED SCIENCE BUSINESS - Mission & Outcomes

Mission: The purpose of the Associate of Applied Science degree in business is to provide the knowledge and skills necessary to succeed in the current business environment.

Student Learning Outcomes: Students who complete an Associate of Applied Science degree at WNC are expected to demonstrate that they:
• have developed managerial and personal skills essential to the current business environment.

CERTIFICATE OF BUSINESS - Mission & Outcomes

Mission: The purpose of the Certificate in Business is to provide the knowledge and skills necessary to succeed in the business environment.

Student Learning Outcomes: Upon completing the Certificate in Business, students will be able to: Provide employment related knowledge and skills; Know subject matter; Understand accounting principles and their importance to the business environment; Demonstrate managerial and personal skills; Demonstrate oral, written, computational and computer skills; Utilize appropriate resources to remain current in their field; Appreciate the importance of social, ethical, legal and diversity issues.
CHEMISTRY
Associate of Science
The Chemistry emphasis is designed to prepare students to transfer to baccalaureate programs in the science, health, teaching, and engineering fields, or the work force in chemistry-related industries.

Salary: $54,460–$95,650 / year (Nevada)
Career Outlook: Slower than average growth
Good To Know: For advancement, some fields require graduate degrees. Much of growth will be in drug manufacturing companies and research testing services
WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 credits
Emphasis Requirements 36 Credits
BIOL 190 Introduction to Cell and Molecular Biology 3
BIOL 190L Introduction to Cell and Molecular Biology Lab 1
CHEM 121 General Chemistry I 4
CHEM 122 General Chemistry II 4
CHEM 241 Organic Chemistry I 3
CHEM 241L Organic Chemistry for Life Sciences Laboratory I 1
CHEM 242 Organic Chemistry II 3
CHEM 242L Organic Chemistry for Life Sciences Laboratory II 1
MATH 181 Calculus I 4
MATH 182 Calculus II 4
PHYS 180 Engineering Physics I 3
PHYS 180L Engineering Physics I Lab 1
PHYS 181 Engineering Physics II 3
PHYS 181L Engineering Physics II Lab 1

General Education Requirements 24 Credits
English/Communications Requirements: Recommended: ENG 101, ENG 102 6
Fine Arts Requirements 3
Humanities Requirements: Recommended: CH 201, CH 202 6
Social Sciences Requirements 6
U.S. and Nevada Constitution Requirements 3

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

NOTE: EPY 150 is strongly recommended but not required for graduation. PHYS 151 & 152 are acceptable in lieu of PHYS 180 & 181. GEOL 101/103 recommended in addition to the above for those pursuing a bachelor’s degree in geochemistry.
**COMPUTER AND OFFICE TECHNOLOGY**

**Associate of Applied Science**

The Computer and Office Technology emphasis is designed for those seeking specific career skills in office environments. The program will prepare students with the necessary skills for entry level employment in a professional business office environment using current software applications. Some courses can transfer to baccalaureate programs.

**Salary:** $33,290–$51,100 / year (Nevada)

**Career Outlook:** Average growth; many office systems have become more automated

**Good To Know:** Good communication skills critical; use computers heavily; may supervise office staff

**WNC Academic Division:** Technology

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### General Education Requirements

**21 Credits**

- **English/Communications Requirement:** Recommended: BUS 107, BUS 108; Must include a writing course
- **Humanities/Social Science Requirements:** 3
- **Mathematics Requirement:** Recommended: BUS 109B
- **Science Requirement:** 3
- **U.S. and Nevada Constitution Requirements:** 3
- **General Electives:** 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.

### COMPUTER AND OFFICE TECHNOLOGY - Suggested Course Sequence

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<th>Third Semester</th>
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<td>U.S./Nevada Constitution</td>
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<td>BUS 110B</td>
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<td>Program Elective</td>
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### ASSOCIATE OF APPLIED SCIENCE

**COMPUTER AND OFFICE TECHNOLOGY - Mission & Outcomes**

**Mission:** The purpose of the Associate of Applied Science degree in Computer & Office Technology is to provide employment-related knowledge and skills necessary to succeed in a chosen field of computer technology and/or applications study.

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

Know:
- practices and procedures required for entry level employment
- entry level skill set, and
- the theoretical principles relevant to their field of study

Are able to:
- test successfully on competencies required to pass industry standard certification exams
- communicate effectively and appropriately, in oral and written form
- locate, evaluate and properly utilize the tools & resources appropriate to a computer technology professional
- acquired skills and perform tasks necessary for employment or career enhancement
- demonstrate effective communication and computation skills appropriate to the chosen occupational field

Appreciate and value:
- appropriate and effective presentation of themselves to potential employers
- standards of social, ethical, legal, accessibility, and diversity issues of their work environment

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**Total Requirements:** 60 credits

**Degree Requirements:** 21 Credits

- Strongly recommend 40 wpm typing skills for successful degree completion.
- ACC 135B Bookkeeping
- or ACC 201 Financial Accounting
- BUS 110B Human Relations For Employment
- or MGT 212 Leadership & Human Relations
- or MGT 201 Principles of Management
- COT 200 Beginning Word Processing
- or COT 216 Intermediate Word Processing
- COT 204 Using Windows
- COT 262 Intermediate Spreadsheets Concepts
- IS 101 Introduction to Information Systems
- IS 201 Computer Applications

**Program Requirements:** 18 Credits

Choose a total of 18 credits from any of the following courses:

- ACC 223B Introduction to QuickBooks
- BUS 112B Customer Service
- CIT 151 Beginning Web Development
- or GRC 175 Web Design and Publishing I
- CIT 152 Web Script Language Programming
- COT 101 Computer Keyboarding I
- or COT 200 Beginning Word Processing
- COT 222 Desktop Publishing With Word Processing
- COT 223 Advanced Desktop Publishing
- COT 266 Intermediate Database Concepts
- GRC 118 Computer Graphics - Print Media
- GRC 119 Computer Graphics - Digital Media
- GRC 183 Electronic Imaging
- or ART 243 Digital Imaging I
- GRC 283B Electronic Imaging II
- or ART 244 Digital Imaging II
- MKT 210 Marketing Principles

Students interested in Desktop Publishing skills should include in their choices:

COT 222, COT 223, GRC 118, GRC 183 OR ART 243, GRC 283B OR ART 243, & MKT 210

Students interested in Web Design skills should include in their choices:

CIT 151 OR GRC 175, CIT 152 & GRC 119

Students interested in Computer Applications skills should include in their choices:

COT 266, BUS 112B, ACC 223B, COT 101 OR COT 102
COMPUTER SCIENCE
Associate of Science
The Associate of Science degree in Computer Science will prepare students for transfer to a university, particularly the University of Nevada, Reno. It will provide students with a breadth of knowledge commonly accepted as necessary for a degree in the field of Computer Science. In addition, the degree core requirements also provide a depth of knowledge in several key areas of the computer science field, for students seeking entry-level employment in the growing field of computing and information sciences.

Salary: $43,740–$73,290 / year (Nevada
Career Outlook: Much faster than average growth
Good To Know: Bachelor’s degree required for most systems analysts
WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 64 credits
Emphasis Requirements 40 Credits
CHEM 121 General Chemistry I 4
CIT 130 Beginning Java 3
CIT 260 Systems Analysis and Design I 3
CPE 201 Introduction to Computer Engineering 4
CS 135 Computer Science I 3
CS 202 Computer Science II 3
MATH 181 Calculus I 4
MATH 182 Calculus II 4
MATH 283 Calculus III 4
PHYS 180 Engineering Physics I 3
PHYS 180L Engineering Physics I Lab 1
PHYS 181 Engineering Physics II 3
PHYS 181L Engineering Physics II Lab 1

General Education Requirements 24 Credits
English/Communications Requirements: Recommended: ENG 101, ENG 102 6
Fine Arts Requirements 3
Humanities Requirements 6
Social Sciences Requirements 6
U.S. and Nevada Constitution Requirements 3

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

COMPUTER SCIENCE - Suggested Course Sequence

<table>
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<tr>
<td>CHEM 121</td>
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<td>CHEM 121</td>
<td>4 ☐</td>
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<tr>
<td>CIT 130</td>
<td>3 ☐</td>
<td>MATH 283</td>
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<td>MATH 181</td>
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<td>PHYS 181</td>
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<td>PHYS 180L</td>
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<td>PHYS 181L</td>
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<th>Completed</th>
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<th>Completed</th>
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<tbody>
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<td>General Education Courses</td>
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<td>General Education Courses</td>
<td>9 ☐</td>
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<td>CIT 260</td>
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<td>MATH 182</td>
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<td>PHYS 180L</td>
<td>1 ☐</td>
<td>PHYS 180L</td>
<td>1 ☐</td>
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</table>
COMPUTER TECHNOLOGY PROGRAMS

WNC’s Computer Technology programs are designed to offer students access to the rapidly changing and growing opportunities in the computer and information technology career field.

The college offers Associate of Applied Science degrees:
- Computer Networking Technology
- Information Technology

The college offers Certificates of Achievement:
- Computer Applications
- Network Support Technician
- System Administration Technician

Students also have the opportunity to achieve industry certification through nationally available testing programs.

COMPUTER TECHNOLOGY

Computer Applications Certificate of Achievement

The Computer Applications Certificate is designed for students seeking training and careers in the field area of administrative/executive assistant, office employee, or data entry.

WNC Academic Division: Business and Computer Technology

Total Requirements: 30 credits

Subject Requirements: 15 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 135B</td>
<td>Bookkeeping I</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 201</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>COT 101</td>
<td>Computer Keyboarding I</td>
<td>3</td>
</tr>
<tr>
<td>or COT 102</td>
<td>Computer Keyboarding II</td>
<td>3</td>
</tr>
<tr>
<td>or COT 200</td>
<td>Beginning Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>or COT 216</td>
<td>Intermediate Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>COT 204</td>
<td>Using Windows</td>
<td>3</td>
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<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>IS 201</td>
<td>Computer Applications</td>
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</table>

Choose six credits from the following classes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 223B</td>
<td>Introduction to QuickBooks</td>
<td>3</td>
</tr>
<tr>
<td>BUS 112B</td>
<td>Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>CIT 151</td>
<td>Beginning Web Development</td>
<td>3</td>
</tr>
<tr>
<td>or GRC 175</td>
<td>Web Design and Publishing I</td>
<td>3</td>
</tr>
<tr>
<td>COT 200</td>
<td>Beginning Word Processing</td>
<td>3</td>
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<tr>
<td>or COT 216</td>
<td>Intermediate Word Processing</td>
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<tr>
<td>COT 222</td>
<td>Desktop Publishing With Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>COT 223</td>
<td>Advanced Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>COT 262</td>
<td>Intermediate Spreadsheets Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COT 266</td>
<td>Intermediate Database Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements: 9 credits

English/Communications Requirements: Recommended: BUS 108; Must include a writing course

Human Relations Requirement: Recommended: BUS 110B

Mathematics Requirement: Recommended: BUS 109B

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

COMPUTER APPLICATIONS - Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester Completed</th>
<th>Second Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Course</td>
<td>Mathematics Course</td>
</tr>
<tr>
<td>ACC 135B</td>
<td>General Education Course</td>
</tr>
<tr>
<td>COT 101</td>
<td>COT 204</td>
</tr>
<tr>
<td>IS 101</td>
<td>IS 201</td>
</tr>
<tr>
<td>Program Elective</td>
<td>Program Elective</td>
</tr>
</tbody>
</table>

CERTIFICATE OF ACHIEVEMENT - COMPUTER TECHNOLOGY

COMPUTER APPLICATIONS - Mission & Outcomes

Mission: The purpose of the Certificate in Computer Applications in business is to provide the knowledge and skills necessary to succeed in the current business environment.

Student Learning Outcomes:
- Provide employment related knowledge and skills.
- Know subject matter appropriate to emphasis of certificate.
- Understanding of software applications and its importance to the business environment.
- Demonstrate oral, written, and computational skills.
- Develop, create, and modify general computer applications software or specialized utility programs.
- Apply project management principles to software projects.
COMPUTER TECHNOLOGY

Computer Networking Technology Associate of Applied Science

The Computer Networking Technology program is designed for students seeking career skills in computer networking environments. Students choose one of three specializations to customize their program: Network Technology Management, Security and Information Assurance, or Transfer Option.

Salary: $49,990–$91,807 / year (Nevada)
Career Outlook: Much faster than average growth
Good To Know: Businesses & government are investing heavily in 'cyber-security'
WNC Academic Division: Technology

Total Requirements: 60-61 credits
Program Requirements 35-37 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 161B</td>
<td>Essentials of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CIT 211</td>
<td>Microsoft Networking I</td>
<td>4</td>
</tr>
<tr>
<td>CIT 212</td>
<td>Microsoft Networking II</td>
<td>4</td>
</tr>
<tr>
<td>CIT 263B</td>
<td>Introduction To IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 120</td>
<td>CCNA Internetworking Fundamentals Elective</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 121</td>
<td>CCNA Routing Protocols &amp; Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 130B</td>
<td>Fundamentals of Wireless LANs</td>
<td>4</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 212</td>
<td>Leadership &amp; Human Relations</td>
<td></td>
</tr>
<tr>
<td>or MGT 283</td>
<td>Introduction to Human Resources Management</td>
<td></td>
</tr>
</tbody>
</table>

Choose two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIT 173</td>
<td>Linux Installation and Configuration</td>
<td>3</td>
</tr>
<tr>
<td>CIT 174</td>
<td>Linux System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIT 213</td>
<td>Microsoft Networking III</td>
<td>4</td>
</tr>
<tr>
<td>CIT 214</td>
<td>Microsoft Networking IV</td>
<td>4</td>
</tr>
<tr>
<td>CIT 215</td>
<td>Microsoft Networking V</td>
<td>4</td>
</tr>
<tr>
<td>Any CSCO class</td>
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<td>4-8</td>
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General Education Requirements: 24-25 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English/Communications Requirement: Recommended: BUS 107&amp;108; Must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science Requirements: Recommended: MATH 126 or higher</td>
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</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>0–1</td>
</tr>
</tbody>
</table>

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.

ASSOCIATE OF APPLIED SCIENCE - COMPUTER TECHNOLOGY

Mission & Outcomes

Mission: The purpose of the Associate of Applied Science degree in Computer Networking Technology is to provide graduates with up-to-date training in the management of information resources, including computer and networking operations, infrastructure and information security.

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

- practices and procedures required for entry level employment
- entry level skill set
- theoretical principles relevant to their emphasis

Are able to:

- test successfully on competencies required to pass industry standard certification exams
- communicate effectively and appropriately, in oral and written form
- locate, evaluate and properly utilize the tools and resources appropriate to a computer technology professional
- acquire skills and perform tasks necessary for employment or career enhancement
- demonstrate effective communication and computation skills appropriate to the chosen occupational field

Appreciate and value:

- appropriate and effective presentation of themselves to potential employers
- standards of social, ethical, legal, accessibility, and diversity issues of their work environment

Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
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<tr>
<td>Math</td>
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<tr>
<td>CIT 211</td>
<td>4</td>
<td>or CSCO 120</td>
<td></td>
</tr>
<tr>
<td>CIT 212</td>
<td>4</td>
<td>or CSCO 121</td>
<td></td>
</tr>
<tr>
<td>Second</td>
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<tr>
<td>Networking Electives</td>
<td>6–8</td>
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</tr>
<tr>
<td>English</td>
<td>3</td>
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<td>CIT 161B</td>
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<td></td>
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<tr>
<td>Third</td>
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</tr>
<tr>
<td>Science</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td>Humanities/Social Science</td>
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<td></td>
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</tr>
<tr>
<td>CIT 211</td>
<td>4</td>
<td>or CSCO 120</td>
<td></td>
</tr>
<tr>
<td>CIT 212</td>
<td>4</td>
<td>or CSCO 121</td>
<td></td>
</tr>
<tr>
<td>C SCO 130B</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fourth</td>
<td></td>
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<tr>
<td>General Elective</td>
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<tr>
<td>US/Nev. Constitution</td>
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</tr>
<tr>
<td>Science</td>
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<tr>
<td>C SCO 130B</td>
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<tr>
<td>Human Relations Course</td>
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<tr>
<td>MGT 201, MGT 212, or MGT 283</td>
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</table>
COMPUTER TECHNOLOGY

Information Technology Associate of Applied Science

When computer and communications technologies are combined, the result is Information Technology! The Information Technology degree is designed to prepare students to perform a variety of duties ranging from installing applications to designing complex computer networks and maintaining information systems. Systems administrators can work in a variety of environments including manufacturing, health care, education, or state and local government agencies. Every business has some kind of IT needs, and a graduate of this program will have a broad base of theory in and hands-on practice with many aspects of technology, especially the use of electronic devices and computer software to convert, store, protect, process, transmit, and retrieve information.

Salary: $27,363–$83,890 / year (U.S.)
Career Outlook: Much faster than average growth
Good To Know: Offers broad career opportunities & room for advancement

WNC Academic Division: Technology

Total Requirements: 60 credits
Core Requirements 38-39 Credits
CIT 161B Essentials of Information Security 3
CIT 165B Introduction to Convergence 3
CIT 211 Microsoft Networking I 4
CIT 212 Microsoft Networking II 4
CISCO 120 CCNA Internetworking Fundamentals 4
CISCO 121 CCNA Routing Protocols & Concepts 4
ET 131B DC for Electronics 4
ET 265B Fundamentals of Telecommunications 3
Choose one course:
ET 155B Home Technology Convergence 4
ET 117B Computer Forensics 3

Choose at least 6 credits from the following program electives:
AIT 101B Fundamentals of Applied Industrial Technology 4
CIT 213 Microsoft Networking III 4
CIT 214 Microsoft Networking IV 3-5
CIT 215 Microsoft Networking V 3-5
CIT 263B Introduction To IT Project Management 3
CIT 269B Advanced Convergence 3
CISCO 220 CCNA LAN Switching & Wireless Fundamentals 4
CISCO 221 CISCO WAN Fundamentals 4
CISCO 130B Fundamentals of Wireless LANs 4
ET 132B AC for Electronics 4
ET 198B Special Topics in Electronics 4
ET 200B Electronics Projects 4
ET 117B Computer Forensics 3

General Education Requirements 21-22 Credits
English/Communications: Recommended: BUS 107 & BUS 108:
Must include a writing course 6
Human Relations Requirement 3
Humanities/Social Science Requirements 3
Mathematics Requirement 3
Science Requirement 3
U.S. and Nevada Constitution Requirements 3
General Electives 0-1

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.
**COMPUTER TECHNOLOGY**

**Network Support Technician Certificate of Achievement**

**Mission:** The purpose of the Network Support Technician certificate is to provide students with the knowledge and skills needed to succeed in their chosen careers.

**Student Learning Outcomes:** Students in the Computer Technologies Certificate programs are expected to:
- Know: the competencies required to successfully pass information technology certification exams.
- Are able to: demonstrate the skills and competencies required of professionals in the information technology industry in real-world practice.
- Communicate effectively and appropriately, in oral and written form, with employees, colleagues and lay people.
- Locate, evaluate and properly utilize the tools and resources appropriate to an information technology professional.
- Appreciate: the need for continuing education and life long learning.

**Salary:** $50,923–$83,890/ year (Nevada)

**Career Outlook:** Growth will be much faster than average

**Good To Know:** WNC is a CISCO Regional Academy. Companies will continue to invest heavily in their computer systems because of productivity gains and investment returns.

**WNC Academic Division: Technology**

**Total Requirements:** 33 – 35 credits

<table>
<thead>
<tr>
<th>Subject Requirements</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>English/Communications Requirements: Must include a writing course</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>1–3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
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</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>English/Communications Requirements</th>
<th>7–9 Credits</th>
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<tbody>
<tr>
<td>Human Relations Requirement</td>
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**Mathematics Requirement**

<table>
<thead>
<tr>
<th>Mathematics Course</th>
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</thead>
<tbody>
<tr>
<td>CIT 263B Essentials of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 120 CCNA Interworking Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 121 CCNA Routing Protocols &amp; Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 130B Fundamentals of Wireless LANs</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 220 CCNA LAN Switching &amp; Wireless Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 221 CCNA WAN Fundamentals</td>
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</table>

**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>English Course</td>
<td>3</td>
<td>Human Relations Course</td>
<td>1–3</td>
</tr>
<tr>
<td>Mathematics Course</td>
<td>3</td>
<td>CIT 161B</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 120</td>
<td>3</td>
<td>CSCO 130B</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 121</td>
<td>4</td>
<td>CSCO 220</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 221</td>
<td>4</td>
<td>CSCO 222</td>
<td>4</td>
</tr>
</tbody>
</table>

**CERTIFICATE OF ACHIEVEMENT - COMPUTER TECHNOLOGY**

**SYSTEM ADMINISTRATION TECHNICIAN**

**Mission:** The purpose of the System Administration Technician certificate is to provide students with the knowledge and skills needed to succeed in their chosen careers.

**Student Learning Outcomes:** Students in the Computer Technologies Certificate programs are expected to:
- Know: the competencies required to successfully pass information technology certification exams.
- Are able to: demonstrate the skills and competencies required of professionals in the information technology industry in real-world practice.
- Communicate effectively and appropriately, in oral and written form, with employees, colleagues and lay people.
- Locate, evaluate and properly utilize the tools and resources appropriate to an information technology professional.
- Appreciate: the need for continuing education and life long learning.

**Salary:** $64,945–$102,818 / year (Nevada)

**Career Outlook:** Faster than average growth

**Good To Know:** Administrators design, install & support networks. Major employers include systems design firms, business management companies, colleges/universities, and government agencies.

**WNC Academic Division: Technology**

**Total Requirements:** 33 – 35 credits

<table>
<thead>
<tr>
<th>Subject Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 161B Essentials of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CIT 211 Microsoft Networking I</td>
<td>4</td>
</tr>
<tr>
<td>CIT 212 Microsoft Networking II</td>
<td>4</td>
</tr>
<tr>
<td>CIT 213 Microsoft Networking III</td>
<td>4</td>
</tr>
<tr>
<td>CIT 214 Microsoft Networking IV</td>
<td>4</td>
</tr>
<tr>
<td>CIT 215 Microsoft Networking V</td>
<td>4</td>
</tr>
<tr>
<td>or CIT 165B Introduction to Convergence</td>
<td>3</td>
</tr>
<tr>
<td>or ET 155B Home Technology Convergence</td>
<td>3</td>
</tr>
<tr>
<td>CIT 263B Introduction to IT Project Management</td>
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**General Education Requirements**

<table>
<thead>
<tr>
<th>English/Communications Requirements</th>
<th>7–9 Credits</th>
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<td>Human Relations Requirement</td>
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**Mathematics Requirement**

<table>
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<tr>
<th>Mathematics Course</th>
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</thead>
<tbody>
<tr>
<td>CIT 263B Essentials of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCO 120 CCNA Interworking Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 121 CCNA Routing Protocols &amp; Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 130B Fundamentals of Wireless LANs</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 220 CCNA LAN Switching &amp; Wireless Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CSCO 221 CCNA WAN Fundamentals</td>
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**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>English Course</td>
<td>3</td>
<td>CIT 161B</td>
<td>3</td>
</tr>
<tr>
<td>CIT 211</td>
<td>4</td>
<td>CSCO 120</td>
<td>4</td>
</tr>
<tr>
<td>CIT 212</td>
<td>4</td>
<td>CSCO 121</td>
<td>4</td>
</tr>
<tr>
<td>CIT 263B</td>
<td>3</td>
<td>CSCO 220</td>
<td>4</td>
</tr>
</tbody>
</table>

**WESTERN NEVADA COLLEGE • 2010-2011**

**ACADEMIC DEGREES**
CONSTRUCTION TECHNOLOGY PROGRAM

The Construction Technology program prepares students for careers within the various construction industry disciplines. As construction technology students will possess a diversity of work experiences, skills and interests, the program accommodates a variety of study areas and competency levels to address student and industry needs.

The college offers classes toward licensure in:

- Certified Inspector of Structures
- Construction Management

Students must meet with a counselor and be admitted into the Construction Management program prior to enrolling in upper division courses.

Deborah Case, BTech Advisor: 775-445-3270 or casekd3@wnc.edu

ASSOCIATE OF APPLIED SCIENCE - CONSTRUCTION TECHNOLOGY

Mission: The mission of the Associate of Applied Science degree in Construction Technology is to prepare students for entry level and mid-level positions within the various construction industry disciplines.

Student Learning Outcomes: Expectations for students completing the Construction Technology curriculum are as follows:

Construction Project Management
- Know the tasks, responsibilities, and industry standards of the various trades,
- Understand the responsibilities of subcontractors, general contractors, superintendents, project managers, architects and engineers,
- Demonstrate the ability to communicate with the above entities per industry standards,
- Demonstrate the ability to produce a construction schedule,
- Understand the implementation and coordination of a construction schedule,
- Demonstrate the ability to write construction contracts per industry standards,
- Demonstrate an understanding of construction law,
- Utilize the various resources available to explore new construction methods and insure quality control,
- Demonstrate the ability to favorably represent himself or herself to a potential employer.

Certified Inspector of Structures
- Demonstrate an understanding of all components within a certified inspection,
- Demonstrate the ability to conduct a certified inspection per NRS 645D,
- Demonstrate the ability to produce a credible, professional report consistent with NRS 645D,
- Successfully complete the state of Nevada examination for Certified Inspector of S1 Structures-Residential.

CONSTRUCTION TECHNOLOGY

Construction Project Management Associate of Applied Science

The Construction Project Management emphasis provides management 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.

Salary: $47,000–$79,900 / year (Nevada)

Career Outlook: Faster than average growth

Good To Know: About 47 percent are self-employed. Employment depends on economy and layoffs may occur during times of low construction activity.

WNC Academic Division: Technology

Total Requirements: 61 credits

Core Requirements: 13 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BI 101B</td>
<td>Introduction to Building Codes</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108B</td>
<td>Construction Materials and Methods</td>
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<td>CONS 120B</td>
<td>Blueprint Reading and Specification</td>
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<td>CONS 121B</td>
<td>Principles of Construction Estimating</td>
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</tr>
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<td>CONS 205B</td>
<td>Construction Site Safety</td>
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Emphasis Requirements: 24 Credits

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AC 198B</td>
<td>Special Topics in HVAC</td>
<td>2</td>
</tr>
<tr>
<td>CONS 114B</td>
<td>Soils, Sitework, Concrete and Testing</td>
<td>3</td>
</tr>
<tr>
<td>CONS 116B</td>
<td>Plumbing Principles and Methods</td>
<td>2</td>
</tr>
<tr>
<td>CONS 118B</td>
<td>Construction Contract Documents</td>
<td>3</td>
</tr>
<tr>
<td>CONS 216B</td>
<td>Structural Layout Assembly</td>
<td>2</td>
</tr>
<tr>
<td>CONS 230B</td>
<td>Electrical Distribution System</td>
<td>2</td>
</tr>
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<td>CONS 281B</td>
<td>Construction Planning Scheduling And Control</td>
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<td>CONS 290B</td>
<td>Internship in Construction</td>
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<td>SUR 161</td>
<td>Elementary Surveying</td>
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<tr>
<td>or SUR 265</td>
<td>Introduction to Construction Surveying</td>
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General Education Requirements: 24 Credits

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<thead>
<tr>
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<tbody>
<tr>
<td>BUS 107</td>
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<tr>
<td>BI 101B</td>
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</tr>
<tr>
<td>BUS 108</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CONS 121B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CONS 205B</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>BUS 110B</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

CONSTRUCTION TECHNOLOGY - Suggested Course Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 107</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CONS 116B</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CONS 118B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CONS 216B</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CONS 281B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>SUR 161</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

ACADEMIC DEGREES
CONSTRUCTION MANAGEMENT

Bachelor of Technology

The Bachelor of Technology degree in Construction Management provides associate degree students, new students and skilled workers an educational route toward a career as a construction manager or supervisor. The 128-credit program combines knowledge in construction methods, planning and project management with business and supervisory skills. This program allows those who have completed an associate degree in construction technology to progress academically and earn a bachelor's degree. 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.

Salary: $67,030–$115,700 / year (Nevada)

Career Outlook:
Average growth

Good To Know: Construction managers are in charge of construction projects, such as buildings, roads or bridges. Those with a bachelor’s degree have a better chance of finding jobs and earning higher pay.

WNC Academic Division: Technology

Total Requirements: 128 credits

<table>
<thead>
<tr>
<th>Business Core</th>
<th>18 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 201</td>
<td>Financial Accounting 3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics 3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Macroeconomics 3</td>
</tr>
<tr>
<td>ECON 261</td>
<td>Principles of Statistics I 3</td>
</tr>
<tr>
<td>MGT 323</td>
<td>Organizational Behavior and Interpersonal Behavior 3</td>
</tr>
<tr>
<td>MGT 367</td>
<td>Human Resource Management 3</td>
</tr>
</tbody>
</table>

Construction Core Requirements: 62 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 198B</td>
<td>Special Topics in HVAC 2</td>
</tr>
<tr>
<td>BI 101B</td>
<td>Introduction to Building Codes 3</td>
</tr>
<tr>
<td>CADD 100</td>
<td>Introduction to Computer Aided Drafting 3</td>
</tr>
<tr>
<td>CEE 411</td>
<td>Environmental Law 3</td>
</tr>
<tr>
<td>CEE 462</td>
<td>Construction Cost Estimating 3</td>
</tr>
<tr>
<td>CEE 463</td>
<td>Project Scheduling 3</td>
</tr>
<tr>
<td>CEE 464</td>
<td>Construction Law 2</td>
</tr>
<tr>
<td>CEE 465</td>
<td>Construction Cost Accounting 2</td>
</tr>
<tr>
<td>CEE 466</td>
<td>Construction Management 2</td>
</tr>
<tr>
<td>CEE 495</td>
<td>Special Topics 3</td>
</tr>
<tr>
<td>CONS 108B</td>
<td>Construction Materials and Methods 3</td>
</tr>
<tr>
<td>CONS 114B</td>
<td>Soils, Sitework, Concrete and Testing 3</td>
</tr>
<tr>
<td>CONS 116B</td>
<td>Plumbing Principles and Methods 2</td>
</tr>
<tr>
<td>CONS 118B</td>
<td>Construction Contract Documents 3</td>
</tr>
<tr>
<td>CONS 120B</td>
<td>Blueprint Reading and Specification 3</td>
</tr>
<tr>
<td>CONS 121B</td>
<td>Principles of Construction Estimating 3</td>
</tr>
<tr>
<td>CONS 205B</td>
<td>Construction Site Safety 1</td>
</tr>
<tr>
<td>CONS 216B</td>
<td>Structural Layout Assembly 2</td>
</tr>
<tr>
<td>CONS 230B</td>
<td>Electrical Distribution System 2</td>
</tr>
<tr>
<td>CONS 281B</td>
<td>Construction Planning Scheduling And Control 3</td>
</tr>
<tr>
<td>CONS 351</td>
<td>Advanced Project Supervision 5</td>
</tr>
<tr>
<td>CONS 451</td>
<td>Advanced Internship in Construction 2</td>
</tr>
<tr>
<td>SUR 151</td>
<td>Elementary Surveying 4</td>
</tr>
<tr>
<td>CEE 411</td>
<td>Environmental Law 3</td>
</tr>
<tr>
<td>CEE 463</td>
<td>Construction Law 3</td>
</tr>
<tr>
<td>MGT 367</td>
<td>Human Resource Management 3</td>
</tr>
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</table>

General Education Requirements: 48 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Capstone Courses</td>
<td>9</td>
</tr>
<tr>
<td>English/Communications Requirements</td>
<td>9–11</td>
</tr>
<tr>
<td>Fine Arts Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics and Science Requirements</td>
<td>15</td>
</tr>
<tr>
<td>Social Sciences Requirement</td>
<td>6</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3–6</td>
</tr>
</tbody>
</table>

A list of all courses filling general education requirements for the Bachelor of Technology can be found on the following page.

Bachelor of Technology in Construction Management

Admission Requirements

To be accepted into the program, a student must:

1. Complete a minimum of 45 college credits or equivalent with a minimum 2.0 GPA.

Within the 45 credits:

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

b. A minimum of 15 credits must be in applicable general education classes, including English 101.

OR:

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

2. Meet with a WNC counselor.

CONSTRUCTION MANAGEMENT - Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Completed</th>
<th>Fifth Semester</th>
<th>Completed</th>
<th>Sixth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Semester</td>
<td>Completed</td>
<td>Fifth Semester</td>
<td>Completed</td>
<td>Sixth Semester</td>
<td>Completed</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitution 3</td>
<td>Math/Science Course 3</td>
<td></td>
<td></td>
<td>Capstone Course 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 108B 3</td>
<td>CE 411 3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>CONS 120B 3</td>
<td>CEE 462 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 102 3</td>
<td>CONS 351 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENG 101 3</td>
<td>MGT 323 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>MATH 126 3</td>
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<tr>
<td></td>
<td>English/Comm Course 3</td>
<td>Social Science Course 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BI 101B 3</td>
<td>CEE 463 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CADD 100 3</td>
<td>CONS 451 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 114B 3</td>
<td>MGT 367 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 103 3</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>MATH 127 3</td>
<td>Seventh Semester</td>
<td>Completed</td>
<td>Capstone Course 3</td>
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<td></td>
<td>Third Semester</td>
<td>Completed</td>
<td>Fine Arts Course 3</td>
<td></td>
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<tr>
<td></td>
<td>CONS 116B 2</td>
<td>Social Science Course 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 216B 2</td>
<td>CEE 465 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 281B 3</td>
<td>CEE 466 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECON 261 3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>PHYS 100 3</td>
<td>Eighth Semester</td>
<td>Completed</td>
<td>Capstone Course 3</td>
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</tr>
<tr>
<td></td>
<td>SUR 161 or SUR 265 4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fourth Semester</td>
<td>Completed</td>
<td>Humanities Course 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math/Science Course 3</td>
<td>CEE 464 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AC 198B 2</td>
<td>CEE 495 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACC 201 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 118B 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 121B 3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>CONS 205B 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CONS 230B 2</td>
<td></td>
<td></td>
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</table>
Bachelor of Technology in Construction Management

General Education Course List

<table>
<thead>
<tr>
<th>Capstone Course</th>
<th>Credits</th>
<th>Choose from:</th>
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<tbody>
<tr>
<td></td>
<td>9</td>
<td>Communication: 412</td>
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<tr>
<td></td>
<td></td>
<td>Construction Management: 456</td>
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<table>
<thead>
<tr>
<th>English/Communications Requirements</th>
<th>Credits</th>
<th>Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business: 107, or English: 100 or 101</td>
<td>9–11</td>
<td>Communication: 101 or 102 or 113 or 213</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fine Arts Requirement</th>
<th>Credits</th>
<th>Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance: 101</td>
<td></td>
<td>Music, General: 121, 125, 134</td>
</tr>
<tr>
<td>Humanities: 101</td>
<td></td>
<td>Theatre: 100, 105, 180</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Humanities Requirement</th>
<th>Credits</th>
<th>Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Humanities: 201, 202</td>
<td>3</td>
<td>Core Humanities: 201, 202</td>
</tr>
<tr>
<td>History: 105, 106, 207, 247</td>
<td>3</td>
<td>History: 105, 106, 207, 247</td>
</tr>
<tr>
<td>Philosophy (except for PHIL 102, 105, 114)</td>
<td>3</td>
<td>Philosophy (except for PHIL 102, 105, 114)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics and Science Requirements</th>
<th>Credits</th>
<th>Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics: 126 &amp; 127, 128 or higher</td>
<td>15</td>
<td>Mathematics: 126 &amp; 127, 128 or higher</td>
</tr>
<tr>
<td>Statistics: 152</td>
<td></td>
<td>Statistics: 152</td>
</tr>
<tr>
<td>Chemistry: 100, 121, 201</td>
<td></td>
<td>Chemistry: 100, 121, 201</td>
</tr>
<tr>
<td>Environmental Studies: 100</td>
<td></td>
<td>Environmental Studies: 100</td>
</tr>
<tr>
<td>Geology: 100, 101, 103</td>
<td></td>
<td>Geology: 100, 101, 103</td>
</tr>
<tr>
<td>Physics: 100, 151, 180</td>
<td></td>
<td>Physics: 100, 151, 180</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Sciences Requirement</th>
<th>Credits</th>
<th>Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 credits must be an upper division course (300-400 level, see a counselor).</td>
<td>6</td>
<td>Anthropology: 101, 201, 202, 205, 210, 212</td>
</tr>
<tr>
<td>Core Humanities: 203</td>
<td></td>
<td>Core Humanities: 203</td>
</tr>
<tr>
<td>Geography: 106</td>
<td></td>
<td>Geography: 106</td>
</tr>
<tr>
<td>History: 101, 102, 111, 217, 295</td>
<td>3</td>
<td>History: 101, 102, 111, 217, 295</td>
</tr>
<tr>
<td>Journalism: 101</td>
<td></td>
<td>Journalism: 101</td>
</tr>
<tr>
<td>Psychology (except for PSY 210)</td>
<td>3</td>
<td>Psychology (except for PSY 210)</td>
</tr>
<tr>
<td>Sociology (except for SOC 210)</td>
<td>3</td>
<td>Sociology (except for SOC 210)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. and Nevada Constitution Requirements</th>
<th>Credits</th>
<th>Choose from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or 6 credits</td>
<td></td>
<td>Core Humanities: 203</td>
</tr>
<tr>
<td>History: 111, or</td>
<td></td>
<td>History: 111, or</td>
</tr>
<tr>
<td>History: 101 &amp; 217, or</td>
<td></td>
<td>History: 101 &amp; 217, or</td>
</tr>
<tr>
<td>History: 101 &amp; 102, or</td>
<td></td>
<td>History: 101 &amp; 102, or</td>
</tr>
<tr>
<td>Political Science: 103, or</td>
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<td>Political Science: 103, or</td>
</tr>
<tr>
<td>History and Political Science Combination (History 101, and, PSC 208)</td>
<td>3</td>
<td>History and Political Science Combination (History 101, and, PSC 208)</td>
</tr>
</tbody>
</table>

CONSTRUCTION TECHNOLOGY
Certified Inspector of Structures - State of Nevada

These licensing programs fulfill the minimum course requirements needed for licensure as a certified inspector of structures-residential. For more information please contact State of Nevada, Real Estate Division, or Bill Oney at 775-445-3353

Salary: $48,610–$76,350 / year (Nevada)
Career Outlook: Inspectors rarely are laid off when the economy slows down.

WNC Academic Division: Technology

<table>
<thead>
<tr>
<th>Total Requirements</th>
<th>Credits</th>
<th>License Requirements</th>
</tr>
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<tbody>
<tr>
<td>10 credits</td>
<td></td>
<td>CONS 260B Certified Inspectors of Structures-Residential 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONS 261B Under-Floor Inspections-Certified Inspector 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONS 262B Above-Floor Inspections for Certified Inspector 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONS 263B Supervised Residential Inspections for Certification 4</td>
</tr>
</tbody>
</table>

BACHELOR OF TECHNOLOGY - CONSTRUCTION MANAGEMENT
Mission & Outcomes

Mission: The mission of the Bachelor of Technology 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 Division.

Student Learning Outcomes: Upon completing the Construction Management Bachelor of Technology program, students will be able to demonstrate:

- Knowledge in basic economic principals, business principals 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 for planning and scheduling a construction project
- Application of relevant administrative skills, ethics, safety practices, and problem solving techniques to construction management
CRIMINAL JUSTICE PROGRAM

WNC offers associate degrees and certificates of achievement in the field of criminal justice.

**Two-year associate degrees include:**
- Criminal Justice
- Criminal Justice Transfer Program
- Law Enforcement/Academy

**One-year certificate programs are offered in the following areas for students desiring more basic skills:**
- 9-1-1 Dispatch Telecommunications
- Law Enforcement/Academy

Criminal Justice programs are listed alphabetically.

**Information, call . . . . . . . . 775-445-4282**

### ASSOCIATE OF APPLIED SCIENCE - CRIMINAL JUSTICE

**Mission & Outcomes**

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

**Student Learning Outcomes:** Students who complete Associate of Applied Science in Criminal Justice are expected to demonstrate that they
- Meet the general education requirements of WNC
- Maintain the proper attitude for law enforcement
- Articulate the legal requirements of search and seizure
- Recognize and evaluate criminal law
- Process crime scenes
- Demonstrate the difference between juvenile and adult crime
- Analyze theories for committing crime

**CRIMINAL JUSTICE**

**Associate of Applied Science**

The Criminal Justice Associate of Applied Science degree prepares students for a career in Law Enforcement, whether it be Probation and Parole, Corrections, Juvenile Justice or Law Enforcement. With this degree, students will understand the basics of criminal law and law enforcement pertaining to each of these career areas.

**Salary:** $51,810–$73,440 / year (Nevada)

**Career Outlook:** Average growth

**Good To Know:** Must be physically fit; may work weekends, holidays & nights

**WNC Academic Division:** Social Science, Education, Humanities & Public Service

**Total Requirements:** 60 credits

**Core Requirements**

21 Credits

- CRJ 101 Introduction to Criminal Justice I 3
- CRJ 102 Introduction to Criminal Justice II 3
- CRJ 103 Communication Within the Criminal Justice Field 3
- CRJ 164 Principles of Investigation 3
- CRJ 220 Criminal Procedures 3
- CRJ 230 Criminal Law 3
- CRJ 270 Introduction to Criminology 3

**Emphasis Requirements**

15 Credits

Choose 6 credits from the following:
- CRJ 106 Introduction to Corrections 3
- CRJ 155 Juvenile Justice System 3
- CRJ 211 Police in America 3
- CRJ 225 Criminal Evidence 3
- CRJ 265 Introduction to Physical Evidence 3

Choose 9 credits from the following:
- BUS 107 Business Speech Communications 3–6
- or BUS 108 Business Letters and Reports
- COM 101 Oral Communications
- or COM 113 Fundamentals of Speech Communication 3
- COT 105 Computer Literacy 3
- or IS 201 Computer Applications
- CPD 116 Substance Abuse-Fundamental Facts 3
- or CPD 117 Introduction to Counseling
- CRJ 295 Work Experience - Corrections 1–6
- or CRJ 296 Work Experience - Juvenile Justice
- or CRJ 297 Work Experience - Law Enforcement
- or CRJ 298 Work Experience - Probation and Parole
- IS 101 Introduction to Information Systems 3
- MGT 201 Principles of Management 3–6
- or MGT 212 Leadership & Human Relations
- or MGT 235 Organizational Behavior
- or MGT 283 Introduction to Human Resources Management
- SW 220 Introduction to Social Work 3–6
- or SW 230 Crisis Intervention
- Any Foreign Language 3–6
- Any other Criminal Justice course except CRJ 110B 1–9
- Any Psychology course except PSY 210 1–6
- Any Sociology course except SOC 210 1–6

**General Education Requirements**

24 Credits

- English/Communications Requirement: Recommended: ENG 101 3
  - Must be a writing course
- Humanities/Social Science Requirements: Humanities Course Required 3
- Mathematics Requirement 3
- Science Requirement 3
- U.S. and Nevada Constitution Requirements 3
- General Electives 9

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.

Note: Students are REQUIRED to complete a POST certified course to become a law enforcement officer in Nevada. This degree does NOT replace that certification.
Law Enforcement/Academy Associate of Applied Science

The purpose of the Certificate of Achievement in Law Enforcement is to ensure that the students have the necessary knowledge and skills to become a peace officer in the state of Nevada and to take and pass the Peace Officers Standards and Training test.

Student Learning Outcomes:
- Prepare to become a law enforcement officers in the state of Nevada by obtaining all necessary education and skills required by the state of Nevada
- Be properly prepared to take and pass the Police Officers Standards and Training test for the state of Nevada

ASSOCIATE OF APPLIED SCIENCE - CRIMINAL JUSTICE

Mission: The purpose the Associate of Applied Science in Criminal Justice/Law Enforcement Academy (Western Nevada State Peace Officer Academy) is to provide employment-related knowledge and skills necessary to succeed in a chosen field of study.

Student Learning Outcomes: Students who complete the Associate of Applied Science in Criminal Justice/Law Enforcement Academy are expected to demonstrate that they
- Have met the general education requirements of WNC
- Maintain proper professional attitude for law enforcement
- Articulate the legal requirements of search and seizure
- Recognize and evaluate criminal law
- Process crime scenes
- Maintain crime scenes
- Analyze theories for committing crimes
- Are prepared to take and pass the Police Officer Standards and Training test to become deputy sheriffs, police officers, juvenile probation officers, attorney general investigators, district attorney investigators, parole and probation officers, and correctional officers
Criminal Justice

Associate of Arts Transfer Emphasis

The Criminal Justice transfer emphasis is an Associate of Arts degree for students who are planning to transfer to the University of Nevada, Reno, the University of Nevada, Las Vegas, or any other four-year institution.

Salary: $57,540–$81,450 / year (Nevada)

Career Outlook: Depends on specialization; demand is strong for investigators & detectives in a security-conscious society

Good To Know: Must enforce laws, gather facts & evidence; may also work with the public in a security-conscious society

Total Requirements: 60 credits

Core Requirements

CRJ 101 Introduction to Criminal Justice I 3
CRJ 102 Introduction to Criminal Justice II 3
CRJ 106 Introduction to Corrections 3
or CRJ 211 Police in America 3
CRJ 164 Principles of Investigation 3
CRJ 222 Criminal Law and Procedure 3
or CRJ 220 Criminal Procedures & CRJ 230 Criminal Law 3
CRJ 225 Criminal Evidence 3
CRJ 270 Introduction to Criminology 3

General Education Courses 36–39 Credits

English/Communications Requirements: ENG 101 & 102 Required 6
Fine Arts Requirement 3
Humanities Requirement 6
Mathematics Requirement 3
Science Requirement 6
Social Sciences Requirement 3
U.S. and Nevada Constitution Requirements 3
General Electives 6–9
Recommended: ANTH 101, CPD 116, CPD 117, PSY 101, PSY 233, PSY 234, PSY 280, SOC 101, SW 230, up to eight credits of Spanish courses

A list of all courses fulfilling general education requirements for the Associate of Arts can be found on the Associate of Arts page.

Criminal Justice - Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
<th>Third Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 101</td>
<td>3</td>
<td>CRJ 225</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 106 or CRJ 211</td>
<td>3</td>
<td>CRJ 270</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>3</td>
<td>Program Electives</td>
<td>3</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>6</td>
<td>General Education Courses</td>
<td>6</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>CRJ 102</td>
<td>3</td>
<td>CRJ 222</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 164</td>
<td>3</td>
<td>Program Electives</td>
<td>3</td>
</tr>
<tr>
<td>Program Electives</td>
<td>3</td>
<td>General Education Courses</td>
<td>9</td>
</tr>
<tr>
<td>ENG 102</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Courses</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Associate of Arts - Criminal Justice - Mission & Outcomes

Mission: The purpose of the Associate of Arts degree is to provide the academic knowledge and skills for successful transfer to meet higher educational goals.

Student Learning Outcomes: Students who complete their Associate of Arts degree in Criminal Justice are expected to demonstrate that they

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

CRIMINAL JUSTICE

9-1-1 Dispatch Telecommunications Certificate of Achievement

The Public Safety Telecommunicator course, commonly called the 9-1-1 Dispatch program will be offered each spring semester in the evenings. Look for CRJ 260B in the WNC class schedule.

The course is designed to train students in the exciting field of emergency 9-1-1 dispatching. Candidates will learn radio communication skills, map reading skills, CPR and first aid, laws, crime classifications, and crisis intervention techniques. Participants will also be required to ride along with police and fire departments and participate in 32 hours at a dispatch center.

Participants will attend the 12-credit semester-long program on Monday, Tuesday and Wednesday evenings from 6-10 pm. Each day, before classroom instruction, candidates will spend one hour in the computer lab, working on keyboarding skills. Students will need to attend classes on the final two weekends of the semester for their final exams. Exams will consist of dispatching for the WNC police cadets during their high risk vehicle stops and domestic violence scenarios.

After graduation candidates will be prepared to apply for jobs for fire departments, police and sheriff's agencies, even taxi cab companies, ambulance companies...any place that has dispatching needs.

Salary: $39,740–$59,910 / year (Nevada)

Career Outlook: Average growth

Good To Know: Bilingual dispatchers are in great demand

WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 31 – 34 credits

Core Requirements

CRJ 260B 9-1-1 Dispatch Emergency 12
Telecommunicator Academy

Subject Requirements

CRJ 101 Introduction to Criminal Justice I 3
CRJ 102 Introduction to Criminal Justice II 3
SPAN 101B Spanish, Conversational I 3
SPAN 111 First Year Spanish I 4

General Education Requirements 10–12 Credits

English/Communications Requirements: Must include writing course 6
Human Relations Requirement 1–3
Mathematics Requirement 3

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

CRIMINAL JUSTICE: 9-1-1 Dispatch Telecommunications Certificate of Achievement

Mission & Outcomes

Mission: The Public Safety Telecommunicator course strives to enhance the student's ability to be successful in his or her career, future learning and personal life. The class component objectives are designed to promote lifelong learning habits, improving critical thinking skills, promote cultural diversity and awareness and enhance communication skills. Department of Public Service continues to respond to and anticipate needs in education and training, to better provide a safer, professional and ethical atmosphere within the various Criminal Justice vocations.

Student Learning Outcomes: Upon completing the 9-1-1 Dispatch Telecommunications Certificate of Achievement program, students will be able to:

- Meet the general education requirements of WNC
- Demonstrate knowledge of computer technology as it pertains to a dispatch center
- Demonstrate the importance of good verbal and written communications
- Demonstrate multi-tasking techniques within the dispatch setting
- Have an acute awareness of cultural diversity
- Demonstrate professional attitude for dispatchers
CUSTOMER SERVICE
Certificate of Achievement

The Customer Service Certificate of Achievement supports student opportunities in careers which focus on the service industry. It is designed to develop vital skills for success in all facets of business and industry. Emphasis focuses on effective communication, problem solving and customer satisfaction.

Salary: $23,740–$36,650 / year (Nevada)
Career Outlook: Faster than average growth
Good To Know: Positions are located throughout the country in various types of companies. Customer service representatives try to solve customer complaints.
WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 30 credits
Subject Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 103</td>
<td>Introduction to Small Business Management</td>
<td></td>
</tr>
<tr>
<td>BUS 110B</td>
<td>Human Relations For Employment</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 212</td>
<td>Leadership &amp; Human Relations</td>
<td></td>
</tr>
<tr>
<td>BUS 112B</td>
<td>Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>BUS 113B</td>
<td>Workplace Attitude Development</td>
<td>1</td>
</tr>
<tr>
<td>BUS 114B</td>
<td>Effective Listening and First Impressions</td>
<td>1</td>
</tr>
<tr>
<td>BUS 115B</td>
<td>Workplace Time Management &amp; Goal Setting</td>
<td>1</td>
</tr>
<tr>
<td>BUS 116B</td>
<td>Effective Telephone Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BUS 118B</td>
<td>Resolving Customer Complaints</td>
<td>1</td>
</tr>
<tr>
<td>BUS 119B</td>
<td>Work Decision Making &amp; Conflict Resolution</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose 6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 286B</td>
<td>Developing Your Resume</td>
<td>1</td>
</tr>
<tr>
<td>BUS 287B</td>
<td>Interviewing Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>Choose from any ACC prefix</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Choose from any CIT, COT or IS prefix</td>
<td>0.5–1</td>
<td></td>
</tr>
<tr>
<td>Choose from any MKT prefix</td>
<td>1–6</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

English/Communications Requirements:
Recommended: BUS 107, BUS 108; Must include a writing course 6
Mathematics Requirement: BUS 109B or higher level mathematics course 3

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

CUSTOMER SERVICE
Certificate of Completion Options

The Customer Service Certificates of Completion allow students to choose four, eight, or all 12 credits and earn certificates which document their efforts in this vital specialty area. Students also have the opportunity to expand on their experience and earn the 30-credit Certificate of Achievement.

Level One: 4-credit certificate
Level Two: 8-credit certificate
Level Three: 12-credit certificate

Salary: $23,740–$36,650 / year (Nevada)
Career Outlook: Faster than average growth
Good To Know: Catalog and Internet retailers are expected to grow in the next ten years and expected to hire more customer service representatives.
WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 4-12 credits
Certification Requirements

Choose 4, 8 or 12 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110B</td>
<td>Human Relations For Employment</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 212</td>
<td>Leadership &amp; Human Relations</td>
<td></td>
</tr>
<tr>
<td>BUS 112B</td>
<td>Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>BUS 113B</td>
<td>Workplace Attitude Development</td>
<td>1</td>
</tr>
<tr>
<td>BUS 114B</td>
<td>Effective Listening and First Impressions</td>
<td>1</td>
</tr>
<tr>
<td>BUS 115B</td>
<td>Workplace Time Management &amp; Goal Setting</td>
<td>1</td>
</tr>
<tr>
<td>BUS 116B</td>
<td>Effective Telephone Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BUS 118B</td>
<td>Resolving Customer Complaints</td>
<td>1</td>
</tr>
<tr>
<td>BUS 119B</td>
<td>Work Decision Making &amp; Conflict Resolution</td>
<td>1</td>
</tr>
</tbody>
</table>
### DEAF STUDIES

#### Associate of Arts

The Deaf Studies degree will prepare students for transfer to a bachelor’s program/degree in Deaf Studies or a related academic field. Courses 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 which govern interpreting.

**Total Requirements:** 60 credits

**General Education Courses**
- 9 credits from Humanities Requirement
- 6 credits from English/Communications Requirements
- 6 credits from Mathematics Requirement
- 3 credits from Social Sciences Requirement
- 3 credits from U.S. and Nevada Constitution Requirements

**Program Requirements**
- AM 145: American Sign Language I 4 credits
- AM 146: American Sign Language II 4 credits
- AM 147: American Sign Language III 4 credits
- AM 148: American Sign Language IV 4 credits
- AM 151: Fingerspelling I 1 credit
- AM 152: Fingerspelling II 1 credit
- AM 153: Deaf Culture 3 credits
- AM 154: Deaf History 3 credits

**Communication and Fine Arts**
- Good To Know: Interpreters may be paid by the day, often by the courts or schools. New laws may require more interpreters.
- Faster than average growth
- Career Outlook: $31,810 – $44,970/year (Nevada)

### AMERICAN SIGN LANGUAGE

#### Certificate of Achievement

**WNC Academic Division:** Communication and Fine Arts

**Total Requirements:** 30 credits

**Program Requirements**
- AM 145: American Sign Language I 4 credits
- AM 146: American Sign Language II 4 credits
- AM 147: American Sign Language III 4 credits
- AM 148: American Sign Language IV 4 credits
- AM 151: Fingerspelling I 1 credit
- AM 152: Fingerspelling II 1 credit

**General Education Requirements**
- English/Communications Requirements: Must include a writing course 6 credits
- Human Relations Requirement 3 credits
- Mathematics Requirement 3 credits

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

### DEAF STUDIES - Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
<th>Third Semester</th>
<th>Completed</th>
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</thead>
<tbody>
<tr>
<td>AM 145</td>
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<td>AM 147</td>
<td>4</td>
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<tr>
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<td>AM 151</td>
<td>1</td>
</tr>
<tr>
<td>AM 153</td>
<td>3</td>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
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<th>General Education Courses</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 146</td>
<td>4</td>
<td>General Education Courses</td>
<td>6</td>
</tr>
<tr>
<td>AM 154</td>
<td>3</td>
<td>Fourth Semester Completed</td>
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</tr>
<tr>
<td>General Education Courses</td>
<td>9</td>
<td>AM 146</td>
<td>4</td>
</tr>
<tr>
<td>AM 152</td>
<td>1</td>
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</table>

### ASSOCIATE OF ARTS - DEAF STUDIES & AMERICAN SIGN LANGUAGE CERTIFICATE OF ACHIEVEMENT - Mission & Outcomes

**Associate of Arts Mission:** The mission of the Western Nevada College Deaf Studies A.A. Degree Program is to provide 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.

**Certificate of Achievement Mission:** The mission of the Western Nevada College American Sign Language Certificate of Completion Program is to provide quality education to students, thus developing their comprehensive expressive/receptive skills in American Sign Language, fingerspelling fluency and general knowledge of deafness. Students are provided a linguistic 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 Arts program and/or American Sign Language Certificate of Achievement students will be able to:
- Produce basic expressive/receptive language skills
- Demonstrate appropriate ASL linguistic and grammatical structure in signing
- Demonstrate functional language aptitude in American Sign Language
- Produce basic expressive/receptive signing of personal heredity and cultural traditions
- Produce basic expressive/receptive signing of biographic and autobiographic events
- Produce basic expressive/receptive signing of number systems - functional & abstract
- Produce basic expressive/receptive signing of major life activities and special occasions
- Demonstrate knowledge of linguistic, cultural, educational and social aspects of people who are deaf or hard of hearing
- Demonstrate basic knowledge of historical, political, auditory, educational and linguistic 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.
DESKTOP PUBLISHING
Certificate of Achievement

WNC Academic Division: Technology

Total Requirements: 30 credits

Subject Requirements: 21 Credits
COT 204 Using Windows 3
COT 222 Desktop Publishing With Word Processing 3
COT 223 Advanced Desktop Publishing 3
GRC 118 Computer Graphics - Print Media 3
IS 101 Introduction to Information Systems 3

Choose six credits from the following classes:
GRC 183 Electronic Imaging 3
GRC 283B Electronic Imaging 3
CIT 151 Beginning Web Development 3
or GRC 175 Web Design and Publishing I 3
IS 201 Computer Applications 3
MKT 210 Marketing Principles 3

General Education Requirements: 9 Credits
English/Communications Requirements
Recommended: BUS 108; must include a writing course 3
Human Relations Requirement: Recommended: BUS 110B 3
Mathematics Requirement: Recommended: BUS 109B 3

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

DESKTOP PUBLISHING - Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
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<tbody>
<tr>
<td>English Course</td>
<td>3</td>
<td>Mathematics Course</td>
<td>3</td>
</tr>
<tr>
<td>COT 222</td>
<td>3</td>
<td>Human Relations Course</td>
<td>3</td>
</tr>
<tr>
<td>GRC 118</td>
<td>3</td>
<td>COT 204</td>
<td>3</td>
</tr>
<tr>
<td>IS 101</td>
<td>3</td>
<td>COT 223</td>
<td>3</td>
</tr>
<tr>
<td>Program Elective</td>
<td>3</td>
<td>Program Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

DESKTOP PUBLISHING - Mission & Outcomes

Mission: The purpose of the Certificate in Desktop Publishing in business is to provide the knowledge and skills necessary to succeed in the current business environment.

Student Learning Outcomes: Upon completing the Certificate in Desktop Publishing program, students will be able to:
• Provide employment related knowledge and skills
• Know subject matter appropriate to emphasis of certificate
• Understand desktop publishing layout and its importance to the business environment
• Demonstrate oral, written, and computational skills
• Utilize appropriate resources to remain current in the field
**DRAFTING TECHNOLOGY - ARCHITECTURAL**

**Associate of Applied Science**

The Drafting Technology-Architectural emphasis is designed to concentrate course work in architecturally oriented subjects. Students will be taking several courses offered through the Construction Technology Program.

**Science**
- **Requirement:** Physics Recommended

**Mathematics**
- **Requirement:** MATH 127 or higher

**Human Relations**
- **Requirement:** Must include a writing course

**English/Communications**
- **Requirement:** Recommended: BUS 108

**Total Requirements:** 60 credits

### Core Requirements
- Total Credits: 12
  - CADD 100: Introduction to Computer Aided Drafting 3
  - CADD 105: Intermediate Computer-Aided Drafting 3
  - CADD 200: Advanced Computer Aided Drafting 3
  - DFT 100: Basic Drafting Principles 3

### Emphasis Requirements
- Total Credits: 24
  - BI 101B: Introduction to Building Codes 3
  - CADD 120B: Architectural Drafting I 3
  - CADD 225B: Architectural Computer Aided Drafting I 3
  - CONS 108B: Construction Materials and Methods 3
  - CONS 120B: Blueprint Reading and Specification 3

Choose 6 credits from the following program electives:
- CADD 198B: Special Topics in CADD 3
- CADD 210B: CADD Project 3
- CADD 295B: Independent Study 3
- CONS 114B: Soils, Sitemap, Concrete and Testing 3
- CONS 118B: Construction Contract Documents 3
- CONS 121B: Principles of Construction Estimating 3
- CONS 201B: Regulatory Agencies 1
- CONS 282B: Construction Law 2

* May be taken only if not previously used to meet degree requirements.

### General Education Requirements
- Total Credits: 24
  - English/Communications Requirement: Recommended: BUS 107, BUS 108; Must include a writing course 6
  - Human Relations Requirement: Recommended: BUS 107 3
  - Mathematics Requirement: MATH 110B, MATH 127 or higher level math course, except STAT 152 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.

**WNC Academic Division:** Technology

### WNC Academic Division: Technology

**DRAFTING TECHNOLOGY - ARCHITECTURAL**

**Certificate of Achievement**

<table>
<thead>
<tr>
<th>Total Requirements: 31 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subject Requirements</strong></td>
</tr>
<tr>
<td>CADD 100: Introduction to Computer Aided Drafting</td>
</tr>
<tr>
<td>CADD 105: Intermediate Computer-Aided Drafting</td>
</tr>
<tr>
<td>CADD 120B: Architectural Drafting I</td>
</tr>
<tr>
<td>CONS 120B: Blueprint Reading and Specification</td>
</tr>
<tr>
<td>DFT 100: Basic Drafting Principles</td>
</tr>
<tr>
<td>CADD electives</td>
</tr>
</tbody>
</table>

**General Education Requirements**
- Total Credits: 10
  - English/Communications Requirements: Recommended: BUS 108; Must include a writing course 6
  - Human Relations Requirement 1
  - Mathematics Requirement: MATH 110B, MATH 127 or higher level math course, except STAT 152 3

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

**Note:** MATH 110B does not fulfill the requirement for the Associate of Drafting Technology - Architectural Emphasis.

**Technology**

**Specialize in drafting features of buildings & other structures**

**Good To Know:**
- Drafters, but slower than average growth
- Depends on specialty - greatest demand is for architectural & civil

**Career Outlook:** $40,550–$57,040/year (Nevada)

**WNC Academic Division:** Technology

### WNC Academic Division: Technology

**DRAFTING TECHNOLOGY - ARCHITECTURAL - Mission & Outcomes**

**Mission:** The Mission of Drafting Technology is to: Provide drafting technology courses for traditional college students and transitional employees. The course work will prepare students with the necessary skills for entry level employment in a professional drafting office setting using current Computer Aided Drafting (CAD) software and processes. Additionally provide those currently employed in CAD/Drafting offices with courses to update their skills in using current software and processes.

**Student Learning Outcomes:** Upon completing the Drafting Technology - Architectural Certificate of Achievement program, students will be able to:
- Create and place two dimensional geometry
- Place dimensions on drawings
- Development and use of standard symbols and libraries
- Draw floor plans
- Draw Building Sections and Details
- Draw Building Elevations

**DRAFTING TECHNOLOGY - ARCHITECTURAL - Suggested Course Sequence**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
<th>Third Semester</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BUS 107</td>
<td>3</td>
<td>BUS 110B</td>
<td>3</td>
</tr>
<tr>
<td>CADD 100</td>
<td>3</td>
<td>CADD 200</td>
<td>3</td>
</tr>
<tr>
<td>CADD 120B</td>
<td>3</td>
<td>CADD 225B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 120B</td>
<td>3</td>
<td>Program Elective</td>
<td>3</td>
</tr>
<tr>
<td>DFT 100</td>
<td>3</td>
<td>Science Course</td>
<td>3</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>BUS 108</td>
<td>3</td>
<td>BI 101B</td>
<td>3</td>
</tr>
<tr>
<td>CADD 105</td>
<td>3</td>
<td>CADD 210B or CADD 290B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108B</td>
<td>3</td>
<td>Program Elective</td>
<td>3</td>
</tr>
<tr>
<td>MATH 127</td>
<td>3</td>
<td>Humanities/Social Science Course</td>
<td>3</td>
</tr>
<tr>
<td>Science Course</td>
<td>3</td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** MATH 110B does not fulfill the requirement for the Associate of Drafting Technology - Architectural Emphasis.
DRAFTING TECHNOLOGY - CIVIL
Associate of Applied Science

The Drafting Technology Civil Drafting emphasis is designed to concentrate course work in civil drafting oriented subjects. Students will take several courses offered through the Construction Technology program.

Salary: $40,550–$57,040 / year (Nevada)
Career Outlook: Depends on specialty - greatest demand is for architectural & civil drafters, but slower than average growth
Good To Know: Specialize in drawings & maps of highways, pipelines & water systems

WNC Academic Division: Technology

Total Requirements: 60 credits

Core Requirements
- CADD 100 Introduction to Computer Aided Drafting 3
- CADD 105 Intermediate Computer-Aided Drafting 3
- CADD 200 Advanced Computer Aided Drafting 3
- DFT 100 Basic Drafting Principles 3

Emphasis Requirements
- CADD 230B Civil Drafting I 3
- CEE 140 Introduction to Civil Engineering 2
- CONS 114B Soils, Sitework, Concrete and Testing 3
- CONS 120B Blueprint Reading and Specification 3
- SUR 119B Construction Surveying 2

Choose 3 credits from the following capstone courses:
- CADD 231B Civil Drafting II 3
- CADD 290B Internship in CADD 3

Choose 8 credits from the following program electives:
- CADD 210B CADD Project 3
- CADD 225B Architectural Computer Aided Drafting I 3
- CADD 290B* Internship in CADD 3
- CONS 118B Construction Contract Documents 3
- CONS 121B Principles of Construction Estimating 3
- CONS 201B Regulatory Agencies 1
- CONS 220B Advanced Sitework Estimating 3
- CONS 282B Construction Law 1

* May be taken only if not previously used to meet degree requirements.

General Education Requirements
- English/Communications Requirement: Recommended: BUS 107, BUS 108
  - Must include a writing course 6
- Human Relations Requirement: Recommended: BUS 110B 3
- Humanities/Social Science Requirements 3
- Mathematics Requirement: MATH 127 or higher 3
- Science Requirement: Physics Recommended 6
- U.S. and Nevada Constitution Requirements 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.

ASSOCIATE OF APPLIED SCIENCE DRAFTING TECHNOLOGY - CIVIL

Mission & Outcomes

Mission: The mission 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 in Drafting Technology will be able to demonstrate:
- knowledge of the subject matter appropriate to the Drafting Technology
- ability to do the following:
  - acquire skills and perform tasks necessary for employment for a career enhancement in the drafting field
  - present themselves effectively to a potential employer
  - demonstrate effective communication and computation skills appropriate to the drafting field
  - utilize appropriate resources to remain current in the drafting field

www.wnc.edu
### Drafting Technology - Mechanical

**Associate of Applied Science**

The Drafting Technology-Mechanical emphasis is designed to concentrate course work in subjects related to manufacturing and machining.

**Salary:** $38,600–$62,510 / year (Nevada)

**Career Outlook:** Slower than average growth

**Good To Know:** Most use computer-aided drafting (CAD) systems

**WNC Academic Division:** Technology

---

**Total Requirements:** 60 credits

**Core Requirements:** 12 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 100</td>
<td>3</td>
</tr>
<tr>
<td>CADD 105</td>
<td>3</td>
</tr>
<tr>
<td>CADD 200</td>
<td>3</td>
</tr>
<tr>
<td>DFT 100</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emphasis Requirements:** 24 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 140</td>
<td>3</td>
</tr>
<tr>
<td>CADD 141B</td>
<td>3</td>
</tr>
<tr>
<td>CADD 245</td>
<td>3</td>
</tr>
<tr>
<td>COT 204</td>
<td>3</td>
</tr>
<tr>
<td>DFT 110B</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 credits from the following Capstone Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 210B</td>
<td>3</td>
</tr>
<tr>
<td>CADD 290B</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 6 credits from the following program electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 210B</td>
<td>3</td>
</tr>
<tr>
<td>CADD 242</td>
<td>3</td>
</tr>
<tr>
<td>CADD 260B</td>
<td>3</td>
</tr>
<tr>
<td>CADD 290B*</td>
<td>3</td>
</tr>
<tr>
<td>CADD 295B</td>
<td>3</td>
</tr>
<tr>
<td>MTT 105B</td>
<td>3</td>
</tr>
</tbody>
</table>

* May be taken only if not previously used to meet degree requirements.

**General Education Requirements:** 24 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

---

**Certificate of Achievement**

**Total Requirements:** 31 credits

**Subject Requirements:** 21 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 100</td>
<td>3</td>
</tr>
<tr>
<td>CADD 105</td>
<td>3</td>
</tr>
<tr>
<td>CADD 141B</td>
<td>3</td>
</tr>
<tr>
<td>DFT 100</td>
<td>3</td>
</tr>
<tr>
<td>DFT 110B</td>
<td>3</td>
</tr>
<tr>
<td>CADD Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

**General Education Requirements:** 10 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

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

---

**Student Learning Outcomes:**

- Apply concepts and principles of CAD/Drafting to realistic situations
- Create and place two dimensional geometry
- Place dimensions on drawings
- Develop and use of standard symbols and libraries
- Create orthographic drawings
- Create section views
- Place annotation on drawings
- Create and insert blocks
- Use Paper Space and External References
- Create and place three dimensional geometry
- Apply concepts and principles of CAD/Drafting to realistic situations

---

**ASSOCIATE OF APPLIED SCIENCE DRAFTING TECHNOLOGY - MECHANICAL**

**Mission & Outcomes**

**Mission:** The mission 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 in Drafting Science will be able to demonstrate:

- Knowledge of the subject matter appropriate to the drafting technology.
- Are able to do the following:
  - Acquire skills and perform tasks necessary for employment for a career enhancement in the drafting field.
  - Demonstrate effective communication and computation skills appropriate to the drafting field.
  - Utilize appropriate resources to remain current in the drafting field.

---

**DRAFTING TECHNOLOGY - MECHANICAL - Suggested Course Sequence**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>BUS 107</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADD 100</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COT 204</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DFT 100</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DFT 110B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>BUS 110B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADD 105</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADD 140</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 127</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

---

**DRAFTING TECHNOLOGY - MECHANICAL - Mission & Outcomes**

**Mission:** The mission of Drafting Technology is to provide drafting technology courses for traditional college students and transitional employees. The course work will prepare students with the necessary skills for entry level employment in drafting offices with courses to update their skills in using current software and processes. Additionally, provide those currently employed in CAD Drafting offices with courses to update their skills in using current software and processes.

**Student Learning Outcomes:** Upon completing the Drafting Technology - Mechanical Certificate of Achievement program, students will be able to:

- Create and place two dimensional geometry
- Place dimensions on drawings
- Development and use of standard symbols and libraries.
- Create orthographic drawings
- Create section views
- Place annotation on drawings
- Create and insert blocks
- Use Paper Space and External References
- Create and place three dimensional geometry
- Apply concepts and principles of CAD/Drafting to realistic situations
EARLY CHILDHOOD EDUCATION

WNC’s Early Childhood Education program is an occupational preparation program which concentrates on the teaching skills needed to work with young children and parents. Students may earn an Early Childhood Education Certificate of Achievement or an Associate of Applied Science degree to help them gain employment in the child care or related field.

Some courses transfer to local colleges and universities, providing a “career ladder” opportunity for students who are seeking additional training for jobs in the care and education of infants, preschoolers and handicapped young children.

The curriculum includes experience with children to develop teaching skills; classes in human development and interpersonal relationships; and instruction on how to select, plan and present learning activities.

Successful completion of the Early Childhood Education certificate or associate degree is designed to qualify students for such employment opportunities as assistants, teachers and directors in child care centers; teachers and assistants in preschools; home day care providers and other child/family related careers.

EARLY CHILDHOOD EDUCATION
Certificate of Achievement

Salary: $29,811–$49,837 / year (Nevada)
Career Outlook: Growth for teachers will be faster than average.
Good To Know: Teachers who have advanced degrees earn the most money. Teachers can earn more money by teaching in the summer. More children will be entering preschool.

WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 30 credits

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 121 Parent Care Relations</td>
<td>1</td>
</tr>
<tr>
<td>ECE 122 Observation Skills</td>
<td>1</td>
</tr>
<tr>
<td>ECE 129 Environment For Infant &amp; Toddler</td>
<td>1</td>
</tr>
<tr>
<td>ECE 204 Principles of Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>ECE 231 Preschool Practicum: Early Childhood Lab</td>
<td>3</td>
</tr>
<tr>
<td>ECE 250 Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECE 251 Curriculum in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>HDFS 201 Life Span Human Development</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 108</td>
<td>6</td>
</tr>
</tbody>
</table>

Program Electives

Choose 9 credits from the following:

ECE 168 are recommended

Other related Early Childhood Education courses (ECE 123 and ECE 168 are recommended) | 1–6     |

Psychology courses (except Statistical Methods) | 3       |

General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 108</td>
<td>6</td>
</tr>
<tr>
<td>BUS 109B</td>
<td>3</td>
</tr>
</tbody>
</table>

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

ASSOCIATE OF APPLIED SCIENCE DEGREE & CERTIFICATE OF ACHIEVEMENT
EARLY CHILDHOOD EDUCATION - Mission & Outcomes

Associate of Applied Science

MISSION: The purpose of the Associate of Applied Science degree in Early Childhood Education is to provide academic knowledge and skill for employment in child care or pre-kindergarten programs and related family service fields. The degree will meet educational criteria for employment in publicly funded programs and prepare the student for possible transfer to other colleges and universities to meet higher educational and professional goals.

STUDENT LEARNING OUTCOMES - Students who complete the Associate of Applied Science degree in Early Childhood Education are expected to demonstrate that they:

• have met the general education student learning outcomes.
• know the subject matter appropriate to Early Childhood Education.
• demonstrated leadership and supervisory skills.

Certificate of Achievement

MISSION: The Early Childhood Education Certificate of Achievement will provide the academic knowledge and skills for employment in a variety of child care settings.

STUDENT LEARNING OUTCOMES - Upon completion of the Early Childhood Education certificate program, the student will be able to:

• recognize and organize a physical environment that supports age appropriate development in young children.
• plan and implement activities that meet the psychosocial, physical and cognitive needs of children in a child care setting.
• develop strategies for maintaining a safe and healthy child care environment.
ENGINEERING SCIENCE

Associate of Science

The Engineering Science degree program is designed for students planning to obtain a four-year engineering degree. Engineering is the practical application of scientific theory and principles, and this program develops a strong foundation in mathematics and physical science. It also provides an introduction to the fundamental aspects of engineering which are developed more thoroughly in the remaining two years of the baccalaureate program. Students who complete the associate degree can transfer to other colleges or universities in many engineering disciplines including civil, chemical, computer, electrical, geological, mechanical, metallurgical, mining, computer science, and engineering physics. All courses in the Engineering Science program are approved for direct transfer to the College of Engineering and the Mackey School of Earth Sciences and Engineering at the University of Nevada, Reno, and up to 64 WNC credits may be directly applied toward a baccalaureate degree.

Salary: $66,090–$100,190/year (Nevada)
Career Outlook: Average growth; employment opportunities may depend on economy and region
Good To Know: Work with computers; often work in teams
WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 64 credits
Emphasis Requirements: 36-38 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CS 135</td>
<td>Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Introduction to Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 182</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 283</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>ME 241</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>or CPE 201</td>
<td>Introduction to Computer Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ME 242</td>
<td>Dynamics</td>
<td>3–4</td>
</tr>
<tr>
<td>or EE 220</td>
<td>Circuits I</td>
<td></td>
</tr>
<tr>
<td>&amp; EE 220L</td>
<td>Circuits I Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHYS 180</td>
<td>Engineering Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 180L</td>
<td>Engineering Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 181</td>
<td>Engineering Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 181L</td>
<td>Engineering Physics II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Emphasis Requirements: Program Electives: 2-4 Credits

Choose 2-4 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 122</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CS 202</td>
<td>Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>EE 291</td>
<td>Computer Methods For Electrical Engineers</td>
<td>3</td>
</tr>
<tr>
<td>EE 296</td>
<td>Internship I</td>
<td>1</td>
</tr>
<tr>
<td>MATH 285</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>ME 198</td>
<td>Cooperative Training Report</td>
<td>1</td>
</tr>
<tr>
<td>ME 298</td>
<td>Cooperative Training Report</td>
<td>1</td>
</tr>
<tr>
<td>METE 250</td>
<td>Elements of Material Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 182</td>
<td>Engineering Physics III</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYS 182L</td>
<td>Engineering Physics III Lab</td>
<td></td>
</tr>
</tbody>
</table>

or higher level

General Education Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences Requirements</td>
<td>6</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Note: Most engineering courses are not offered every semester, so technical and non-technical electives should be scheduled to permit the student to enroll in those engineering courses which are most pertinent to his/her preferred discipline of engineering.

ASSOCIATE OF APPLIED SCIENCE - ENGINEERING SCIENCE

Mission & Outcomes

Mission: The mission of the Associate of Science with an emphasis in Engineering is to prepare students for successful transfer into civil, chemical, computer, electrical, geological, mechanical, metallurgical, or mining engineering, or computer science, or engineering physics.

Student Learning Outcomes: Students who complete an Associate of Science with an emphasis in Engineering at WNC are expected to demonstrate that they:

• have met the general education student learning outcomes
• are able to identify, formulate and solve engineering problems
• are able to design and conduct experiments as well as to analyze and interpret data
• can succeed at their transfer institution.
FINITE ARTS
Associate of Arts

The Associate of Arts degree in Fine Arts is designed to provide training in the breadth of skills required for many careers in the fine arts field as well as to satisfy many of the lower division requirements for the Bachelor of Arts and Bachelor of Fine Arts degrees at most four-year institutions.

Salary: $23,660–$60,650 / year (Nevada)

Career Outlook: Average growth

Good To Know: Many fine artists are self-employed; Major employers include publishers, designers and advertising companies

WNC Academic Division: Communication and Fine Arts

Total Requirements: 60 credits

Program Requirements: 21 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Visual Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>or ART 141</td>
<td>Introduction to Digital Photography I</td>
<td>3</td>
</tr>
<tr>
<td>or ART 243*</td>
<td>Digital Imaging I</td>
<td></td>
</tr>
<tr>
<td>ART 160</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one 3-credit course from the following 2-D courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 127*</td>
<td>Watercolor I</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one 3-credit course from the following 3-D courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 216</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 211</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
</tbody>
</table>

* Courses satisfy WNC degree requirements but will not transfer directly to the University of Nevada, Reno as the same course. They may transfer as electives.

Program Requirements: Program Electives: 9 Credits

Select 9 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 102</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 105*</td>
<td>Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>ART 111*</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 115*</td>
<td>Beginning Clay Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 127*</td>
<td>Watercolor I</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ART 141*</td>
<td>Introduction to Digital Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ART 142*</td>
<td>Introduction to Digital Photography II</td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>Life Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 208*</td>
<td>Fiber Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 211</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART 216</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 217</td>
<td>Sculpture II</td>
<td>3</td>
</tr>
<tr>
<td>ART 218*</td>
<td>Alternative Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Beginning Printmaking: Relief</td>
<td>3</td>
</tr>
<tr>
<td>ART 227*</td>
<td>Watercolor II</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 232</td>
<td>Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART 235</td>
<td>Photography II</td>
<td>3</td>
</tr>
<tr>
<td>ART 236</td>
<td>Photography III</td>
<td>3</td>
</tr>
<tr>
<td>ART 243*</td>
<td>Digital Imaging I</td>
<td>3</td>
</tr>
<tr>
<td>ART 244*</td>
<td>Digital Imaging II</td>
<td>3</td>
</tr>
<tr>
<td>ART 260</td>
<td>Survey Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 261</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 298</td>
<td>Portfolio Emphasis</td>
<td>3</td>
</tr>
</tbody>
</table>

* Courses satisfy WNC degree requirements but will not transfer directly to the University of Nevada, Reno as the same course. They may transfer as electives.

General Education Requirements: 33 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Humanities Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences Requirement</td>
<td>9</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Finite Arts - Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Completed</th>
<th>Course</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>ART 100</td>
<td>3</td>
<td>ART 135, ART 141 or ART 243 (Photography)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Required Course</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ART 216 or ART 211</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>ART 160</td>
<td>3</td>
<td>(3-D Required Course)</td>
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<td></td>
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<td>General Education Courses</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 231, ART 127 or ART 124</td>
<td>3</td>
<td>Fourth Semester</td>
<td>9</td>
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<tr>
<td></td>
<td>General Education Courses</td>
<td>9</td>
<td>Art Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>General Education Courses</td>
<td>9</td>
</tr>
</tbody>
</table>

Finite Arts - Mission & Outcomes

Mission: The Associate of Arts degree in Fine Arts is designed to provide training in the breadth of skills required for many careers in the fine arts field as well as to satisfy many of the lower division requirements for the Bachelor of Arts and Bachelor of Fine Arts degrees at most four-year institutions.

Student Learning Outcomes: Upon completing the Fine Arts Associate of Arts program, students will be able to:

1. Have an understanding of the Fine Arts
2. Have developed their problem-solving, creative, and critical thinking skills
3. Have developed their creative capacities
4. Have participated in at least one cultural activity, such as a visit to a gallery, museum, or attended a community art lecture or event
5. Have developed an appreciation for the arts
GEOGRAPHIC INFORMATION SYSTEMS (GIS) - Mission & Outcomes

Mission: The purpose of the Geographic Information System Certificate of Achievement is to provide basic knowledge and skills necessary to enter the Geographic Information System field.

Student Learning Outcomes: Graduates are expected to be able to:
- identify spatial problems
- demonstrate technical skills
- implement analysis concepts
- work collaboratively
- create industry based presentations

ASSOCIATE OF APPLIED SCIENCE GEOGRAPHIC INFORMATION SYSTEMS (GIS) - Mission & Outcomes

Mission: The Associate of Applied Science degree in Geographic Information Systems will provide employment-related knowledge and skills necessary to succeed in the Geographic Information Systems 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 Geographic Information Systems (GIS) graduates are expected to:
- identify spatial problems
- demonstrate technical skills
- implement analysis concepts
- work collaboratively and create industry based presentations
**GEOSCIENCES**  
*Associate of Science*

The Geosciences emphasis is designed to provide a strong foundation in earth and physical sciences, and will prepare students for transfer into many disciplines, including geology, geography, environmental science, and science teaching. All courses in the Geosciences emphasis are approved for direct transfer to University of Nevada, Reno and up to 64 WNC credits may be directly applied toward a baccalaureate degree. Seek counseling to choose appropriate courses for a four-year major.

**Salary:** $61,100–$93,880 / year (Nevada)  
**Career Outlook:** Slower growth than average  
**Good To Know:** Often requires graduate degrees for career advancement

**WNC Academic Division:** Science, Mathematics & Engineering

**Total Requirements:** 60 – 62 credits

**Emphasis Requirements:** Program Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 103</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 104</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>1</td>
</tr>
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**Choose one course:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100 General Biology For Non-Science Majors</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 190 Introduction to Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 191 Introduction to Organismal Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose one course:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100 Molecules and Life in the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 121 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 122 General Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Choose one course:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 106 Introduction to Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 200 World Regional Geography</td>
<td>3</td>
</tr>
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</table>

**Emphasis Requirements: Program Electives**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ATMS 117 Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 190L Introduction to Cell and Molecular Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 191L Introduction to Organismal Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENV 100 Humans and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130 Fundamentals of Environmental Pollution: Concepts and Methods</td>
<td>3</td>
</tr>
<tr>
<td>ENV 210 Land Use Management</td>
<td>3</td>
</tr>
<tr>
<td>ENV 292 Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 100 Earthquakes, Volcanoes, and Natural Disasters</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 102 Earth and Life Through Time</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 105 Introduction to Geology of National Parks</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 127 Prehistoric Life</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 132 Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 201 Geology of Nevada</td>
<td>3</td>
</tr>
<tr>
<td>GIS 109 Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GIS 205 GIS Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100 Introductory Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 151 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 180 Engineering Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 180L Engineering Physics I Lab</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 152 General Physics II</td>
<td>4</td>
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<tr>
<td>or PHYS 181 Engineering Physics II</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 181L Engineering Physics II Lab</td>
<td>3</td>
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</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirements: ENG 101, ENG 102</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences Requirements</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Note:** Students planning to transfer to UNR or another university are encouraged to select courses that fulfill core and major requirements, which will vary depending on major. Consult the current UNR or appropriate university catalog or an advisor for degree requirements.

---

**ASSOCIATE OF SCIENCE - GEOSCIENCES**

**Mission & Outcomes**

Mission: The mission of the Associate of Science degree, Geosciences Emphasis is to provide a strong foundation in earth and physical sciences, and prepare students for transfer into many disciplines, including geology, geography, environmental science, and science teaching.

Student Learning Outcomes: Students who complete an Associate of Science degree, Geosciences emphasis, at WNC are expected to demonstrate that they:

- have met the general education student learning outcomes
- have gained a basic understanding of:
  - physical processes operating on and within the Earth, including plate tectonics and formation of rocks and minerals
  - common rocks and minerals identification
  - map reading and interpretation
  - processes operating in the atmosphere
  - the spatial distribution of physical and human phenomena
- have gained a basic knowledge of biology and chemistry
- can succeed at their transfer institutions
**GRAPHIC COMMUNICATIONS**  
*Associate of Applied Science*

WNC’s Graphic Communications program is designed for students who want quick access to career fields involving print design, web design, multimedia, digital video, and animation.

**Salary:** $34,910–$59,220 / year (Nevada)

**Career Outlook:** Average growth. The need is due to expansion of the Internet & need for web page design

**Good To Know:** Creativity is an important skill; more talented designers can earn more money.

**WNC Academic Division:** Communication and Fine Arts

**Total Requirements:** 63 credits

**Program Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Visual Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 109</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>GRC 118</td>
<td>Computer Graphics - Print Media</td>
<td>3</td>
</tr>
<tr>
<td>GRC 119</td>
<td>Computer Graphics - Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>GRC 144B</td>
<td>Electronic Layout and Typography</td>
<td>3</td>
</tr>
<tr>
<td>GRC 156</td>
<td>Computer Illustration I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 175</td>
<td>Web Design and Publishing I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 181B</td>
<td>Digital Video I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 183</td>
<td>Electronic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>GRC 188</td>
<td>Web Animation and Interactivity I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 283B</td>
<td>Electronic Imaging II</td>
<td>3</td>
</tr>
<tr>
<td>GRC 294B</td>
<td>Professional Portfolio</td>
<td>3</td>
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</table>

Choose 3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 115</td>
<td>Beginning Clay Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 127</td>
<td>Watercolor I</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ART 141</td>
<td>Introduction to Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 160</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>ART 211</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 216</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 250</td>
<td>Survey Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 251</td>
<td>Survey of Art History II</td>
<td>3</td>
</tr>
<tr>
<td>GRC 281B</td>
<td>Digital Video II</td>
<td>3</td>
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</table>

Choose to emphasize web or graphic design.

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRC 244B</td>
<td>Electronic Layout and Typography II</td>
<td>3</td>
</tr>
<tr>
<td>GRC 275B</td>
<td>Web Design and Publishing I</td>
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</table>

**General Education Requirements**

18 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English/Communications Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations Requirement: PSY or SOC recommended</td>
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</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 Requirements</td>
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</tr>
</tbody>
</table>

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.

**CERTIFICATE OF ACHIEVEMENT - GRAPHIC COMMUNICATIONS**  
*Mission & Outcomes*

**Mission:** The purpose of the Graphic Communications Certificate of Achievement is to provide basic knowledge and skills necessary to enter the graphic communications field.

**Student Learning Outcomes:** Graphic Communications certificate program graduates should acquire basic skills and perform tasks necessary for employment or career enhancement.

**GRAPHIC COMMUNICATIONS - Suggested Course Sequence**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Completed</th>
<th>Second Semester</th>
<th>Completed</th>
<th>Third Semester</th>
<th>Completed</th>
<th>Fourth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Ed</td>
<td>3</td>
<td></td>
<td>General Ed</td>
<td>3</td>
<td>6</td>
<td></td>
<td>General Ed</td>
<td>3</td>
</tr>
<tr>
<td>ART 100</td>
<td>3</td>
<td></td>
<td>ART 101</td>
<td>3</td>
<td>GRC 144B</td>
<td>3</td>
<td>GRC 181B</td>
<td>3</td>
</tr>
<tr>
<td>GRC 118</td>
<td>3</td>
<td></td>
<td>GRC 119</td>
<td>3</td>
<td>GRC 188</td>
<td>3</td>
<td>GRC 283B</td>
<td>3</td>
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<tr>
<td>GRC 183</td>
<td>3</td>
<td></td>
<td>GRC 185</td>
<td>3</td>
<td>GRC 175</td>
<td>3</td>
<td>Program Elective</td>
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</tr>
</tbody>
</table>

**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 research design problems, demonstrate technical skills, implement design concepts, work collaboratively, and perform successful presentations.

**www.wnc.edu**
MACHINE TOOL TECHNOLOGY
Associate of Applied Science

The Machine Tool Technology program provides training for students who plan to enter the machine trades field and upgrading for those in the field who desire additional skills. The program is competency based, allowing students to enter at their own level and progress at their own pace. Hands-on learning is stressed, allowing students to take as many laboratory hours as possible.

Salary: $32,100–$50,900 / year (Nevada)
Career Outlook: Slower than average growth, but good jobs available due to difficulty finding skilled workers
Good To Know: Often work with computerized numerical control (CNC) machines

WNC Academic Division: Technology

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT 110B</td>
<td>Blueprint Reading For Industry</td>
<td>3</td>
</tr>
<tr>
<td>or CONS 120B</td>
<td>Blueprint Reading and Specification</td>
<td></td>
</tr>
<tr>
<td>MTT 105B</td>
<td>Machine Shop I</td>
<td>3</td>
</tr>
<tr>
<td>MTT 110B</td>
<td>Machine Shop II</td>
<td>3</td>
</tr>
<tr>
<td>MTT 230B</td>
<td>Computer Numerical Control I</td>
<td>4</td>
</tr>
<tr>
<td>MTT 232B</td>
<td>Computer Numerical Control II</td>
<td></td>
</tr>
<tr>
<td>MTT 250B</td>
<td>Machine Shop III</td>
<td>3</td>
</tr>
<tr>
<td>MTT 260B</td>
<td>Machine Shop IV</td>
<td>3</td>
</tr>
<tr>
<td>MTT 261B</td>
<td>Machine Shop II</td>
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</tr>
<tr>
<td>MATH 110B</td>
<td>Mathematics Course *</td>
<td>3</td>
</tr>
</tbody>
</table>

* MATH 110B Recommended

Choose 13 credits from the following:

- MTT 106B Machine Shop Practice I 2
- MTT 111B Machine Shop Practice II 2
- MTT 251B Machine Shop Practice III 2
- MTT 261B Machine Projects 1–6
- MTT 262B Machine Shop Practice IV 2
- MTT 292B Computer-Aided Manufacturing I 4
- MTT 293B Computer-Aided Manufacturing II 4
- MTT 295B Work Experience 1–6

Related Machine Shop Course 1–6

General Education Requirements

- English/Communications Requirement: Must include a writing course 6
- Human Relations Requirement 3
- Humanities/Social Science Requirements 3
- Science Requirement 6
- U.S. and Nevada Constitution Requirements 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

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Completed</th>
<th>Third Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT 110B</td>
<td></td>
<td>3</td>
<td>Humanities/Social Science</td>
<td></td>
</tr>
<tr>
<td>English Course</td>
<td></td>
<td>3</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Course</td>
<td>3</td>
<td>MTT 230B</td>
<td>4</td>
<td></td>
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<tr>
<td>Math Course</td>
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<td>MTT 250B</td>
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<tr>
<td>MTT 105B</td>
<td>3</td>
<td>MTT 251B</td>
<td>2</td>
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<td>MTT 106B</td>
<td>2</td>
<td>Science Course</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Second Semester</th>
<th>Completed</th>
<th>Fourth Semester</th>
<th>Completed</th>
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</thead>
<tbody>
<tr>
<td>English Course</td>
<td>3</td>
<td></td>
<td>MTT 232B</td>
<td>4</td>
</tr>
<tr>
<td>MTT 110B</td>
<td>3</td>
<td></td>
<td>MTT 260B</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111B</td>
<td>2</td>
<td></td>
<td>MTT 262B</td>
<td>2</td>
</tr>
<tr>
<td>MTT 261B</td>
<td>2</td>
<td></td>
<td>Program Elective</td>
<td>3</td>
</tr>
<tr>
<td>Science Course</td>
<td>3</td>
<td></td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
</tr>
</tbody>
</table>

ASSOCIATE OF APPLIED SCIENCE - MACHINE TOOL TECHNOLOGY
Mission & Outcomes

Mission: The mission of the Associate of Applied Science degree in Machine Tool Technology is to provide the student with the skills and knowledge to succeed in the machining industry.

Student Learning Outcomes: Students who complete an Associate of Applied Science in Machine Tool Technology are expected to:

- know the subject matter appropriate to the Associate of Applied Science in Machine Tool Technology,
- use skills and perform tasks essential for employment
- have the self-confidence needed for seeking employment
- use available resources to remain current in the machine industry

CERTIFICATE OF ACHIEVEMENT - MACHINE TOOL TECHNOLOGY
Mission & Outcomes

Mission: The mission of the Certificate of Achievement degree in Machine Tool Technology is to provide the student with the skills and knowledge to succeed in the machining industry.

Student Learning Outcomes: Students who complete an Certificate of Achievement in Machine Tool Technology are expected to:

- use skills and perform tasks essential for employment
- have the self-confidence needed for seeking employment

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

The Management emphasis is designed to provide a foundation for employment in a variety of business/managerial positions.

Salary: $57,840–$109,140 / year (Nevada)
Career Outlook: Faster than average through 2014; managers will be more likely to keep their jobs
Good To Know: Average growth; managers will be more likely to keep their jobs
WNC Academic Division: Social Science, Education, Humanities & Public Service

Total Requirements: 60 credits

Business Core Requirements 27 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 201</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 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>or MGT 103</td>
<td>Introduction to Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 273</td>
<td>Business Law I</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>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>
</tbody>
</table>

Emphasis Requirements 18 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 212</td>
<td>Leadership &amp; Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>MGT 283</td>
<td>Introduction to Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 9 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 261</td>
<td>Principles of Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 262</td>
<td>Principles of Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGT 103</td>
<td>Introduction to Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 235</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGT 2478</td>
<td>Industrial Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 111</td>
<td>Introduction to Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>MKT 127</td>
<td>Introduction to Retailing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 262</td>
<td>Introduction to Advertising</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements 15 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement</td>
<td>Recommended: BUS 107 &amp; BUS 108; Must include a writing course</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>BUS 109B or higher level mathematics course</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>3</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

Note: See also Retail Management.

MANAGEMENT - Mission & Outcomes

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

Student Learning Outcomes: Upon completing the AAS Management degree, students will be able to:
- Provide employment related knowledge and skills
- Know subject matter
- Understand accounting principles and their importance to the business environment
- Demonstrate managerial and personal skills
- Demonstrate oral, written, computational and computer skills
- Utilize appropriate resources to remain current in their field
- Appreciate the importance of social, ethical, legal and diversity issues
MATHEMATICS
Associate of Science

The Mathematics emphasis has been designed to place students on a career track toward mathematics, either as a university major or as preparation for a teaching career. An associate degree in mathematics offers a student flexibility in future academic endeavors and career opportunities.

Salary: $71,430–$119,480/year (Nevada)
Career Outlook: Average growth
Good To Know: Often requires graduate degrees for career advancement; Math may be used in a variety of fields, including education, economics, science, and research

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 credits
Emphasis Requirements 30 Credits
MATH 181 Calculus I 4
MATH 182 Calculus II 4
MATH 283 Calculus III 4
MATH 285 Differential Equations 3

Choose 12 credits from at least two subject areas in the courses listed under Science Requirements for the Associate of Science degree. Must include a minimum of four credits of lecture and laboratory from the same subject area.

Choose 3 credits from the following: Math courses numbered 120 or higher, except MATH 122 & 123. STAT 152 is also accepted.

General Education Requirements 30 Credits
English/Communications Requirements: Recommended: ENG 101, ENG 102 6
Fine Arts Requirements 3
Humanities Requirements 6
Social Sciences Requirements 6
U.S. and Nevada Constitution Requirements 3
General Electives 6

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

MATHEMATICS - Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester Completed</th>
<th>Third Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Courses 9</td>
<td>General Education Courses 6</td>
</tr>
<tr>
<td>MATH 181</td>
<td>MATH 283</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH Elective</td>
<td>Science Elective</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester Completed</th>
<th>Fourth Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Courses 9</td>
<td>Fourth Semester Completed</td>
</tr>
<tr>
<td>MATH 182</td>
<td>General Elective</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>MATH 285</td>
<td>Math elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>Science Elective</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

ASSOCIATE OF SCIENCE - MATHEMATICS
Mission & Outcomes

Mission: The purpose of the Associate of Science degree, emphasis Mathematics, is to provide the academic knowledge and skills for successful transfer to meet higher educational goals.

Student Learning Outcomes: Students who complete an Associate of Science degree, Mathematics emphasis, at WNC are expected to demonstrate that they:
- have met the general education student learning outcomes
- understand the content of calculus and differential equations
- are able to apply the content of calculus and differential equations at the appropriate level in mathematics, science, and engineering courses
- can succeed at their transfer institutions
MUSICAL THEATRE
Associate of Arts

The Associate of Arts degree in Musical Theatre is designed to provide training in the breadth of skills required for musical theatre performance, as well as satisfy many of the lower division requirements for the Bachelor of Arts degree in musical theatre at most four-year institutions.

Salary: $43,700–$108,900/year (Nevada)

Career Outlook: Average growth

Good To Know: Competition for performance jobs will be strong; many actors have other part-time employment or teach acting classes. Theater technicians are in high demand.

WNC Academic Division: Communication and Fine Arts

Total Requirements: 64 credits

Program Requirements 31 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 121</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>or MUS 124</td>
<td>History of The American Musical Theatre</td>
<td></td>
</tr>
<tr>
<td>or THTR 100</td>
<td>Introduction to Theater</td>
<td></td>
</tr>
<tr>
<td>MUSA 145</td>
<td>Voice-Lower Division</td>
<td>4</td>
</tr>
<tr>
<td>THTR 105</td>
<td>Introduction to Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 199</td>
<td>Play Structure &amp; Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 204</td>
<td>Theatre Technology I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 205</td>
<td>Introduction to Acting II</td>
<td>3</td>
</tr>
</tbody>
</table>

Four semesters participation in college productions for a total of 8 credits

|MUS 176 | Musical Theatre Practicum | 2–3 |
|MUS 276 | Musical Theatre Practicum | 1–3 |

Piano Proficiency

Select 4 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 132</td>
<td>Jazz Dance (beginning)</td>
</tr>
<tr>
<td>DAN 135</td>
<td>Beginning Ballet</td>
</tr>
<tr>
<td>DAN 144</td>
<td>Beginning Tap Dancing</td>
</tr>
<tr>
<td>DAN 232</td>
<td>Jazz Dance (intermediate)</td>
</tr>
<tr>
<td>DAN 244</td>
<td>Tap Dance (intermediate)</td>
</tr>
<tr>
<td>THTR 116</td>
<td>Musical Theatre Dance</td>
</tr>
</tbody>
</table>

General Education Requirements 33 Credits

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>English/Communications Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Humanities Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences Requirement</td>
<td>9</td>
</tr>
<tr>
<td>U.S. and Nevada Constitution Requirements</td>
<td>3</td>
</tr>
</tbody>
</table>

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

ASSOCIATE OF ARTS - MUSICAL THEATRE

Mission & Outcomes

Mission: The Associate of Arts in Musical Theatre is designed to provide training in the breadth of skills required for musical theatre performance as well as satisfy many of the lower division requirements for the Bachelor of Arts degree in musical theatre at most four-year institutions.

Student Learning Outcomes: Students who complete the Associate of Arts Degree in Musical Theatre are expected to have:

- An awareness of the complexities of the human experience, leading to the convincing performance of dimensional characters
- A knowledge of how to use various production elements and dramatic characterization to bring a theatrical concept to life
- A knowledge of plays that are representative of the development of musical theatre

They are expected to be able to:

- Analyze and interpret musical theater productions
- Convincingly live in imaginary circumstances, conveying to the audience a sense of emotional truth
- Engage in focused, concentrated, and active listening, and give and take from fellow performers
- Understand subtext and discover the contrasts within a character
- Function safely and effectively using contemporary theatre technology
- Dance in a variety of genres used in musical theatre
- Read music and to use proper vocal technique to sing musical theater repertoire from multiple eras

They should demonstrate:

- A creative imagination
- A work ethic
- A collaborative attitude
- Artistic standards and judgement
- A respect for the art form

MUSICAL THEATRE - Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Completed</th>
<th>Fourth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
<td>Dance Elective</td>
<td>1</td>
</tr>
<tr>
<td>Dance Elective</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Courses</td>
<td>9</td>
<td>General Education Courses</td>
<td>6</td>
</tr>
<tr>
<td>MUS 176 or MUS 276</td>
<td>2–3</td>
<td>MUS 121 or THTR 100</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145</td>
<td>1</td>
<td>MUS 176 or MUS 276</td>
<td>2–3</td>
</tr>
<tr>
<td>Piano Proficiency</td>
<td>0</td>
<td>MUSA 145</td>
<td>1</td>
</tr>
<tr>
<td>THTR 105</td>
<td>3</td>
<td>THTR 204</td>
<td>3</td>
</tr>
<tr>
<td>Second Semester</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance Elective</td>
<td>1</td>
<td>Dance Elective</td>
<td>1</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>9</td>
<td>General Education Courses</td>
<td>9</td>
</tr>
<tr>
<td>MUS 176 or MUS 276</td>
<td>2–3</td>
<td>MUS 176 or MUS 276</td>
<td>2–3</td>
</tr>
<tr>
<td>MUSA 145</td>
<td>1</td>
<td>MUSA 145</td>
<td>1</td>
</tr>
<tr>
<td>THTR 205</td>
<td>3</td>
<td>THTR 199</td>
<td>3</td>
</tr>
</tbody>
</table>
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, 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 and is accredited by the National League for Nursing Accrediting Commission, 3343 Peachtree Road NE, Suite 500, 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 Nevada State Board of Nursing at 1-775-687-7700 should there be a concern regarding eligibility for licensure. Applicants may also use the NSBN link found on the Nursing & Allied Health web page for information regarding how the board processes applications. The board will deny application for licensure. A limited number of qualified students are admitted as first semester students utilizing the selection criteria outlined below. The nursing program requires that pre-and co-requisite courses be completed with a grade of "C" or better (a C- or lower will not be accepted). Applicants not admitted as first semester students utilizing the selection criteria outlined below. The nursing program requires that pre-and co-requisite courses be completed with a grade of "C" or better (a C- or lower will not be accepted). Students admitted to the program are required to attend mandatory orientation sessions scheduled for late spring or early summer and prior to the start of classes.

**NURSING**

**Associate of Applied Science**

**Salary:** $56,000–$75,000 / year (Nevada)

**Career Outlook:** High growth, especially in home health care & nursing homes

**Good To Know:** Hospital nurses tend to earn more than nurses in doctors’ offices; may include working days, nights, weekends or holidays

**WNC Academic Division:** Nursing and Allied Health

<table>
<thead>
<tr>
<th>Total Requirements: 71 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite Courses*</td>
</tr>
<tr>
<td>BIOL 223* Human Anatomy and Physiology I</td>
</tr>
<tr>
<td>BIOL 224* Human Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIOL 251 General Microbiology</td>
</tr>
<tr>
<td>ENG 101 Composition I</td>
</tr>
<tr>
<td>MATH 120 Fundamentals of College Mathematics</td>
</tr>
<tr>
<td>or MATH 126 Precalculus I</td>
</tr>
<tr>
<td>or higher MATH course</td>
</tr>
<tr>
<td>PSY 101 General Psychology</td>
</tr>
<tr>
<td>or SOC 101 Principles of Sociology</td>
</tr>
</tbody>
</table>

Chemistry: Show evidence of completion of high school chemistry from a regionally accredited school within the last three years or completion of CHEM 121 (4 credits) or CHEM 110 (4 credits) within ten years of program application. *BIOL 223 & BIOL 224 must be completed at the same college or university at an institution other than within Nevada System of Higher Education. Statue of Limitation for science courses is 10 years by the date of application to the nursing program.

**First Year: Fall Semester Courses**

<table>
<thead>
<tr>
<th>First Year: Fall Semester Courses</th>
<th>13 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102* Composition II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 136 Foundations of Nursing Theory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 137 Foundations of Nursing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 138 Foundations of Nursing Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 147 Health Assessment Theory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 148 Health Assessment Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 152 Foundations of Pharmacology in Nursing I</td>
<td></td>
</tr>
</tbody>
</table>

* Indicates corequisite. Corequisite courses must be completed by the end of the fourth semester of the nursing program.

**First Year: Spring Semester Courses**

<table>
<thead>
<tr>
<th>First Year: Spring Semester Courses</th>
<th>14 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 149 Mental Health and Illness Theory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 150 Mental Health and Illness Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 151 Mental Health and Illness Clinical</td>
<td>1</td>
</tr>
<tr>
<td>NURS 153 Foundations of Pharmacology in Nursing II</td>
<td>1</td>
</tr>
<tr>
<td>NURS 165 Medical Surgical Nursing I Theory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 166 Medical Surgical Nursing I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 167 Medical Surgical Nursing I Clinical</td>
<td>2</td>
</tr>
<tr>
<td>PSY 101* General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 101* Principles of Sociology</td>
<td></td>
</tr>
</tbody>
</table>

* Indicates corequisite. Corequisite courses must be completed by the end of the fourth semester of the nursing program.

**Second Year: Fall Semester Courses**

<table>
<thead>
<tr>
<th>Second Year: Fall Semester Courses**</th>
<th>12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 263 Nursing Care Childbearing Family Theory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 264 Nursing Care of the Childbearing Family Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 265 Nursing Care of the Childbearing Family Clinical</td>
<td>1</td>
</tr>
<tr>
<td>NURS 270 Advanced Clinical Nursing I Theory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 271 Advanced Clinical Nursing I Clinical</td>
<td>2</td>
</tr>
<tr>
<td>U.S./Nevada Constitutions Course (PSC 103, HIST 111, or CH 203 recommended)*</td>
<td>3</td>
</tr>
</tbody>
</table>

* See the Associate of Applied Science page for more information on courses fulfilling the general education requirement

<table>
<thead>
<tr>
<th>Second Year: Spring Semester**</th>
<th>11 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 266 Pediatric Nursing Theory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 267 Pediatric Nursing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 268 Pediatric Nursing Clinical</td>
<td>1</td>
</tr>
<tr>
<td>NURS 276 Advanced Medical Surgical Nursing II Theory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 277 Advanced Medical Surgical Nursing II Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 284 Role of the ADN Manager of Care</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: ** The sequence of some courses for the second year fall and spring semester may be altered. Completion of Biology 223, 224 and 231 fulfills the science general education requirement for the Associate of Applied Science in Nursing.

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www.wnc.edu
Mission: The mission of the nursing program at Western Nevada College is to meet the nursing educational needs of the service area. The program prepares qualified students to function as entry-level registered nurses and transfer to higher degree programs. To accomplish this mission, the curriculum incorporates the National League for Nursing core components of nursing practice that are essential to the work of registered nurses. Graduates are prepared to function in a variety of health care settings, providing culturally sensitive, holistic nursing care to individuals and families across the lifespan. The nursing faculty supports graduate competency in an evolving and complex health care environment by facilitating the students' development of clinical judgment, promoting professional behaviors, and fostering lifelong learning.

Student Learning Outcomes: Students who complete an Associate of Applied Science degree with a major in nursing will be expected to demonstrate the ability to:

- Integrate knowledge derived from the bio/psycho/social sciences, humanities, and nursing to achieve deliberative and competent decision-making that is grounded in evidence based practice to achieve best practice outcomes
- Utilize therapeutic communication skills when interacting with patients and their families
- Communicate and document accurate information about patients in a concise and clear manner
- Collaborate with patients, families and health care personnel to achieve positive patient outcomes
- Utilize information literacy skills to integrate research findings that guide (or lead to) best practice decisions
- Utilize the nursing process in a competent and caring manner to safely meet the bio/psycho/social-cultural and spiritual needs of patients across the lifespan in a variety of health care settings
- Provide care that reflects the ethical values of nursing within professional practice standards and the legal parameters of the profession
- Apply concepts of cultural awareness, cultural sensitivity and respect for persons when working with diverse populations
- Provide and manage care through the efficient and effective use of human, physical, financial, and technical resources to meet patient needs
- Demonstrate accountability (professionalism) through identification of self-learning needs and continued professional development
- Utilize principles of teaching and learning to meet the bio/psycho/social-cultural/spiritual needs of patients and their families

Mission & Outcomes

ASSOCIATE OF APPLIED SCIENCE - NURSING

NURSING ADMISSION/SELECTION CRITERIA

<table>
<thead>
<tr>
<th>Science GPA</th>
<th>2.0-2.49</th>
<th>2.5-2.99</th>
<th>3.0-3.49</th>
<th>3.5-4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BIOL &amp; CHEM prerequisite courses)</td>
<td>(2)</td>
<td>(4)</td>
<td>(6)</td>
<td>(8)</td>
</tr>
</tbody>
</table>

GPA

<table>
<thead>
<tr>
<th>(pre- and corequisite courses)</th>
<th>2.0-2.49</th>
<th>2.5-2.99</th>
<th>3.0-3.49</th>
<th>3.5-4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>(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.)</td>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
</tbody>
</table>

Test of Essential Academic Skills (TEAS)

<table>
<thead>
<tr>
<th>60-69</th>
<th>70-79</th>
<th>80-89</th>
<th>90-99</th>
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<tbody>
<tr>
<td>(1)</td>
<td>(2)</td>
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<td>(4)</td>
</tr>
</tbody>
</table>

(A minimum cut score of 60% is required for each subtest.)

Completion of corequisite credits

<table>
<thead>
<tr>
<th>3-6</th>
<th>7-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>(2)</td>
</tr>
</tbody>
</table>

Nevada Resident: An applicant who is classified as a Nevada resident or Good Neighbor 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: 19

Admission to the nursing program will be based on a combination of academic criteria and overall qualifications. Applicants will be 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.

Nursing Program Application Process

Apply for admission: 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 website on or after January 2. The last date for submission of an application to Admissions and Records is April 1.

Applicants who live in rural sites, including Fallon, Fernley, Yerington and Hawthorne are eligible to apply for admission to the rural program. It is anticipated that students will be admitted to the rural nursing program every other year. Other applicants who live in areas such as Carson City, Reno, Gardnerville, and Lake Tahoe or elsewhere are eligible to apply for admission to the Carson City campus.

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 into the nursing program while in the process of completing a prerequisite course(s), providing 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.

Test of Essential Academic Skills (TEAS): Students must take the TEAS and receive a minimum score of 60 percent or above for each of the four sub-scores to be considered for admission into the nursing program. The TEAS may be taken one time each semester. Consult the Nursing & Allied Health website and contact the department office for dates and times of testing. Students may take practice TEAS tests which are available on the ATI website, www.atitesting.com.

Residency: An applicant who is classified as a Nevada resident or Good Neighbor 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 TEAS results and all required college and university transcripts, as appropriate to Admissions and Records in the time frame delineated on the nursing program application.

www.wnc.edu
Other Important Information
- Nursing learning activities are scheduled on & off campus, days, evenings & weekends.
- Courses are Web-CT Enhanced, necessitating that students have basic computer skills.
- 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 Functions as discussed on the nursing web site.
- 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 (Health Care Provider).
    - Major medical health insurance (card required).
    - An acceptable background check.
A background check is required by health care organizations. Students accepted into WNC’s nursing program will be required to pass a background check in order to attend clinicals and remain in the program. Drug screening may be required by health care organizations. See the Nursing & Allied Health web page for the process and procedures to follow.

Students Requesting Transfer & Re-Admission
Readmission Policy for the Nursing Program
A student who matriculated into the Western Nevada College nursing program may be readmitted one time following a withdrawal/failure. A written request for an exemption to the policy for such reasons as medical and military will be considered by the Nursing Program Readmission Committee.

Students are eligible to be considered for readmission or transfer into the nursing program using a point system and on a space available basis.

Students seeking readmission or transfer into the nursing program will be required to demonstrate currency of knowledge and skills by passing competency evaluations for selected nursing theory and nursing laboratory courses previously successfully completed. Students may choose the option to repeat those courses, or will be required to repeat those courses if the competency examinations are not successfully passed. A score of 75% or more is required for each theory competency evaluation and a passing grade is required for selected skill competencies, including basic nursing assessment skills. Students should contact the nursing program administrative assistant to schedule competency evaluations. Students who withdraw from or who failed a course or courses that are related (e.g. NURS 136, 137 and 138) will be required to repeat all courses in the sequence.

Nursing courses taken more than three years prior to reapplication or prior to transfer application will not be accepted and will need to be repeated.

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

The Nursing Program Readmission Committee will review applications of students who are seeking readmission into the program. The committee acknowledges the responsibility to readmit students, who in the judgment of the committee, satisfy the requirements of scholarship and professional suitability for nursing. The committee reserves the right to deny readmission based on a history of unprofessional conduct which violates the ANA Code of Ethics.

CERTIFIED NURSING ASSISTANT
A certified nursing assistant class is offered through the Division of Nursing and Allied Health. The college offers NURS 130 - Nursing Assistant, a six-credit 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 institutions. 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
Emergency Medical Services courses are offered through the Division of Nursing and Allied Health. They include: EMS 100B - CPR, First Responder, EMS 108B - EMT Basic and EMT Refresher, EMS 112B - EMT enhanced (Intermediate), and EMT Instructor. 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 EMT Enhanced (Intermediate).

EMS 108B and EMS 112B are designed to meet the National Standard Curriculum published by the United States Department of Transportation, National Highway Traffic Safety Administration.

A background check is required by health care organizations. Students accepted into WNC’s nursing program and emergency medical services courses will be required to pass a background check in order to attend clinicals and remain in the program. Drug screening may be required by health care organizations. See the Nursing & Allied Health web site for the process and procedures to follow.

Immunization Requirements:

- CPR certification (card required)
- Documentation and currency of the following is required after acceptance into the nursing program:
  - Basic and the appropriate Nevada EMS certification examination for EMT Enhanced (Intermediate).
  - Major medical health insurance (card required).
  - An acceptable background check.
  - An acceptable physical examination, and required immunizations and tests.

WNC Academic Division: Nursing and Allied Health

LABORATORY TECHNICIAN-PHLEBOTOMY
A phlebotomy class is offered through the Division of Nursing and Allied Health. LTE 110 - Techniques of Venipuncture, is listed in the class schedule under the Laboratory Technician heading. The course provides students the 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.
PHYSICS

Associate of Science

The Physics emphasis is designed for students wishing to pursue studies in the field of physics, either as a university major or as preparation for a teaching career.

Salary: $57,200–$102,900 / year (Nevada)
Career Outlook: Slower than average growth
Good To Know: Graduate degrees required for career advancement and higher salaries
WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 – 62 credits
Emphasis Requirements 36–38 Credits

CHEM 121 General Chemistry I 4
CHEM 122 General Chemistry II 4
MATH 181 Calculus I 4
MATH 182 Calculus II 4
MATH 283 Calculus III 4
MATH 285 Differential Equations 3
PHYS 180 Engineering Physics I 3
PHYS 180L Engineering Physics I Lab 1
PHYS 181 Engineering Physics II 3
PHYS 181L Engineering Physics II Lab 1
PHYS 182 Engineering Physics III 3
PHYS 182L Engineering Physics III Lab 1
PHYS 293 Directed Study 1–3

General Education Requirements 24 Credits
English/Communications Requirements: Recommended: ENG 101, ENG 102 6
Fine Arts Requirements 3
Humanities Requirements: Recommended: CH 201, CH 202 6
Social Sciences Requirements 6
U.S. and Nevada Constitution Requirements 3

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

Note: EPY 150 is strongly recommended but not required for graduation. CHEM 201 and 202 are acceptable in lieu of CHEM 121 and 122.

ASSOCIATE OF SCIENCE - PHYSICS

Mission & Outcomes

Mission: The purpose of the Associate of Science with an Emphasis in Physics is to provide the academic knowledge and skills for successful transfer to meet higher educational goals.

Student Learning Outcomes: Students who complete an Associate of Science degree at WNC are expected to demonstrate that they:
• have met the general education student learning outcomes.
• know conceptual and analytical fundamentals of classical and modern physics as well as electricity and magnetism.
• can succeed in their transfer institutions.
REAL ESTATE
Associate of Applied Science in Business
The Real Estate emphasis has been designed to prepare students for careers in the real estate sales industry. Career opportunities also exist in commercial banking, escrow services, land planning and zoning, and land development. Approved continuing education credits completed through the Nevada Real Estate Division may be applied toward this degree as real estate electives.

Salary: $29,210–$86,420 / year (Nevada agents)
Career Outlook: Average growth
Good To Know: About 60 percent of real estate agents are self-employed
WNC Academic Division: Business and Computer Technology

Total Requirements: 60 credits
Subject Requirements 24 Credits
ACC 135B Bookkeeping I 3
& ACC 201 Financial Accounting 3
or ACC 201 Financial Accounting
& ACC 202 Managerial Accounting
BUS 101 Introduction to Business 3
or MGT 103 Introduction to Small Business Management
BUS 110B Human Relations For Employment 3
or MGT 201 Principles of Management
or MGT 212 Leadership & Human Relations
or MGT 283 Introduction to Human Resources Management
BUS 273 Business Law I 3
ECON 102 Principles of Microeconomics 3
IS 101 Introduction to Information Systems 3
IS 201 Computer Applications 3

Emphasis Requirements 18 Credits
RE 101 Real Estate Principles I 3
RE 103 Real Estate Principles II 3
RE 104 Real Estate Law & Conveyancing 3
RE 199 Real Estate Investments 3
RE 206 Real Estate Appraising 3
Elective: Any Real Estate Course 3

General Education Requirements 18 Credits
English/Communications Requirement: Recommended. BUS 107 & 108; Must include a writing course 6
Mathematics Requirement: RE 102B, BUS 109B or higher level mathematics course 3
Science Requirement 3
U.S. and Nevada Constitution Requirements 3
General Electives 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.
Note: Real Property Managers need 24 hours of approved continuing education in addition to licensing and state exam.

REAL ESTATE - Mission & Outcomes
Mission: The purpose of the AAS Real Estate degree is to provide the knowledge and skills necessary to succeed in the Real Estate field.

Student Learning Outcomes: Upon completing the AAS Real Estate program, students will be able to: 1. Provide employment related knowledge and skills. 2. Know subject matter. 3. Understand accounting principles and their importance to the business environment. 4. Demonstrate managerial and personal skills. 5. Demonstrate oral, written, computational and computer skills. 6. Utilize appropriate resources to remain current in their field. 7. Appreciate the importance of social, ethical, legal and diversity issues

REAL ESTATE LICENSING PROGRAM
These licensing programs fulfill the minimum course requirements needed to be eligible to take the Nevada Real Estate Sales and/or Broker examination and the Residential Appraisers License examination. For additional information, please contact the State of Nevada Real Estate Commission.

WNC Academic Division: Business and Computer Technology

REAL ESTATE
Sales License State of Nevada

Total Requirements: 6 credits
Requirements 6 Credits
RE 101 Real Estate Principles I 3
RE 103 Real Estate Principles II 3

REAL ESTATE
Broker License State of Nevada

Total Requirements: 64 credits
Requirements 64 Credits
RE 101 Real Estate Principles I 3
RE 103 Real Estate Principles II 3
RE 201 Real Estate Brokerage 3
RE 206 Real Estate Appraising 3
General Electives 37
Real Estate, Business or Economics Electives 15

REAL ESTATE - RESIDENTIAL
Appraiser Apprentice License State of Nevada

Total Requirements: 7 credits
Requirements 7 Credits
RE 101 Real Estate Principles I 3
or RE 103 Real Estate Principles II 3
RE 198B Special Topics 1
RE 206 Real Estate Appraising 3
RETAIL MANAGEMENT
Certificate of Achievement
Western Nevada College offers a 30-credit Certificate of Achievement in Retail Management to prepare students for a career in the retail business.

A retail management career incorporates buying, merchandising, promotion, management, operations, finance and computer applications.

Required classes for the Retail Management Certificate of Achievement are in business and business communications, accounting, information systems, management and marketing, and many serve as a ladder to business degrees. The WNC program provides students an opportunity to earn a relevant certificate, and the classes are also required for associate degrees. Most are also transferable to four-year colleges. The certificate may particularly benefit employees interested in moving up to supervisory and management positions.

Salary: $41,740–$98,330 / year (Nevada)
Career Outlook: Slower than average growth; strongly determined by the economy
Good To Know: Career incorporates buying, merchandising, promotion, management, operations, finance & computer applications

WNC Academic Division: Business and Computer Technology

Total Requirements: 30 credits
Core Requirements

21 Credits

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ACC 135B</td>
<td>Bookkeeping I</td>
<td>3</td>
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<tr>
<td>or ACC 201</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110B</td>
<td>Human Relations For Employment</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 112B</td>
<td>Customer Service</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>or MGT 235</td>
<td>Organizational Behavior</td>
<td></td>
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<tr>
<td>or MGT 263</td>
<td>Introduction to Human Resources Management</td>
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<tr>
<td>MGT 212</td>
<td>Leadership &amp; Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>MKT 127</td>
<td>Introduction to Retailing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 210</td>
<td>Marketing Principles</td>
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</table>

General Education Requirements

9 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications: Recommended: BUS 107, BUS 108; Must include a writing course</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirement: Recommended: BUS 109B</td>
<td>3</td>
</tr>
</tbody>
</table>

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

The Welding Technology program is a preparation program which offers students competencies to prepare for code exams. This allows students with varying degrees of competencies to enter the program and progress at their own pace. Students are encouraged to obtain as many lab hours as possible to ensure their skill development.

Salary: $30,180–$47,250/year (Nevada)
Career Outlook: Slightly slower than average growth
Good To Know: Certification required for many jobs

WNC Academic Division: Technology

Total Requirements: 63 credits
Program Requirements 39 Credits
DFT 100 Basic Drafting Principles 3
WELD 211 Welding I 3
WELD 212B Welding I Practice 2
WELD 221 Welding II 3
WELD 222B Welding II Practice 2
WELD 231B Welding III 3
WELD 232B Welding III Practice 2
WELD 241B Welding IV 3
WELD 242B Welding IV Practice 2
WELD 250B Welding Certification Preparation 1–12

Program Electives
Choose 4–11 credits from the following:
ET 131B DC for Electronics 4
MTT 105B Machine Shop I 3
or WELD 151B Metallurgy I
WELD 224B Welding Projects 1–6
WELD 290B Internship in Welding 1–4
WELD: Related Welding Courses 1–3

General Education Requirements 24 Credits
English/Communications Requirement: Recommended: BUS 107&108; Must include a writing course 6
Human Relations Requirement Recommended: BUS 110B 3
Humanities/Social Science Requirements 3
Mathematics Requirement 3
Science Requirement 6
U.S. and Nevada Constitution Requirements 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.

WELDING TECHNOLOGY - Suggested Course Sequence

First Semester Completed
BUS 107 3
WELD 211 Welding I 3
WELD 212B Welding I Practice 2
WELD 221 Welding II 3
WELD 222B Welding II Practice 2
WELD 250B Welding Certification Preparation 6

Second Semester Completed
BUS 110B 3
Humanities/Social Science Course 3
WELD 211 Welding I 3
WELD 221 Welding II 3
WELD 222B Welding II Practice 2
WELD 241B Welding IV 3
WELD 242B Welding IV Practice 2
WELD 250B Welding Certification Preparation 6

Third Semester Completed
DFT 100 3
Science Course 3
WELD 231B Welding III 3
WELD 232B Welding III Practice 2
WELD 241B Welding IV 3
WELD 242B Welding IV Practice 2
WELD 250B Welding Certification Preparation 6

Fourth Semester Completed
BUS 110B 3
U.S./Nevada Constitutions 3
WELD 211 Welding I 3
WELD 221 Welding II 3
WELD 222B Welding II Practice 2
WELD 241B Welding IV 3
WELD 242B Welding IV Practice 2
WELD 250B Welding Certification Preparation 6

ASSOCIATE OF APPLIED SCIENCE - WELDING TECHNOLOGY
Mission & Outcomes

Mission: The mission of the Associate of Applied Science degree in Welding Technology is to provide employment-related knowledge and skills necessary to succeed in the welding field.

Student Learning Outcomes: Students who complete an Associate of Applied Science in Welding Technology will be able to demonstrate:
• knowledge of the subject matter appropriate to the welding technology.
• are able to do the following:
• acquire skills and perform tasks necessary for employment for a career enhancement in the welding field
• present themselves effectively to a potential employer
• effective communication and computation skills appropriate to the welding field
• utilize appropriate resources to remain current in the welding field

www.wnc.edu
Special Academic Courses of Study are diverse courses that may lead to an academic degree or certificate, enhance work skills, or provide personal enrichment. See a WNC counselor for more information.

CONTINUING EDUCATION PROGRAMS
The college offers a number of programs and services through Continuing Education to help WNC students, graduates and employers. Services include:

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 Senior College, offering learning experiences for senior citizens.

Carson .............................................................................................. 775-445-4268
Fallon & Rural Centers ................................................................. 775-423-5847
Douglas ........................................................................................... 775-782-2413

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

Information ................................................................................. 775-445-4458
www.wnc.edu/drivertraining/

TRUCK DRIVER SCHOOL
WNC provides individuals the opportunity to obtain a Commercial Driver’s License through Trucking Driving School, offered in conjunction with Advanced Truck School LLC. Students meet for two weeks of classroom training, followed by two weeks of driving on a skills course and over the road.

Information ................................................................................. 775-423-5186 or 775-423-5186
www.wnc.edu/continuing_education/ats/

WORKFORCE DEVELOPMENT CENTER
The Workforce Development Centers of Western Nevada College provide educational opportunities and training solutions for business, industries and government or non-profit agencies within its vast service area. Assessment, instruction and evaluation are essential components of WNC’s programs. Topics include supervisory training, industrial safety and customer service. Education and training for credit or non-credit can be delivered on-site or at WNC campuses in Carson City, Fallon or Minden or at the instructional centers in Fernley, Hawthorne, Lovelock, Smith or Yerington.

Carson & Douglas ......................................................................... 775-445-4458
Fallon .............................................................................................. 775-423-5186
www.wnc.edu/wdc/

CORRECTIONAL EDUCATION
WNC offers classes leading to the completion of degrees and certificate programs to incarcerated students housed in Nevada State Prison facilities within its service area. Courses leading to the Associate of General Studies degree, the Associate of Arts degree, various occupational certificates and degrees are conducted at the Nevada State Prison, Warm Springs Correctional Center, Northern Nevada Correctional Center, Lovelock Correctional Center and Silver Springs Correctional Center.

Information ................................................................................. 775-445-4282

CERTIFICATION & LICENSING PREPARATION
Certification and licensing preparation programs are designed to prepare students to take state or other certified licensing exams. Topics can include real estate licensing, building inspecting, computer networking, and more. It is important to note that while these programs prepare students to obtain a certification, WNC does not grant any of these certifications.

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

PUBLIC SAFETY TELECOMMUNICATOR
(9-1-1 Dispatch Training)
WNC offers a 12-credit, semester-long course each spring to prepare individuals to enter the rewarding field of 9-1-1 dispatching. They must be 18 years old, possess a high school diploma or equivalent, and be able to type 40 WPM corrected. Forty hours of internship in a dispatch center is also required.

Information ................................................................................. 775-445-4408

TEACHER EDUCATION PREPARATION
WNC offers introductory courses in teacher education that can transfer to universities or colleges that offer a bachelor’s degree in education including the University of Nevada, Reno and/or Nevada State College. These courses offer students a chance to prepare for a career in education. Through a well-established partnership with local schools, field experiences are an integral and early part of all teacher preparation courses. These courses can also be used to gain a substitute license or by paraprofessionals needing to qualify under “No Child Left Behind” legislation.

Students can transfer to NSC and take classes at WNC campuses and online to earn a bachelor’s degree and certification in elementary education.

They may also transfer to UNR to pursue a bachelor’s degree and certification in:
- Elementary Education
- Special Education/Dual (SPED/Elem)
- Secondary Education (Middle/High School)

WESTERN NEVADA STATE PEACE OFFICER ACADEMY
WNC offers a 30-week, 30.5 credit course of study to prepare students for careers in law enforcement. The academy begins each January and meets all Nevada and POST certification requirements.

Early application is encouraged. Please note that there are 2 prerequisites. Potential students must successfully complete CRJ 103 with a grade of B or better and pass the pre-qualifying physical fitness standards at 80%.

Graduates will enhance their employability in attaining positions that require Category I and III peace officer certifications for police and sheriffs, investigators, parole and probation officers, bailiffs and jailers.

Information ................................................................................. 775-445-4408
www.wnc.edu/post/
COUNSELING & FINANCIAL ASSISTANCE

offer a variety of services as an integral part of each student’s educational experience.

Counselors are available weekdays and some evenings at the Carson City, Douglas, and Fallon campuses to help students and community members make important decisions regarding educational goals and career directions.

Counselors help students plan their academic schedules to ensure understanding of major/graduation requirements and current transfer guidelines. Counselors can also assist students with career exploration, interest testing, and job search techniques, and provide current information about labor markets and educational training requirements. Students are encouraged to see a counselor prior to enrollment to receive correct advising.

TRANSFER CENTER/CAREER CENTER

WNC’s Transfer Center assists students who plan to continue their education at another institution. The center provides a variety of services designed to make transfer from WNC to another college or university as easy and efficient as possible. The Transfer Center is in Counseling Services at the Carson City, Fallon, and Douglas campuses.

The Career Center provides information regarding career descriptions, job outlook, work settings and preparation necessary to enter specific career fields. These materials help students select college majors and future occupations.

TESTING

Every student planning to register for English or math courses at WNC must either take placement tests, submit ACT/SAT scores (no more than two years old), or provide a transcript showing completion of prerequisite courses. Testing assesses a student’s current skills in reading, writing and math, and helps students select the appropriate courses to take at WNC.

Students who are not sure if they need to test should contact a counselor.

Board of Regents mandated ACT and SAT required scores:

<table>
<thead>
<tr>
<th>Course</th>
<th>ACT</th>
<th>SAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>21</td>
<td>510</td>
</tr>
<tr>
<td>Math 120</td>
<td>21</td>
<td>510</td>
</tr>
<tr>
<td>Math 126</td>
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<td>Math 128</td>
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<tr>
<td>Math 176</td>
<td>25</td>
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</tr>
<tr>
<td>Math 181</td>
<td>28</td>
<td>630</td>
</tr>
</tbody>
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Testing is available by appointment at the Carson City, Douglas and Fallon campuses. There is a $15 testing fee. Photo identification is also required.

DISABILITY SUPPORT SERVICES (DSS)

WNC is committed to making its programs and services accessible to persons with disabilities. To receive academic accommodations through Disability Services, students must be currently enrolled in classes and provide appropriate documentation of their disability.

Support services for WNC students with disabilities are provided through Counseling Services on the Carson City campus. For effective and timely services, students should submit their requests for assistance at least four weeks in advance.

VETERANS SERVICES

The college maintains an office of Veterans Services on the Carson City campus. Information concerning veterans services is also available through Counseling Services on the Fallon campus and from the coordinator at any of WNC’s outlying centers.

Persons who are eligible for veterans benefits include: veterans discharged less than ten years ago, children of 100 percent service-connected disabled veterans, and the widows and children of veterans who died in service or from service-connected disabilities. Veterans and eligible persons are responsible for submitting all necessary paperwork to the Veterans Services Office. Early registration and submission of documents will assist the Veterans Services Office, and allow adequate time for processing applications. Academic counseling is required prior to certification each semester.

Veterans Standard of Satisfactory Progress

Veterans receiving VA educational benefits must maintain a cumulative grade point average of 2.0 on a 4.0 scale. If GPA falls below 2.0, he/she will be placed on academic probation for the following semester. If the cumulative GPA remains below 2.0 for two subsequent semesters, VA benefits will be terminated. To re-establish eligibility, students must take courses at their own expense until they achieve the required minimum 2.0 GPA.

HOW TO APPLY FOR FINANCIAL AID

The college’s Financial Assistance Office administers a broad array of financial aid programs including grants, scholarships, loans and part-time employment to assist students in meeting educational expenses. All students are eligible for some type of financial assistance. To be considered for financial aid complete the Free Application for Federal Student Aid each year. Students should complete the FAFSA online as soon as possible after January 1 for the next school year. Early submission of the FAFSA increases the possibility of receiving aid as some funds are limited. Allow at least 45 days before the semester begins to complete the application process.

The WNC scholarship application must be completed to be considered for scholarships. Deadlines are posted on the application. Application is available online at: www.wnc.edu/studentservices/financial/funding-scholarships.php

RECEIVING FINANCIAL AID & SCHOLARSHIPS

When financial aid and scholarships are approved and the student has enrolled in the correct number of credits, funds will automatically be applied to the student’s WNC account. This will occur no earlier than ten days prior to the start of semester. If financial aid is not approved in time for fee deadlines, the student is responsible for payment.

If funds awarded exceed the charges on a student’s account, the balance of funds is refunded to the student to pay for other educationally related expenses. Refunds are released to students beginning the week prior to the start of classes in one of the following ways:

- Check: The refund check is mailed to the address listed in Web-REG.
- Direct Deposit: Direct deposit is available if the student completes a Direct Deposit form and submits it to the Business Office along with a voided check. Allow 10-15 business days for the form to be processed.

WE’RE HERE TO HELP

www.wnc.edu/studentservices/financial/
Affirmative Action Policy

WNC is guided by the principle that there shall be no difference in the treatment of persons because of race, religion, color, age, sex, including a pregnancy-related condition, sexual-orientation, military status, or military obligations, disability, including veterans with service-connected disabilities, or national origin, and that equal opportunity and access to facilities shall be available to all. Similarly, there shall be no difference in the treatment of persons who file charges of discrimination, participate in a discrimination proceeding, or otherwise oppose discrimination. It is our policy to comply fully with the non-discrimination provision of all state and federal regulations with regard to recruitment, admission, financial aid, activities, hiring, promotions, training, terminations, benefits and compensation.