Principles of Community

As members of the WNC community, we choose to be part of an academic community dedicated to those principles that foster personal and professional integrity, civility, and tolerance.

We strive toward lives of personal integrity and academic excellence—We will encourage in ourselves, and in one another, those responsible actions which lead to lives of productive work, personal enrichment, and useful citizenship in an increasingly interdependent world.

We commit to treat one another with civility—Recognizing that there will be differences of opinion, we will explore the differences in a courteous and forthright manner, always acknowledging individual rights to the freedom of expression and association.

We support tolerance—We encourage those of all cultures, orientations, and backgrounds to understand and respect one another in a safe and supportive educational environment.
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/

The college now 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. They include:

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

OCCUPATIONAL PROGRAMS AND EMPHASES

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

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

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 EMPHASES

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, Associate of Science, or Associate of General Studies 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.

General Education Mission & Outcomes

**Mission:** 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.

**Student Learning Outcomes:** Students who complete a degree at WNC are expected to demonstrate they:

- have college-level skills in reading, writing, and oral communication appropriate to their degree and/or emphasis.
- can use appropriate college-level mathematical skills.
- have problem solving, creative, and critical thinking skills.
- have effective and efficient learning skills, including the location and evaluation of information.
- have appropriate technological skills, including computer skills.
- know the basic principles and processes of government at the local, state, national and international levels.
- understand the methods of science and the role of science and technology in the modern world.
- understand and apply social science principles, including an appreciation of participation in civic affairs.
- have an understanding of fine arts or performing arts.
- understand the importance of cultural traditions, diversity, and ethics in the modern world.

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

- have the appropriate communication, computational, and human relations skills.
### Academic Programs & Degrees

<table>
<thead>
<tr>
<th>Program</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>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting (Business Emphasis)</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting - Applied (Business Emphasis)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting Technician</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Sign Language</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automotive Mechanics</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological Sciences (Associate of Science Emphasis)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry (Associate of Science Emphasis)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Networking Technology</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science (Associate of Science Emphasis)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Technology - Cisco Systems</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Technology - Computer Programming</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Technology - Microcomputer/Network Technician</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Technology - Network Administration</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Technology - Construction Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Technology - Project Management</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Convergence Technology</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criminal Justice - (Associate of Arts &amp; Applied Science)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criminal Justice - Law Enforcement/Academy (Criminal Justice Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criminal Justice - 9-1-1 Dispatch Telecommunications</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customer Service</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deaf Studies (Associate of Arts Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drafting Technology - Architectural (Drafting Technology Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drafting Technology - Civil (Drafting Technology Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drafting Technology - Mechanical (Drafting Technology Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Science (Associate of Science Emphasis)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts (Associate of Arts Emphasis)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geographic Information Systems</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geosciences (Associate of Science Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graphic Communications</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Information Technology</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Information Technology - Medical Coding</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Information Technology - Medical Transcription</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Information Technology - Medical Unit Clerk</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine Tool Technology</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management (Business Emphasis)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics (Associate of Science Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musical Theatre (Associate of Arts Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Technology</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paralegal Studies</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics (Associate of Science Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real Estate (Business Emphasis)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retail Management</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surgical Technology</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Technology</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Welding Technology</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Students may take courses in many other academic areas for transfer; see transfer degree section of this catalog and/or a WNC counselor.
Transfer Degrees
Associate of Arts & Associate of Science

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.

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 in the following emphases 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.

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

- Accounting
- Agriculture
- Animal Science
- Anatomy
- Anthropology
- Architecture
- Art
- 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 Bachelor of Technology degree offers students advanced technical and managerial 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.

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

---

### BACHELOR OF TECHNOLOGY DEGREE REQUIREMENTS

**REQUIREMENTS:** A minimum of 128 credits

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

**ENGLISH/COMMUNICATIONS REQUIREMENTS** - 9–11 credits.
- Choose from:
  - Business: 107, or
  - Communication: 113 or 213 or 215
  - 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: 111, 121
  - 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, 201
  - 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).
- Choose from:
  - Anthropology: 101, 201, 202, 205, 210, 212
  - Core Humanities: 203
  - Criminal Justice: 101, 102, 220, 230, 270
  - Geography: 106
  - History: 101, 102, 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)

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

**CORE AND DEGREE REQUIREMENTS**
- Number of credits required vary by degree.
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 printed in BOLD/UNDERLINED 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 or CS 109C) and courses with a number under 100 (such as ENG 95) 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.

NOTE: Information on transfer to UNR is based on UNR requirements for the 2007-2008 school year. These requirements may change in subsequent years. See a WNC counselor for the most up-to-date information.

Programs and areas of study offered at WNC include:
• Criminal Justice
• Deaf Studies
• Fine Arts
• Musical Theatre

ASSOCIATE OF ARTS DEGREE REQUIREMENTS

REQUIREMENTS: A minimum of 60 credits

ENGLISH/COMMUNICATIONS REQUIREMENTS—6–8 credits. WNC and UNR
English: 100 or 101, 102
Fine Arts Requirement—3 credits. WNC and UNR
Art: 100, 101*, 124, 160, 224, 260, 261
Dance: 101
Humanities: 101
Music: 111*, 121, 123, 124, 221
Theatre: 100, 105*, 180
*Course may not meet the fine arts requirement at all universities. Please see a counselor.

HUMANITIES REQUIREMENT—6 credits.
UNR transfer students: 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:
Core Humanities: 201, 202, 243, 252
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 requirements, 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
Biology: 100, 113, 190, 191, 223, 224, 251
Chemistry: 100, 110, 111, 121, 122, 201, 202, 220
Geology: 100, 101, 102, 103, 127, 132, 201
Physics: 100, 151, 152, 180, 181, 182

Group B
Anthropology: 102, 102 & 110L
Astronomy: 109, 110, 120
Environmental Studies: 100
Geography: 103, 104
Nutrition: 121, 223

SOCIAL SCIENCES REQUIREMENT—9 credits.
*UNR: Choose from the following list. Must include work in two or more subject areas. UNR: Choose from the bolded courses.
Anthropology: 101, 201, 202, 210, 212
Core Humanities: 203
Criminal Justice: 101, 102, 220, 230, 270
Economics: 100, 102, 103
Geography: 106
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 articulation agreement or 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 printed in BOLD/UNDERLINED 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 or CS 109C) 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 2005-2006 school year. These requirements may change in subsequent years. See a counselor for the most up-to-date information.

Programs and areas of study offered at WNC include:
• Biological Sciences
• Chemistry
• Computer Science
• Engineering Science
• Geosciences
• Mathematics
• Physics

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

**REQUIREMENTS**: A minimum of 60 credits

**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: 111*, 121

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:

- **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, 243, 252
- 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** - 6 credits.

WNC: Choose only for geosciences emphasis. Math requirement already fulfilled for other emphases.


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
  - Chemistry: 100, 121, 122, 201, 202
  - Geology: 100, 101, 103
  - Physics: 100, 151, 152, 180 & 180L, 181 & 181L, 182

Group B:

- Anthropology: 102, 102 & 110L
- Astronomy: 109, 110, 120
- Environmental Studies: 100
- Geography: 103, 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

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*
- History: 101 & 217*
- 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. 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.
### 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 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 95) 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 challenge certain course requirements and prerequisites. In some cases, required courses may be waived, allowing the student to proceed to coursework at the appropriate level. In other cases, challenge examinations may be arranged for which the student can receive academic credit and a “pass” grade for the course.

### Programs and areas of study offered at WNC include:
- Accounting
- Applied Accounting
- Automotive Mechanics
- Business, General Business Emphasis
- Computer Technology, Computer Networking Technology
- Construction Technology, Construction Project Management
- Convergence Technology
- 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
- Health Information Technology
- Machine Tool Technology
- Management
- Nursing
- Office Technology
- Paralegal Studies
- Real Estate
- Web Technology
- Welding Technology
ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS

REQUIREMENTS: A minimum of 60 credits

ENGLISH/COMMUNICATIONS REQUIREMENT - 6 credits.
Must include a writing course.
Business: 107, 108
Communication: 113, 215
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 - 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, 258, 261, 266, 267, 271, 275
History: 105, 106, 207, 247
Humanities: 101
Music: 111*, 121
Philosophy (except for PHIL 102, 114)
Theatre: 100, 105, 180
Social Sciences Area:
Anthropology: 101, 201, 202, 210
Core Humanities: 203
Criminal Justice: 101, 102, 120, 215, 220, 225, 226, 230, 270
Economics: 100, 102, 103
Geography: 106
History: 101, 102, 111, 217, 295
Journalism: 101
Political Science
Psychology (except for PSY 210)
Social Work: 220
Sociology (except for SOC 210)
* Course may not meet the fine arts requirement at all universities.
Please see a counselor.

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

SCIENCE REQUIREMENT - 6 credits.
Animal Science: 110B
Anthropology: 102, 212
Astronomy: 109, 110, 120
Biology (except for BIOL 208)
Chemistry (except for CHEM 241, 241L, 242, 242L)
Environmental Studies
Geography: 103, 104
Geology (except for GEOL 111B, 112B, 113B, 299B)
Natural Resources: 101
Nutrition: 121, 223
Ornamental Horticulture: 105B
Physics (except for PHYS 293)

U.S. AND 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.
ASSOCIATE OF GENERAL STUDIES DEGREE REQUIREMENTS

** REQUIREMENTS: **A minimum of 60 credits

** ENGLISH/COMMUNICATIONS REQUIREMENT - 6 credits.**
Must include a three-credit writing course.
Business: 107, 108
Communication: 113, 215
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)

** FINE ARTS AND HUMANITIES REQUIREMENTS - 3 credits.**
American Sign Language
Art (except for ART 107)
Core Humanities: 201, 202
Crafts
Dance: 101
Graphic Communications (except for GRC 107)
History: 105, 106, 207, 247
Humanities: 101
Music
Philosophy (except for PHIL 102, 114)
Theatre: 100, 105, 180
Foreign Language
* Course may not meet the fine arts requirement at all universities. Please see a counselor.

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

** SCIENCE REQUIREMENT - 3 credits.**
Animal Science: 110B
Anthropology: 102
Astronomy: 109, 110, 120

Biology (except for BIOL 208)
Chemistry (except for CHEM 241, 241L, 242, 242L)
Environmental Studies
Geography: 103, 104
Geology (except for GEOL 111B, 112B, 113B, 229B)
Natural Resources: 101
Nutrition: 121, 223
Ornamental Horticulture: 105B
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
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.

Programs and areas of study offered at WNC include:
- Accounting Technician
- American Sign Language
- Automotive Mechanics
- Business
- Computer Technology, CISCO Systems
- Computer Technology, Computer Programming
- Computer Technology, Microcomputer/Network Technician
- Computer Technology, Network Administration
- Criminal Justice, Law Enforcement/Academy
- Criminal Justice, 9-1-1 Dispatch Telecommunications
- Customer Service
- Drafting Technology - Architectural
- Drafting Technology - Mechanical
- Early Childhood Education
- Geographic Information Systems (GIS)
- Graphic Communications
- Health Information Technology, Medical Coding
- Health Information Technology, Medical Transcription
- Health Information Technology, Medical Unit Clerk
- Machine Tool Technology
- Retail Management
- Surgical Technology
- Welding Technology

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 95) 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 credits

**ENGLISH/COMMUNICATIONS REQUIREMENTS:** 3 credits.

Must include a writing course
- Business: 107, 108
- Communication: 113, 215
- 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
- Real Estate: 102B
- 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.

**Certificate of Achievement Mission and Outcomes**

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

**Student Learning Outcomes:** Students who complete a Certificate of Achievement are expected to demonstrate that they

1. know the subject matter appropriate to the emphasis of the certificate.
2. are able to do the following:
   a. acquire the skills necessary for employment or career enhancement.
   b. successfully represent themselves to a potential employer.
   c. demonstrate effective communication and computational skills appropriate to the certificate area.
   d. utilize appropriate resources for remaining current in the certificate area.
3. have developed an appreciation of the importance of social, ethical, legal and diversity issues.
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: $39,800–$61,400 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Four major accounting fields - public, management, government and internal auditing

WNC Academic Division: For more information about this program of study, please contact the Business Division.

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 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
COT 202 Introduction to Computer Applications 3
or IS 201 Computer Applications 3
ECON 102 Principles of Microeconomics 3
or IS 201 Principles of Macroeconomics 3
IS 101 Introduction to Information Systems 3

* ACC 135B and ACC 136B recommended prior to ACC 201

Emphasis Requirements* 12 Credits
ACC 203 Intermediate Accounting I 3
ACC 220 Microcomputer Accounting Systems 3
Choose 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 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 21 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 6
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 Degree Requirements page.

www.wnc.edu
ACCOUNTING TECHNICIAN
Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 30 credits
Subject Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 135B</td>
<td>Bookkeeping I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ACC 136B</td>
<td>Bookkeeping II</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 201</td>
<td>Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>&amp; ACC 202</td>
<td>Managerial Accounting</td>
<td></td>
</tr>
<tr>
<td>ACC 220</td>
<td>Microcomputer Accounting Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110B</td>
<td>Human Relations For Employment</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 201</td>
<td>Principles of Management</td>
<td></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>
<tr>
<td>COT 202</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>or IS 201</td>
<td>Computer Applications</td>
<td></td>
</tr>
<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 credits from the following:

- ACC 105 Taxation For Individuals
- ACC 180B Payroll & Employee Benefit Accounting
- ACC 198B Special Topics in Accounting
- ACC 203 Intermediate Accounting I
- ACC 223B Introduction to QuickBooks
- ACC 251 Introduction to Auditing
- ACC 261 Governmental Accounting
- ACC 299B Advanced Special Topics in Accounting

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 Degree Requirements page.

ACCOUNTING Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>ACC 135B or ACC 201</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 108 or ENG/Comm</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 109B or higher math</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 110B, MGT 201, MGT 212 or MGT 283</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IS 101 or IS 201</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>ACC 136B or ACC 202</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACC 220</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Accounting Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 107 or ENG/Comm</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COT 202</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 102</td>
<td>3</td>
</tr>
<tr>
<td>Third</td>
<td>ACC 201</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 108 or Eng/Comm</td>
<td>3</td>
</tr>
</tbody>
</table>
|          | B...
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 60-credit 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: $26,600–$47,300 / year (middle range - Nevada)
Career Outlook: Average growth through 2014
Good To Know: Mechanics can be certified in as many as eight service areas
WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 61 credits
Program Requirements 37 Credits
AUTO 101B Introduction to General Mechanics 3
AUTO 115B Auto Electricity & Electronics I 4
AUTO 117B Advanced Auto Electronics 4
AUTO 130B Engine Reconditioning 3
AUTO 145B Automotive Brakes 4
AUTO 155B Steering & Suspension 4
AUTO 160B Auto Air Conditioning 3
AUTO 225B Engine Performance I/Fuel & Ignition 4
AUTO 227B Engine Performance II/Emission Control 4
AUTO 235B Engine Performance III/Diagnostics 4

General Education Requirements 24 Credits
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 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 Degree Requirements page.

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 31 credits
Subject Requirements 19 Credits
AUTO 101B Introduction to General Mechanics 3
AUTO 111B Automotive Electricity 4
AUTO 145B Automotive Brakes 4
AUTO 155B Steering & Suspension 4
AUTO 225B Engine Performance I/Fuel & Ignition 4

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

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

AUTOMOTIVE MECHANICS Suggested Course Sequence

First Semester
AUTO 101B 3
AUTO 115B 4
AUTO 130B 3
BUS 107 3
Mathematics Course 3
Second Semester
AUTO 117B 4
AUTO 155B 4
AUTO 160B 3
BUS 108 3
Humanities/Social Science Course 3
Science Course 3
U.S./Nevada Constitution 3

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 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 place students wishing to pursue studies in the fields of, but not limited to, biology, environmental studies, pre-health care and biochemistry, either as a university major or as preparation for a teaching career.

Salary: $46,300–$68,600 / year (middle range - Nevada)

Career Outlook: Average growth through 2014

Good To Know: For advancement, some fields require graduate degrees

WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 63 credits

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>39 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 190</td>
<td>Introduction to Cell and Molecular Biology 3</td>
</tr>
<tr>
<td>BIOL 190L</td>
<td>Introduction to Cell and Molecular Biology Lab 1</td>
</tr>
<tr>
<td>BIOL 191</td>
<td>Introduction to Organismal Biology 3</td>
</tr>
<tr>
<td>BIOL 191L</td>
<td>Introduction to Organismal Biology Lab 1</td>
</tr>
<tr>
<td>CHEM 121</td>
<td>General Chemistry I 4</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>General Chemistry II 4</td>
</tr>
<tr>
<td>MATH 128*</td>
<td>Precalculus and Trigonometry 5</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus I 4</td>
</tr>
<tr>
<td>PHYS 151</td>
<td>General Physics I 4</td>
</tr>
<tr>
<td>PHYS 152</td>
<td>General Physics II 4</td>
</tr>
</tbody>
</table>

* Can substitute Math 126/127 for Math 128

Emphasis Electives
Choose 6 credits from the following list:

- BIOL 208 Human Genetics 3
- BIOL 223 Human Anatomy and Physiology I 4
- BIOL 224 Human Anatomy and Physiology II 4
- BIOL 251 General Microbiology 4
- MATH 182 Calculus II 4
- NUTR 223 Principles of Nutrition 3
- STAT 152 Introduction to Statistics 3

General Education Requirement 24 Credits

- English/Communications Requirements (Must include a writing course) 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: CAPS 122 is strongly recommended but not required for graduation. CHEM 201 & 202 are acceptable in lieu of CHEM 121 & 122. PHYS 180/180L and 181/181L 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. BIOL 192 is acceptable in lieu of BIOL 190L and 191L.
BUSINESS PROGRAM
The Business Division at WNC offers Associate of Applied Science degrees, certificates of achievement, and certification and licensing preparation. Disciplines include accounting, business, CISCO technology, computer applications, computer information technology, computer office technology, economics, finance, information systems, insurance, management, marketing, real estate and senior computing. The mission of the division is to prepare students for transfer to four-year colleges and/or to provide them with the knowledge they need for their careers.

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
• know the subject matter appropriate to the emphasis of the degree.
• have developed managerial and personal skills essential to the current business environment.

BUSINESS Certificate of Achievement
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 30 credits
Subject Requirements 18 Credits
BUS 101 Introduction to Business 3
BUS 110B Human Relations For Employment 3
Choose 12 credits from the following areas with no more than 3 credits in any one area: Accounting, Business, Computer and Office Technology, Economics, Finance, Information Systems, Insurance, Management, Marketing, or Real Estate.

General Education Requirements 12 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
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 Degree Requirements page.

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

Salary: Large range depending on size & type of organization. $30,500–$89,000 / year (middle range - Nevada)
Career Outlook: Average growth through 2014
Good To Know: Often includes hiring, training and supervising employees
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 60 credits
Business Core Requirements 24 Credits
ACC 135B Bookkeeping I 3
& ACC 136B Bookkeeping II 3
or ACC 201 Financial Accounting
& ACC 202 Managerial Accounting
BUS 101 Introduction to Business 3
or MGT 103 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
COT 202 Introduction to Computer Applications 3
or IS 201 Computer Applications
ECON 102 Principles of Microeconomics 3
or ECON 103 Principles of Macroeconomics
IS 101 Introduction to Information Systems 3

Emphasis Requirements 15 Credits
Choose from the following areas: Accounting, Business, Computer and Office Technology, Economics, Finance, Information Systems, Insurance, Management, Marketing or Real Estate.

General Education Requirements 21 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
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 Degree Requirements page.

BUSINESS Suggested Course Sequence
First Semester Completed
ACC 135B or ACC 201 3 □
BUS 101 or MGT 103 3 □
BUS 107 3 □
BUS 109B or math 3 □
Degree Elective 3 □

Second Semester Completed
ACC 136B or ACC 202 3 □
BUS 273 3 □
ECON 102 or ECON 103 3 □
IS 101 3 □
Science Elective 3 □

Third Semester Completed
BUS 108 3 □
COT 202 3 □
MGT 201 or MGT 212 3 □
U.S./Nevada Constitution 3 □

Fourth Semester Completed
BUS 107 3 □
COT Elective 3 □
Degree Electives 3 □
Real Estate Elective 3 □
Science Elective 3 □
CHEMISTRY
Associate of Science

The Chemistry emphasis is designed to place students wishing to pursue studies in the fields of chemistry or geochemistry, either as a university major or as preparation for a teaching career.

Salary: $46,900–$70,800 / year (middle range - Nevada)
Career Outlook: Slower than average growth through 2014
Good To Know: For advancement, some fields require graduate degrees
WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 60 credits

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 190</td>
<td>Introduction to Cell and Molecular Biology</td>
</tr>
<tr>
<td>BIOL 190L</td>
<td>Introduction to Cell and Molecular Biology Lab</td>
</tr>
<tr>
<td>CHEM 121</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 182</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHYS 180</td>
<td>Engineering Physics I</td>
</tr>
<tr>
<td>PHYS 180L</td>
<td>Engineering Physics I Lab</td>
</tr>
<tr>
<td>PHYS 181</td>
<td>Engineering Physics II</td>
</tr>
<tr>
<td>PHYS 181L</td>
<td>Engineering Physics II Lab</td>
</tr>
</tbody>
</table>

Emphasis Electives
Choose 8 credits from the following list:

- CHEM 220 Introductory Organic Chemistry | 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 |
- GEOL 101 Physical Geology | 3 |
- GEOL 103 Physical Geology Laboratory | 1 |
- GEOL 132 Rocks & Minerals | 3 |
- MATH 283 Calculus III | 4 |
- MATH 285 Differential Equations | 3 |
- METE 250 Elements of Material Science | 3 |

General Education Requirements | 24 Credits

- English/Communications Requirements (Must include a writing course) | 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: NOTE: CAPS 122 is strongly recommended but not required for graduation. CHEM 201 and 202 are acceptable in lieu of CHEM 121 and 122. PHYS 180/180L and 181/181L are acceptable in lieu of PHYS 151 & 152. GEOL 101/103 recommended in addition to the above for those pursuing a bachelor's degree in geochemistry.
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: $45,000–$69,600 / year (middle range - Nevada)
Career Outlook: Much faster than average growth through 2014
Good To Know: Bachelor’s degree required for most systems analysts
WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 64 credits

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>40 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 201 General Chemistry For Scientists &amp; Engineers I</td>
<td>3</td>
</tr>
<tr>
<td>CIT 130 Beginning Java</td>
<td>3</td>
</tr>
<tr>
<td>CIT 260 Systems Analysis and Design I</td>
<td>3</td>
</tr>
<tr>
<td>CPE 201 Introduction to Computer Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CS 135 Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 202 Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 181 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 182 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 283 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 180 Engineering Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 180L Engineering Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 181 Engineering Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 181L Engineering Physics II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

General Education Requirements: 24 Credits

| English/Communications Requirements | 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 Degree Requirements page.

ASSOCIATE OF SCIENCE COMPUTER SCIENCE Mission & Outcomes

Mission: The purpose of the Associate of Science in Computer Science degree is to prepare students with the necessary skills for transfer to a four-year university, in particular, University of Nevada, Reno. The degree is designed in such a manner as to provide students who do not have plans to continue on to a four-year university, the ability to obtain entry-level employment in the growing field of computing and information science.

Student Learning Outcomes: Students who complete programs in this academic area are expected to demonstrate that they:

- practices and procedures required for transfer to a four-year institution,
- entry-level skill set, and
- theoretical principles relevant to their field of study.

Are able to:

- test successfully on competencies required to pass rigorous academic examinations of their skill level,
- communicate effectively and appropriately, in oral and written form,
- locate, evaluate and properly utilize the tools and resources appropriate to a computer science professional,
- acquire skills and perform tasks necessary for academic advancement,
- demonstrate effective communication and computation skills appropriate to the chosen academic discipline, and
- demonstrate the ability to obtain requirements, design, implement, test, debug and maintain computer programs in at least two computer programming languages.

Appreciate and Value:

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

COMPUTER SCIENCE Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 130 General Education Courses</td>
<td>3</td>
</tr>
<tr>
<td>MATH 181</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121</td>
<td>4</td>
</tr>
<tr>
<td>CIT 260 General Education Courses</td>
<td>3</td>
</tr>
<tr>
<td>MATH 182</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 135 General Education Courses</td>
<td>3</td>
</tr>
<tr>
<td>MATH 283</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 180</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 201 General Education Courses</td>
<td>4</td>
</tr>
<tr>
<td>CS 202</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 181</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 181L</td>
<td>1</td>
</tr>
</tbody>
</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 five Associate of Applied Science degrees:
- Computer Networking Technology
- Network Technology Management
- Security & Information Assurance
- Convergence Technology
- Health Information Technology
- Office Technology
- Web Technology
  - Web Administration
  - Web Design
  - Web Programming

The college offers seven Certificates of Achievement:
- Cisco Systems
- Computer Programming
- Medical Coding
- Medical Transcription
- Medical Unit Clerk
- Microcomputer/Network Technician
- Network Administration

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

### COMPUTER TECHNOLOGY

**CISCO Systems Certificate of Achievement**

**Salary:** $48,300–$75,600 / year (middle range - Nevada)

**Career Outlook:** Slower than average growth through 2014

Good To Know: Best to know more than one programming language

WNC Academic Division: For more information about this program of study, please contact the Business Division.

**Total Requirements:** 30 credits

**Core Requirements**

- CIT 130 Beginning Java
- CIT 180 Database Concepts and SQL
- CIT 260 Systems Analysis and Design I
- IS 101 Introduction to Information Systems

**Choose 9 credits from the following**

- CIT 132 Beginning Visual Basic
- CIT 133 Beginning C++
- CIT 230 Advanced Java
- CIT 232 Advanced Visual Basic
- CIT 233 Advanced C++
- CS 135 Computer Science I
- CS 202 Computer Science II

**General Education Requirements**

- English/Literature Requirements (Must include a writing course)
- Mathematics Requirement

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

---

**COMPUTER TECHNOLOGY**

**CADEMIC DEGREES**

**COMPUTER TECHNOLOGY**

**COMPUTER TECHNOLOGY CISCO SYSTEMS Certificate of Achievement**

**Salary:** $45,000–$68,000 / year (middle range - Nevada)

**Career Outlook:** Growth will be much faster than average through 2014

Good To Know: Best to know more than one programming language

WNC Academic Division: For more information about this program of study, please contact the Business Division.

**Total Requirements:** 32 – 34 credits

**Core Requirements**

- CIT 260 Systems Design
- COT 202 Introduction to Computer Applications

**Subject Requirements**

- CIS 202B CISCO Internetworking Academies I
- CIS 212B CISCO Internetworking Academies II
- CIS 220B CISCO Internetworking Academies III
- CIS 221B CISCO Internetworking Academies IV

**General Education Requirements**

- English/Literature Requirements (Must include a writing course)
- Mathematics Requirement

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

---

**COMPUTER TECHNOLOGY**

**COMPUTER TECHNOLOGY PROGRAMS**

**COMPUTER TECHNOLOGY - COMPUTER PROGRAMMING**

**Certificate of Achievement Mission & Outcomes**

Mission: The Certificate of Achievement in Computer Programming is designed to give students the tools to not only make them better computer programmers, but to make them appeal to employers who are seeking entry-level employees with computer programming skills.

Student Learning Outcomes: Students who complete programs in this academic area are expected to demonstrate that they know:

- programming skills.

- the theoretical principles relevant to computer information technology.

Are able to:

- test successfully on competencies required to pass industry 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 field of computer information technology,

Appreciate and value:

- appropriate and effective presentation of themselves to potential employers, and standards of social, ethical, legal, accessibility, and diversity issues of their work environment.
COMPUTER TECHNOLOGY
Microcomputer/Network Technician Certificate of Achievement

This certificate is designed to provide the skills required of ‘Help Desk’ or computer support personnel.

Salary: $45,000–$72,000 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: People & technical skills needed
WNC Academic Division: For more information about this program of study, please contact the Business Division.

**Total Requirements:** 33 – 35 credits

**Core Requirements**
- CIT 215 Microsoft Networking V 4–8
- CIT 214 Microsoft Networking IV 4
- CIT 213 Microsoft Networking III 4
- CIT 212 Microsoft Networking II 4
- CIT 211 Microsoft Networking I 4
- CIT 198B Special Topics in Computer Information 4

**Choose 8 credits from**
- CIT 112B Network + 3
- CIT 111 A+ Software 3
- CIT 110 A+ Hardware 3

**Subject Requirements**
- COT 202 Introduction to Computer Applications 3

**General Education Requirements**
- English/Communications Requirements (Must include a writing course) 6
- Human Relations Requirement 1–3
- Mathematics Requirement 3

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

---

**COMPUTER TECHNOLOGY NETWORK ADMINISTRATION**
Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course (Completed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>CIT 110 3</td>
</tr>
<tr>
<td></td>
<td>CIT 111 3</td>
</tr>
<tr>
<td></td>
<td>CIT Elective 4</td>
</tr>
<tr>
<td></td>
<td>ET 102B 3</td>
</tr>
<tr>
<td>Second</td>
<td>CIT 112B 3</td>
</tr>
<tr>
<td></td>
<td>CIT Elective 4</td>
</tr>
<tr>
<td></td>
<td>General Education Courses 6</td>
</tr>
</tbody>
</table>

---

**MICROSOFT CERTIFICATION AND LICENSING PREPARATION**

**Microsoft Certified Desktop Support Technician (MCDST)** - Microsoft Certified Desktop Support Technician (MCDST) candidates must pass two independently administered exams.

- Total Requirements: 8 credits
- Certification Requirements 8 Credits
  - CIT 211: Microsoft Networking I 4
  - CIT 215: Microsoft Networking V 4
- *TOPIC: Supporting & Troubleshooting Applications on Windows XP

**Microsoft Certified Systems Administrators (MCSE)** - Microsoft Certified Systems Administrators (MCSA) candidates must pass four independently administered exams. Three electives are required to complete Microsoft’s MCSE certification, including one focused on design.

- Total Requirements: 16 credits
- Certification Requirements 16 Credits
  - CIT 211: Microsoft Networking I 4
  - CIT 212: Microsoft Networking II 4
  - CIT 213: Microsoft Networking III 4
  - CIT 215: Microsoft Networking V 4

---

**Microsoft Certified Systems Engineers (MCSE)** - Microsoft Certified Systems Engineers (MCSE) candidates must pass seven independently administered exams. Three electives are required to complete Microsoft’s MCSE certification, including one focused on design.

- Total Requirements: 28 credits
- Certification Requirements 28 Credits
  - CIT 211: Microsoft Networking I 4
  - CIT 212: Microsoft Networking II 4
  - CIT 213: Microsoft Networking III 4
  - CIT 214: Microsoft Networking IV 4
  - CIT 215: Microsoft Networking V 4

WNC Academic Division: For more information about this program of study, please contact the Business Division.

---

www.wnc.edu
COMPUTER TECHNOLOGY

Computer Networking Technology Associate of Applied Science

This program is designed for students seeking career skills in computer networking environments. Choose one of three specializations to customize the program: Network Technology Management, Security and Information Assurance, or Transfer Option.

Salary: $45,000–$72,000 / year (middle range - Nevada)
Career Outlook: Much faster than average growth through 2014
Good To Know: Businesses & government are investing heavily in 'cyber-security'
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 62 credits
Program Requirements 38 Credits
CIT 161B Essentials of Information Security 3
CIT 211 Microsoft Networking I 4
CIT 212 Microsoft Networking II 4
CISCO 120B CISCO Internetworking Academies I 4
CISCO 121B CISCO Internetworking Academies II 4
IS 101 Introduction to Information Systems 3

Specialization Requirements
Choose 16 credits from one of the following three specializations:

NETWORK TECHNOLOGY MANAGEMENT
CIT 260 Systems Analysis and Design I 3
CISCO 130B Fundamentals of Wireless LANs 4
MGT 201 Principles of Management 3
or MGT 212 Leadership & Human Relations 3
or MGT 283 Introduction to Human Resources Management 3

SECURITY AND INFORMATION ASSURANCE
STAT 152 Introduction to Statistics 3
Any one course from the following: CA, CIT, COT, CISCO or IS course 3

CUSTOMIZED OPTION
Students may take 16 credits, depending upon the specialization or the requirements of the transfer institution. Prior department approval required. More than 16 credits may be required.

General Education Requirements 24 Credits

<table>
<thead>
<tr>
<th>Requirements</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>Humanities/Social Science Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement (Recommended: MATH 126 or higher)</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>
</tbody>
</table>

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

WESTERN NEVADA COLLEGE • 2007-2008

ACADEMIC DEGREES

COMPUTER TECHNOLOGY NETWORK TECHNOLOGY MANAGEMENT

<table>
<thead>
<tr>
<th>Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
</tr>
<tr>
<td>Completed</td>
</tr>
<tr>
<td>BUS 107</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CIT 211</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>CISCO 120B</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Degree Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Degree Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>US/Nev. Constitution</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>IS 101</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Second Semester</td>
</tr>
<tr>
<td>Completed</td>
</tr>
<tr>
<td>BUS 108</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>or CIT 204B</td>
</tr>
<tr>
<td>Course</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CIS 280</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MGT 201, MGT 212</td>
</tr>
<tr>
<td>or CIT 204B</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CISCO 130B</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>MGT 283</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

COMPUTER TECHNOLOGY SECURITY & INFORMATION ASSURANCE

<table>
<thead>
<tr>
<th>Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
</tr>
<tr>
<td>Completed</td>
</tr>
<tr>
<td>BUS 107</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CIT 211</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>CISCO 120B</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Degree Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CISCO 121B</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Degree Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>US/Nev. Constitution</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>IS 101</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Second Semester</td>
</tr>
<tr>
<td>Completed</td>
</tr>
<tr>
<td>BUS 108</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>or CIT 204B</td>
</tr>
<tr>
<td>Course</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CIS 280</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MGT 201, MGT 212</td>
</tr>
<tr>
<td>or CIT 204B</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>CISCO 130B</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>or MGT 283</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

COMPUTER TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE

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, and
- 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.

www.wnc.edu

20
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 both an associate degree and a new bachelor’s degree in the field.

The program offers instruction which is critical to preparing skilled employees in the following areas:

- Construction Project Management
- Construction Management

The college also offers classes toward licensure in:

- Certified Inspector of Structures

CONSTRUCTION TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE

Mission & Outcomes

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,
- demonstrates the ability to communicate with the above entities per industry standards,
- demonstrates the ability to produce a construction schedule,
- understands the implementation and coordination of a construction schedule,
- demonstrates the ability to write construction contracts per industry standards,
- demonstrates an understanding of construction law,
- utilizes the various resources available to explore new construction methods an insure quality control,
- demonstrates the ability to favorably represent himself or herself to a potential employer.

Certified Inspector of Structures

- demonstrates an understanding of all components within a certified inspection,
- demonstrates the ability to conduct a certified inspection per NRS 645D,
- demonstrates the ability to produce a credible, professional report consistent with NRS 645D,
- successfully completes the State of Nevada examination for Certified Inspector of 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: $45,800–$68,200 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: About 47 percent are self-employed.

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 63 credits

Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 101B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 108B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 120B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 121B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 205B</td>
<td>1</td>
</tr>
<tr>
<td>CONS 282B</td>
<td>2</td>
</tr>
</tbody>
</table>

Emphasis Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 198B</td>
<td>2</td>
</tr>
<tr>
<td>CONS 114B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 116B</td>
<td>2</td>
</tr>
<tr>
<td>CONS 118B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 216B</td>
<td>2</td>
</tr>
<tr>
<td>CONS 230B</td>
<td>2</td>
</tr>
<tr>
<td>CONS 281B</td>
<td>3</td>
</tr>
<tr>
<td>CONS 290B</td>
<td>3</td>
</tr>
<tr>
<td>SUR 119B</td>
<td>4</td>
</tr>
</tbody>
</table>

General Education Requirements

<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 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 Degree Requirements page.

CONSTRUCTION TECHNOLOGY Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>BUS 107</td>
<td>3</td>
<td>CONS 116B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CONS 108B</td>
<td>3</td>
<td>CONS 118B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CONS 120B</td>
<td>3</td>
<td>CONS 216B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MATH 110B</td>
<td>3</td>
<td>CONS 281B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitution</td>
<td>3</td>
<td>PHYS 100</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SUR 119B</td>
<td>4</td>
</tr>
<tr>
<td>Second</td>
<td>BI 101B</td>
<td>3</td>
<td>Fourth</td>
<td>AC 198B</td>
</tr>
<tr>
<td></td>
<td>BUS 108</td>
<td>3</td>
<td>Semester</td>
<td>BUS 110B</td>
</tr>
<tr>
<td></td>
<td>CONS 121B</td>
<td>3</td>
<td>CONS 114B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CONS 205B</td>
<td>1</td>
<td>CONS 230B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CONS 282B</td>
<td>2</td>
<td>CONS 290B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Humanities/ Social Science Course</td>
<td>3</td>
<td>Science Course</td>
<td>3</td>
</tr>
</tbody>
</table>

www.wnc.edu
CONSTRUCTION MANAGEMENT
Bachelor of Technology

The Bachelor of Technology degree in Construction Management provides associate degree students, new students and skilled workers with 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. It 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.

Information................................................. 775-445-3267

Salary: $58,600 – $103,800 / year (middle range - Nevada)
Career Outlook: Average growth through 2014.
Good To Know: Those with a bachelor’s degree have a better chance of finding jobs and earning higher pay. Most managers supervise several areas at once, and new building technologies require more supervision.

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 128 credits

Business Core
- ACC 201 Financial Accounting 3
- ECON 102 Principles of Microeconomics 3
- ECON 103 Principles of Macroeconomics 3
- ECON 261 Principles of Statistics I 3
- MGT 323 Organizational Behavior and Interpersonal Behavior 3
- MGT 367 Human Resource Management 3

Construction Core Requirements
- AC 198B Special Topics in HVAC 2
- BI 101B Introduction to Building Codes 3
- CADD 120B Architectural Drafting I 3
- CEE 411 Environmental Law 3
- CEE 462 Construction Cost Estimating 3
- CEE 463 Project Scheduling 3
- CEE 464 Construction Law 2
- CEE 465 Construction Cost Accounting 2
- CEE 466 Construction Management 2
- CEE 495 Special Topics 3
- CONS 108B Construction Materials and Methods 3
- CONS 114B Soils, Sitework, Concrete and Testing 3
- CONS 116B Plumbing Principles and Methods 2
- CONS 118B Construction Contract Documents 3
- CONS 120B Blueprint Reading and Specification 3
- CONS 121B Principles of Construction Estimating 3
- CONS 205B Construction Site Safety 1
- CONS 216B Structural Layout Assembly 2
- CONS 230B Electrical Distribution System 2
- CONS 281B Construction Planning Scheduling And Control 3
- CONS 351 Advanced Project Supervision 5
- CONS 451 Advanced Internship in Construction 2
- SUR 119B Construction Surveying 4

General Education Requirements
- 48 Credits

Choose from the list on the right.

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.

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 10 credits

License Requirements
- CONS 260B Certified Inspectors of Structures-Residential 3
- CONS 261B Under-Floor Inspections-Certified Inspector 1
- CONS 262B Above-Floor Inspections for Certified Inspector 2
- CONS 263B Supervised Residential Inspections for Certification 4

Bachelor of Technology in Construction Management

General Education List

Capstone Course-9 credits. Choose from:
- Management: 462, 469

Economics: 334, 365

English/Communications Requirements-9–11 credits. Choose from:
- Business: 107, or
- English: 100, or 101
- Communication: 113 or 213 or 215

Fine Arts Requirement-3 credits. Choose from:
- Art: 100, 101, 124, 160, 224, 260, 261
- Music: 111, 121
- Dance: 101
- Theatre: 100, 105, 180
- Humanities: 101

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. Choose from:
- a minimum of 5 credits in mathematics and 7 credits in science.

Mathematics
- Statistics: 152
- Mathematics: 126 & 127, 128 or higher

Science
- Chemistry: 100, 121, 201
- Environmental Studies: 100
- Geology: 100, 101, 103
- Physics: 100, 151, 180

Social Sciences Requirement-6 credits. Choose from:
- 3 credits must be an upper division course (300-400 level, see a counselor).
- Anthropology: 101, 201, 202, 205, 210, 212
- Core Humanities: 203
- Criminal Justice: 101, 102, 220, 230, 270
- Geography: 106
- 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)

U.S. and Nevada Constitution Requirements-3 or 6 credits. Choose from:
- Core Humanities: 203
- History: 111, or
- History: 101 & 217, or
- History: 101 & 102, or
- Political Science: 103, or
- History and Political Science Combination (History 101, and, PSC 208)
CONVERGENCE TECHNOLOGY
Associate of Applied Science

The Convergence Technology degree is designed to prepare students with a breadth of knowledge in the primary areas of convergence: Data Networking, Telephony, and Convergence, with areas of focus in wireless LANs, VoIP (Voice over IP), network security, telephony and troubleshooting of converged networks. Convergence technology is the merging of voice, video and data on a single network, integrating telecommunications and computer technology in a way that opens powerful new avenues of communication.

Salary: $44,500–$72,000 / year (middle range - U.S.)
Career Outlook: High demand through 2014
Good To Know: Technicians are a necessity for unified communications solutions for voice, data and video
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 64 credits

Core Requirements 40 Credits
CIT 129 Introduction to Programming 3
CIT 165B Introduction to Convergence 3
CIT 211 Microsoft Networking I 4
CIT 212 Microsoft Networking II 4
CSCO 120B CISCO Internetworking Academies I 4
CSCO 121B CISCO Internetworking Academies II 4
ET 131B Electronics I 4
ET 155B Home Technology Convergence 4
ET 265B Fundamentals of Telecommunications 3

Choose at least 7 credits from the following convergence electives:
ET 132B Electronics II 4
ET 198B Special Topics in Electronics 3-6
ET 200B Electronics Projects 3-6
CIT 161B Essentials of Information Security 3
CIT 213 Microsoft Networking III 4
CIT 214 Microsoft Networking IV 4
CIT 269B Advanced Convergence 3
CSCO 220B CISCO Internetworking Academies III 4
CSCO 221B CISCO Internetworking Academies IV 4
CSCO 130B Fundamentals of Wireless LANs 4

General Education Requirements 24 Credits
English/Communications Requirement
(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 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 Degree Requirements page.

ASSOCIATE OF APPLIED SCIENCE CONVERGENCE TECHNOLOGY
Mission & 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 programs in occupational areas are expected to demonstrate that they know:
• the subject matter appropriate to the emphasis of the degree
Are able to:
• communicate effectively and appropriately, in oral and written form,
• locate, evaluate and properly utilize the tools and resources appropriate to a computer technology professional,
• acquire skills and perform tasks necessary for employment or career enhancement
Have developed:
• an appreciation of the importance of social, ethical, legal and diversity issues
• an appreciation of the need and importance of lifelong learning
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: $44,000–$64,700 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Must be physically fit; may work weekends, holidays & nights
WNC Academic Division: For more information about this program of study, please contact the Social Science, Education, Humanities & Public Service Division.

Total Requirements: 60 credits

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 101</td>
<td>Introduction to Criminal Justice I</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 102</td>
<td>Introduction to Criminal Justice II</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 164</td>
<td>Principles of Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 220</td>
<td>Criminal Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 230</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 270</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis Requirements

Choose 9 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 106</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 155</td>
<td>Juvenile Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 211</td>
<td>Police in America</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 225</td>
<td>Criminal Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 265</td>
<td>Introduction to Physical Evidence</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 9 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 107</td>
<td>Business Speech Communications</td>
<td>3–6</td>
</tr>
<tr>
<td>or BUS 108</td>
<td>Business Letters and Reports</td>
<td></td>
</tr>
<tr>
<td>COM 113</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>COT 105</td>
<td>Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>or COT 113</td>
<td>Integrated Software</td>
<td></td>
</tr>
<tr>
<td>or COT 202</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CPD 116</td>
<td>Substance Abuse-fundamental Facts</td>
<td>3</td>
</tr>
<tr>
<td>or CPD 117</td>
<td>Introduction to Counseling</td>
<td></td>
</tr>
<tr>
<td>CRJ 295</td>
<td>Work Experience - Corrections</td>
<td>1–6</td>
</tr>
<tr>
<td>or CRJ 296</td>
<td>Work Experience - Juvenile Justice</td>
<td></td>
</tr>
<tr>
<td>or CRJ 297</td>
<td>Work Experience - Law Enforcement</td>
<td></td>
</tr>
<tr>
<td>or CRJ 298</td>
<td>Work Experience - Probation and Parole</td>
<td></td>
</tr>
<tr>
<td>IS 101</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Principles of Management</td>
<td>3–6</td>
</tr>
<tr>
<td>or MGT 212</td>
<td>Leadership &amp; Human Relations</td>
<td></td>
</tr>
<tr>
<td>or MGT 235</td>
<td>Organizational Behavior</td>
<td></td>
</tr>
<tr>
<td>or MGT 283</td>
<td>Introduction to Human Resources Management</td>
<td>3–6</td>
</tr>
<tr>
<td>SW 220</td>
<td>Introduction to Social Work</td>
<td>3–6</td>
</tr>
<tr>
<td>SW 230</td>
<td>Crisis Intervention</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

(Recommended: ENG 101, ENG 102; must include a writing course) 6

Humanities/Social Science Requirements

(Humanities Course Required) 3

Mathematics Requirement 3

Science Requirement 6

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 Degree Requirements page.

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/Police 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.

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 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: $54,000–$76,000 / year (middle range - Nevada)
Career Outlook: Depends on specialization; demand is strong for investigators & detectives
Good To Know: Must enforce laws, gather facts & evidence; may also work with the public
WNC Academic Division: For more information about this program of study, please contact the Social Science, Education, Humanities & Public Service Division.

Total Requirements: 60 credits
Core Requirements 21–24 Credits
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 3
or CRJ 230 Criminal Law 3
CRJ 225 Criminal Evidence 3
CRJ 270 Introduction to Criminology 3

General Education Requirements 36–39 Credits
English/Communications Requirements (ENG 101 & ENG 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 filling general education requirements for the Associate of Arts can be found on the Associate of Arts Degree Requirements 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>Degree 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>Degree Electives</td>
<td>3</td>
</tr>
<tr>
<td>Degree 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>
**CRIMINAL JUSTICE**

*Law Enforcement/Academy Associate of Applied Science*

The Law Enforcement Academy emphasis is designed to prepare students for various careers within the field of criminal justice. In Nevada, a Category I and III Post Certificate is necessary for most local and state jobs in the criminal justice field. This major, with the Western Nevada State Peace Officer Academy as the emphasis, allows a student to go right into a criminal justice career in Nevada.

**Salary:** $46,500–$64,700 / year (middle range - Nevada)

**Career Outlook:** Faster than average growth through 2014

**Good To Know:** Communication skills are important; may work weekends, holidays and nights

**WNC Academic Division:** For more information about this program of study, please contact the Social Science, Education, Humanities & Public Service Division.

**Total Requirements:** 66.5 credits

**Core Requirements**

<table>
<thead>
<tr>
<th>CRJ 101</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 102</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 164</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 220</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 230</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 270</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emphasis Requirements**

<table>
<thead>
<tr>
<th>CRJ 103</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 266B*</td>
<td>27</td>
</tr>
<tr>
<td>EMS 100B</td>
<td>0.5</td>
</tr>
<tr>
<td>EMS 113B</td>
<td>3</td>
</tr>
</tbody>
</table>

* Spring and summer classes that will fulfill the POST requirement

**General Education Requirements**

| English/Communications Requirement (Recommended: ENG 101) | 3 |
| Mathematics Requirement | 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 Degree Requirements page.

Note: Documentation and currency of health insurance (card) is required.

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 101</td>
<td>3</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 102</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 164</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 220</td>
<td>3</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 230</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 270</td>
<td>3</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 103</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 266B</td>
<td>27</td>
</tr>
<tr>
<td>EMS 100B</td>
<td>0.5</td>
</tr>
<tr>
<td>EMS 113B</td>
<td>3</td>
</tr>
</tbody>
</table>

**Certification of Achievement**

**LAW ENFORCEMENT/ACADEMY CERTIFICATE OF ACHIEVEMENT**

**Mission & Outcomes**

**Mission:** 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, take, and pass the Peace Officers Standards and Training test.

**Student Learning Outcomes:**

- Prepare to become Law Enforcement Officers in the state of Nevada by getting 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

**WNC Academic Division:** For more information about this program of study, please contact the Social Science, Education, Humanities & Public Service Division.

**Total Requirements:** 39.5 credits

**Core Requirements**

| CRJ 103 | 3 |
| CRJ 266B | 27 |
| EMS 100B | 0.5 |
| EMS 113B | 3 |

* Spring and summer classes that will fulfill the POST requirement

**General Education Requirements**

| English/Communications Requirements (Recommended: ENG 101) | 3 |
| Mathematics Requirement | 3 |

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

Note: Documentation and currency of health insurance (card) is required.

**CRIMINAL JUSTICE**

*Law Enforcement/Academy Associate of Applied Science*

**Mission & Outcomes**

**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 WNCC
- 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

**Eamil:** support@wnc.edu

**Website:** www.wnc.edu
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: $22,600–$34,400 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Positions are located throughout the country in various types of companies.
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 30 credits
Subject Requirements  15 Credits
BUS 101 Introduction to Business 3
or MGT 103 Small Business Management 3
BUS 110B Human Relations For Employment 3
or MGT 212 Leadership & Human Relations 3
BUS 112B Customer Service 3
BUS 113B Workplace Attitude Development 1
BUS 114B Effective Listening and First Impressions 1
BUS 115B Workplace Time Management & Goal Setting 1
BUS 116B Effective Telephone Techniques 1
BUS 118B Resolving Customer Complaints 1
BUS 119B Work Decision Making & Conflict Resolution 1

Subject Requirements  6 Credits
Choose 6 credits from the following
BUS 266B Developing Your Resume 1
BUS 287B Interviewing Techniques 1
MGT 201 Principles of Management 3
MGT 235 Organizational Behavior 3
MGT 283 Introduction to Human Resources Management 3
Choose from any ACC prefix 3
Choose from any CIT, COT or IS prefix 0.5–1
Choose from any MKT prefix 1–6

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 Degree Requirements 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

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 4 – 12 credits
Certification Requirements 4–12 Credits
Choose 4, 8 or 12 credits from the following
BUS 110B Human Relations For Employment 3
or MGT 212 Leadership & Human Relations 3
BUS 112B Customer Service 3
BUS 113B Workplace Attitude Development 1
BUS 114B Effective Listening and First Impressions 1
BUS 115B Workplace Time Management & Goal Setting 1
BUS 116B Effective Telephone Techniques 1
BUS 118B Resolving Customer Complaints 1
BUS 119B Work Decision Making & Conflict Resolution 1
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.

Salary: $27,400–$67,700 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Interpreters may be paid by the day, often by the courts or schools

WNC Academic Division: For more information about this program of study, please contact the Communication and Fine Arts Division.

<table>
<thead>
<tr>
<th>Total Requirements: 60 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Requirements</td>
</tr>
<tr>
<td>AM 145</td>
</tr>
<tr>
<td>AM 146</td>
</tr>
<tr>
<td>AM 147</td>
</tr>
<tr>
<td>AM 148</td>
</tr>
<tr>
<td>AM 151</td>
</tr>
<tr>
<td>AM 152</td>
</tr>
<tr>
<td>AM 153</td>
</tr>
<tr>
<td>AM 154</td>
</tr>
</tbody>
</table>

General Education Requirements | 36 Credits
English/Communications Requirements (ENG 101, ENG 102) | 6
Fine Arts Requirement (Recommended: THTR 105) | 3
Humanities Requirement | 6
Mathematics Requirement (MATH 120 or higher) | 3
Science Requirement | 6
Social Sciences Requirement | 9
U.S. and Nevada Constitution Requirements | 3

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

DEAF STUDIES Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 145</td>
<td>4</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>12</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 147</td>
<td>4</td>
</tr>
<tr>
<td>AM 151</td>
<td>1</td>
</tr>
<tr>
<td>AM 153</td>
<td>3</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM 148</td>
<td>4</td>
</tr>
<tr>
<td>AM 152</td>
<td>1</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>9</td>
</tr>
</tbody>
</table>

AMERICAN SIGN LANGUAGE

Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Communication and Fine Arts Division.

<table>
<thead>
<tr>
<th>Total Requirements: 30 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Requirements</td>
</tr>
<tr>
<td>AM 145</td>
</tr>
<tr>
<td>AM 146</td>
</tr>
<tr>
<td>AM 147</td>
</tr>
<tr>
<td>AM 148</td>
</tr>
<tr>
<td>AM 151</td>
</tr>
<tr>
<td>AM 152</td>
</tr>
</tbody>
</table>

General Education Requirements | 12 Credits
English/Communications Requirements (Must include a writing course) | 6
Human Relations Requirement | 3
Mathematics Requirement | 3

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

<table>
<thead>
<tr>
<th>AMERICAN SIGN LANGUAGE Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
</tr>
<tr>
<td>AM 145</td>
</tr>
<tr>
<td>General Education Course</td>
</tr>
<tr>
<td>General Education Courses</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>AM 146</td>
<td>4</td>
<td>AM 148</td>
<td>4</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>3</td>
<td>AM 152</td>
<td>1</td>
</tr>
<tr>
<td>General Education Courses</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.wnc.edu
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.

Salary: $38,700–$55,200 / year (middle range - Nevada)
Career Outlook: Depends on specialty - greatest demand is for architectural & civil drafters, but slower than average through 2014
Good To Know: Specialize in drawing features of buildings & other structures
WNC Academic Division: For more information about this program of study, please contact the Technology Division.

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
- 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 3 credits from the following Capstone Courses:
- CADD 210B CADD Project 3
- CADD 290B Internship in CADD 3

Choose 6 credits from the following degree electives:
- CADD 198B Special Topics in CADD 3
- CADD 210B CADD Project 3
- CADD 220B Architectural Drafting II 3
- CADD 290B Internship in CADD 3
- CADD 295B Independent Study 3
- CONS 114B Soils, Sitework, 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
24 Credits

English/Communications Requirement
(Recommended: BUS 107, BUS 108 must include a writing course) 6

Human Relations Requirement (Recommended: BUS 110B) 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 Degree Requirements page.

DRAFTING TECHNOLOGY - ARCHITECTURAL
Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 31 credits

Subject Requirements
- CADD 100 Introduction to Computer Aided Drafting 3
- CADD 105 Intermediate Computer-Aided Drafting 3
- CADD 120B Architectural Drafting I 3
- CONS 120B Blueprint Reading and Specification 3
- DFT 100 Basic Drafting Principles 3

General Education Requirements
10 Credits

English/Communications Requirements
(Recommended: BUS 107; 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 Degree Requirements page.

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

ASSOCIATE OF APPLIED SCIENCE DRAFTING TECHNOLOGY
ARCHITECTURAL
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.
- acquire skills and perform tasks necessary for employment in the drafting field,
- present themselves effectively to a potential employer,
- effective communication and computation skills appropriate to the drafting field, and
- utilize appropriate resources to remain current in the drafting field.

www.wnc.edu
DRAFTING TECHNOLOGY - CIVIL
Associate of Applied Science

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

Salary: $38,700–$55,200 / year (middle range - Nevada)
Career Outlook: Depends on specialty - greatest demand is for architectural & civil drafters, but slower than average through 2014
Good To Know: Specialize in drawings & maps of highways, pipelines & water systems
WNC Academic Division: For more information about this program of study, please contact the Technology Division.

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 degree 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 Degree Requirements 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.
- acquire skills and perform tasks necessary for employment for a career enhancement in the drafting field,
- present themselves effectively to a potential employer,
- effective communication and computation skills appropriate to the drafting field, and
- utilize appropriate resources to remain current in the drafting field.
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: $37,900–$47,800 / year (middle range - Nevada)
Career Outlook: Slow than average growth through 2014
Good To Know: Most use computer-aided drafting (CAD) systems, but some still is done manually

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

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 Aid drafting 3
- DFT 100 Basic Drafting Principles 3

Emphasis Requirements
- CADD 140 Technical Drafting I 3
- CADD 141B Technical Drafting II 3
- CADD 245 Solid Modeling and Parametric Design 3
- COT 204 Using Windows 3
- DFT 110B Blueprint Reading For Industry 3

Choose 3 credits from the following Capstone Courses:
- CADD 210B CADD Project 3
- CADD 290B Internship in CADD 3

Choose 6 credits from the following degree electives:
- CADD 210B CADD Project 3
- CADD 242 Advanced Technical Drafting 3
- CADD 260B Introduction to CAD/CAM 3
- CADD 290B* Internship in CADD 3
- CADD 295B Independent Study 3
- MTT 105B Machine Shop I 3

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

General Education Requirements
- English/Communications Requirement (Recommended: BUS 107, BUS 108) 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 Degree Requirements page.

DRAFTING TECHNOLOGY - MECHANICAL
Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Technology Division.

Total Requirements: 31 credits
Subject Requirements
- CADD 100 Introduction to Computer Aided Drafting 3
- CADD 105 Intermediate Computer-Aided Drafting 3
- CADD 141B Technical Drafting II 3
- DFT 100 Basic Drafting Principles 3
- DFT 110B Blueprint Reading For Industry 3
- CADD Electives 6

General Education Requirements
- English/Communications Requirement (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 STAT152) 3

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

Note: MATH 110B does not fulfill the requirement for the Associate of Applied Science in Drafting Technology - Mechanical Emphasis, which requires MATH 127 or higher.

DRAFTING TECHNOLOGY - MECHANICAL
Suggested Course Sequence

First Semester
- BUS 107 3
- CADD 100 3
- CADD 105 3
- CADD 200 3
- DFT 110B 3

Second Semester
- BUS 108 3
- CADD 140 3
- CADD 200 3
- MA TH 127 3
- U.S./Nevada Constitution 3

Third Semester
- CADD 141B 3
- CADD 200 3
- Degree Elective 3
- Science Course 3

Fourth Semester
- CADD 210B or CADD 290B 3
- CADD 245 3
- Degree Elective 3
- Science Course 3

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 Technology will be able to demonstrate:
• knowledge of the subject matter appropriate to the drafting technology.
• acquire skills and perform tasks necessary for employment in a career enhancement in the drafting field,
• present themselves effectively to a potential employer,
• effective communication and computation skills appropriate to the drafting field, and
• utilize appropriate resources to remain current in the drafting field.
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.

Division: Social Science, Education, Humanities & Public Service

Division Phone: 775-445-4253

Division Office: Carson City, Bristlecone Building 350
The Early Childhood Education Associate of Applied Science degree provides the information, knowledge and skill training for persons caring for young children in a variety of child care facilities.

Salary: $18,400–$40,200 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Work hours often variable - full-time or part-time; potential to work from home

WNC Academic Division: For more information about this program of study, please contact the Social Science, Education, Humanities & Public Service Division.

Total Requirements: 60 credits

Program Requirements 36 Credits
ECE 121 Parent Care Relations 1
ECE 122 Observation Skills 1
ECE 129 Environment For Infant & Toddler 1
ECE 200 The Exceptional Child 3
ECE 204 Principles of Child Guidance 3
ECE 231 Preschool Practicum: Early Childhood Lab 6
ECE 240 Administration of Preschool 3
ECE 250 Introduction to Early Childhood Education 3
ECE 251 Curriculum in Early Childhood Education 3
HDFS 201 Life Span Human Development 3

Program Electives
Choose 9 credits from the following:
COT 105 Computer Literacy 3
or COT 202 Introduction to Computer Applications
or IS 101 Introduction to Information Systems
HDFS 202 Introduction to Families 3
HDFS 232 Diversity and the Young Child - A Multicultural Perspective 3
Other related Early Childhood Education courses (ECE 123 and ECE 168 are recommended) 1–6
Psychology courses (except Statistical Methods) 1–3

General Education Requirements 24 Credits
English/Communications Requirement (Recommended: BUS 108; must include a writing course) 6
Humanities/Social Science Requirements 3
Mathematics Requirement (Recommended: BUS 109B) 3
Science Requirement (Recommended: NUTR 121) 6
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 Degree Requirements page.
**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 and 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 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:** $35,600–$72,500 / year (middle range - Nevada)

**Career Outlook:** Faster than average growth through 2014 - Aerospace Technicians growth will be slower than average

**Good To Know:** Work with computers; often work in teams

**WNC Academic Division:** For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

---

### Total Requirements: 64 credits

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>27 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121*</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CS 135</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>MATH 181</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 182</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 283</td>
<td>Calculus III</td>
</tr>
<tr>
<td>PHYS 180</td>
<td>Engineering Physics I</td>
</tr>
<tr>
<td>PHYS 180L</td>
<td>Engineering Physics Lab I</td>
</tr>
<tr>
<td>PHYS 181</td>
<td>Engineering Physics II</td>
</tr>
<tr>
<td>PHYS 181L</td>
<td>Engineering Physics Lab II</td>
</tr>
</tbody>
</table>

*CHEM 201 and 202 are acceptable in lieu of CHEM 121 and 122.

### Emphasis Requirements: Program Electives

Choose 13 credits from the following:

| 13 Credits |
|-----------------------|------------|
| CHEM 122* | General Chemistry II | 4 |
| CPE 201 | Introduction to Computer Engineering | 4 |
| CS 202 | Computer Science II | 3 |
| EE 200 | Network Analysis Lab | 1 |
| EE 201 | Introduction to Network Analysis | 3 |
| EE 291 | Computer Methods For Electrical Engineers | 3 |
| EE 296 | Internship I | 1 |
| ENGR 100 | Introduction to Engineering Design | 3 |
| MATH 285 | Differential Equations | 1 |
| ME 198 | Cooperative Training Report | 1 |
| ME 241 | Statics | 3 |
| ME 242 | Dynamics | 3 |
| ME 298 | Cooperative Training Report | 1 |
| METE 250 | Elements of Material Science | 3 |
| PHYS 182 | Engineering Physics III | 3 |
| PHYS 182L | Engineering Physics Lab III | 3 |

*CHEM 201 and 202 are acceptable in lieu of CHEM 121 and 122.

---

### General Education Requirements

24 Credits

| English/Communications Requirements | 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 Degree Requirements page.

### Transfer Notes

Electives: Students may be able to transfer up to 64 credits to the University of Nevada, Reno, toward requirements for a bachelor’s degree in engineering, depending on the major chosen. Students pursuing the Computer Engineering track within Computer Science are advised to take EE 200 and EE 201 as electives. PHYS 182 is required for a bachelor's degree in Engineering Physics at UNR. CHEM 202 is required for a few of the majors leading to a bachelor's degree at the UNR School of Mines, including a bachelor's degree in Chemical Engineering and Metallurgical Engineering at UNR. Please consult the current UNR catalog or an advisor for the latest degree requirements.

For those planning to transfer to the College of Engineering at the University of Nevada, Reno, the following disciplines and electives are the most applicable:

#### Civil Engineering: EE 201 (3), MATH 285(3), ME 241 (3), ME 242 (3), and maximum 3-4 credits from BIOL 190 (3), CHEM 122 (4), GEOL 101 (3), which will be transferred as restrictive electives.

#### Environmental Engineering under Civil Engineering: ME 241 (3), CHEM 142 (3), CHEM 122 (4), BIOL 190 (3)

#### Computer Science: CS 202 (3), CPE 201 (4), EE 201 (3), EE 200 (1), PHYS 182 (4), MATH 285 (3). PHYS and MATH will transfer as general electives.

#### Computer Science with Computer Engineering Track: CS 202 (3), CPE 201 (4), EE 200 (1), EE 201 (3), and maximum four credits from MATH 285 (3) or PHYS 203 (4), which will transfer as general electives.


#### Engineering Physics: CHEM 202 (4), CS 202 (3), EE 201 (3), MATH 285(3), PHY

---

**www.wnc.edu**

---

<table>
<thead>
<tr>
<th>ENGINEERING SCIENCE Suggested Course Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
</tr>
<tr>
<td>CS 135</td>
</tr>
<tr>
<td>English Course</td>
</tr>
<tr>
<td>General Education Courses</td>
</tr>
<tr>
<td>MATH 181</td>
</tr>
<tr>
<td>PHYS 180</td>
</tr>
<tr>
<td>PHYS 180L</td>
</tr>
<tr>
<td>or higher level</td>
</tr>
</tbody>
</table>

Second Semester | Completed |
| CHEM 121 | 4 |
| English Course | 3 |
| MATH 182 | 4 |
| PHYS 181 | 3 |
| PHYS 181L | 1 |
FINE 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: $30,500–$66,800 / year (middle range - Nevada)
Career Outlook: Average growth through 2014
Good To Know: Many fine artists are self-employed; some have graduate degrees
WNC Academic Division: For more information about this program of study, please contact the Communication and Fine Arts Division.

Total Requirements: 60 credits
Program Requirements 21 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>3</td>
</tr>
<tr>
<td>ART 107</td>
<td>3</td>
</tr>
<tr>
<td>ART 101</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>3</td>
</tr>
<tr>
<td>ART 141*</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>3</td>
</tr>
<tr>
<td>ART 127*</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>3</td>
</tr>
<tr>
<td>ART 298*</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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>3</td>
</tr>
<tr>
<td>ART 127*</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 216</td>
<td>3</td>
</tr>
<tr>
<td>ART 115*</td>
<td>3</td>
</tr>
<tr>
<td>ART 211</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 6 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 102</td>
<td>3</td>
</tr>
<tr>
<td>ART 105*</td>
<td>3</td>
</tr>
<tr>
<td>ART 111*</td>
<td>3</td>
</tr>
<tr>
<td>ART 115*</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>3</td>
</tr>
<tr>
<td>ART 127*</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>3</td>
</tr>
<tr>
<td>ART 141*</td>
<td>3</td>
</tr>
<tr>
<td>ART 142*</td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>3</td>
</tr>
<tr>
<td>ART 208*</td>
<td>3</td>
</tr>
<tr>
<td>ART 211</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>3</td>
</tr>
<tr>
<td>ART 216</td>
<td>3</td>
</tr>
<tr>
<td>ART 217</td>
<td>3</td>
</tr>
<tr>
<td>ART 218*</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>3</td>
</tr>
<tr>
<td>ART 227*</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>3</td>
</tr>
<tr>
<td>ART 232</td>
<td>3</td>
</tr>
<tr>
<td>ART 235</td>
<td>3</td>
</tr>
<tr>
<td>ART 236</td>
<td>3</td>
</tr>
<tr>
<td>ART 243*</td>
<td>3</td>
</tr>
<tr>
<td>ART 244*</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 Degree Requirements page.
GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Associate of Applied Science

WNC’s Geographic Information Systems (GIS) program offers students access to rapidly growing career tracks in agencies and industries using computer software packages to store and present information about resources, water, soils geography, land uses, development patterns, utilities and other mapping related functions of planning and management.

Salary: $46,300–$66,800 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Use analytic & technical skills; heavy computer use
WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 60 credits

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>36 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 109</td>
<td>Introduction to Geographic Information Systems</td>
</tr>
<tr>
<td>GIS 110</td>
<td>Principles of Cartography</td>
</tr>
<tr>
<td>GIS 111</td>
<td>Introduction to Remote Sensing</td>
</tr>
<tr>
<td>GIS 112</td>
<td>Introduction to ArcInfo</td>
</tr>
<tr>
<td>GIS 170B</td>
<td>GIS Applications on Conservation Issues</td>
</tr>
<tr>
<td>GIS 171B</td>
<td>GIS Applications in Urban &amp; Regional Planning</td>
</tr>
<tr>
<td>GIS 172B</td>
<td>Current Trends in GIS</td>
</tr>
<tr>
<td>GIS 205</td>
<td>GIS Applications</td>
</tr>
<tr>
<td>GIS 212</td>
<td>Intermediate ArcInfo</td>
</tr>
<tr>
<td>GIS 235</td>
<td>Spatial Analysis in GIS</td>
</tr>
<tr>
<td>GIS 250</td>
<td>GIS Database</td>
</tr>
<tr>
<td>GIS 270</td>
<td>GIS Extensions</td>
</tr>
<tr>
<td>GIS 280</td>
<td>Internship in GIS</td>
</tr>
<tr>
<td>GIS 290</td>
<td>GIS Careers / Portfolio</td>
</tr>
</tbody>
</table>

General Education Requirements 24 Credits
- English/Communications Requirement | 6 |
- Human Relations Requirement | 3 |
- Humanities/Social Science Requirements (Recommended: GEOG 106) | 3 |
- Mathematics Requirement
  (MATH 126 or higher is required. STAT 152 is recommended) | 3 |
- Science Requirement
  (Recommended: GEOG 103) | 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 Degree Requirements page.

GEOGRAPHIC INFORMATION SYSTEMS (GIS) Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 30 credits

<table>
<thead>
<tr>
<th>Subject Requirements</th>
<th>21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 103</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>GIS 109</td>
<td>Introduction to Geographic Information Systems</td>
</tr>
<tr>
<td>GIS 110</td>
<td>Principles of Cartography</td>
</tr>
<tr>
<td>GIS 112</td>
<td>Introduction to ArcInfo</td>
</tr>
<tr>
<td>GIS 205</td>
<td>GIS Applications</td>
</tr>
<tr>
<td>GIS 250</td>
<td>GIS Database</td>
</tr>
<tr>
<td>GIS 270</td>
<td>GIS Extensions</td>
</tr>
</tbody>
</table>

General Education Requirements 9 Credits
- English/Communications Requirements (Must include a writing course) | 3 |
- Human Relations Requirement (PSY recommended) | 1–3 |
- Mathematics Requirement (STAT 152, MATH 126 or higher) | 3 |
- General Electives | 0–2 |

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

GEOGRAPHIC INFORMATION SYSTEMS (GIS) 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>General Education Courses 6</td>
<td></td>
<td>General Education Courses 6</td>
<td></td>
</tr>
<tr>
<td>GIS 109</td>
<td>3</td>
<td>GIS 171B</td>
<td>1</td>
</tr>
<tr>
<td>GIS 110</td>
<td>3</td>
<td>GIS 212</td>
<td>3</td>
</tr>
<tr>
<td>GIS 112</td>
<td>3</td>
<td>GIS 235</td>
<td>3</td>
</tr>
<tr>
<td>GIS 280</td>
<td>3</td>
<td>GIS 280</td>
<td>3</td>
</tr>
<tr>
<td>Second Semester</td>
<td>Completed</td>
<td>Fourth Semester</td>
<td>Completed</td>
</tr>
<tr>
<td>General Education Courses 9</td>
<td></td>
<td>General Education Courses 3</td>
<td></td>
</tr>
<tr>
<td>GIS 111</td>
<td>3</td>
<td>GIS 172B</td>
<td>1</td>
</tr>
<tr>
<td>GIS 170B</td>
<td>1</td>
<td>GIS 250</td>
<td>3</td>
</tr>
<tr>
<td>GIS 205</td>
<td>3</td>
<td>GIS 270</td>
<td>3</td>
</tr>
<tr>
<td>GIS 290</td>
<td>3</td>
<td>GIS 290</td>
<td>3</td>
</tr>
</tbody>
</table>
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 your planned four-year major.

Salary: $50,300–$89,600 / year (middle range - Nevada)
Career Outlook: Slower growth than average through 2014
Good To Know: Often requires graduate degrees for career advancement

WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 60 – 62 credits

Emphasis Requirements 18–19 Credits
GEOG 103 Physical Geography 3
GEOG 104 Physical Geography Laboratory 1
GEOG 106 Introduction to Cultural Geography 3
GEOL 101 Physical Geology 3
GEOL 103 Physical Geology Laboratory 1

Choose one course:
BIOL 100 General Biology For Non-Science Majors 3
BIOL 190 Introduction to Cell and Molecular Biology 3
BIOL 191 Introduction to Organismal Biology 3

Choose one course:
CHEM 100 Molecules and Life in the Modern World 3
CHEM 121 General Chemistry I 4
CHEM 122 General Chemistry II 4
CHEM 201 General Chemistry For Scientists & Engineers I 4
CHEM 202 General Chemistry For Scientists & Engineers II 4

Emphasis Requirements: Program Electives 12–13 Credits
Choose 12-13 credits from the following:
BIOL 190L Introduction to Cell and Molecular Biology Lab 1
BIOL 191L Introduction to Organismal Biology Lab 1
ENV 100 Humans and Environment 3
GEOG 117 Meteorology & Climatology 3
GEOG 100 Earthquakes, Volcanoes, and Natural Disasters 3
GEOL 102 Earth and Life Through Time 4
GEOL 127 Prehistoric Life 3
GEOL 132 Rocks & Minerals 3
GEOL 201 Geology of Nevada 3
GIS 109 Introduction to Geographic Information Systems 3
GIS 205 GIS Applications 3
PHYS 100 Introductory Physics 3
PHYS 151 General Physics I 4
PHYS 152 General Physics II 4
PHYS 180 Engineering Physics I
PHYS 180L Engineering Physics I Lab
PHYS 181 Engineering Physics II
PHYS 181L Engineering Physics II Lab

General Education Requirements

<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>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>

* 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: 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. Please consult the current UNR or appropriate university catalog or an advisor for degree requirements.

GEOSCIENCES Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>ENG 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENV 100</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOL 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOL 103</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Math Course</td>
<td>3</td>
</tr>
<tr>
<td>Second Semester</td>
<td>CHEM 100, CHEM 121</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or CHEM 122</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOG 106</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOL 103</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Math Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Program Electives</td>
<td>3–4</td>
</tr>
<tr>
<td>Third Semester</td>
<td>General Education Courses 12</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Courses 12</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Courses 12</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Courses 12</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Program Electives</td>
<td>6–8</td>
</tr>
</tbody>
</table>

GEOSCIENCES ASSOCIATE OF SCIENCE Mission & Outcomes

Mission: The mission of the Associate of Science degree is “to provide academic knowledge and skills for successful transfer to meet higher educational goals.” Additionally, the mission for this degree is “to provide a strong foundation in earth and physical sciences” and to “prepare students for transfer into many disciplines, including geology, geography, environmental science, and science teaching.”

Student Learning Outcomes: The student learning outcomes, pertinent to this degree, are as follows:
- understand the methods of science and the role of science and technology in the modern world.
- know the subject matter appropriate to the emphasis of this degree.
- 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 one of the career fields involving graphic arts and computer-aided design and layout.

Salary: $31,500–$53,100 / year (middle range - Nevada)
Career Outlook: Faster than average growth, through 2014 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; many graphic artists are self-employed

WNC Academic Division: For more information about this program of study, please contact the Communication and Fine Arts Division.

Total Requirements: 66 credits

Program Requirements 42 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>Design Fundamentals I (2-D)</td>
<td>3</td>
</tr>
<tr>
<td>or GRC 107</td>
<td>Design Fundamentals</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 183</td>
<td>Electronic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>GRC 185</td>
<td>Computer Animation I</td>
<td>3</td>
</tr>
<tr>
<td>or GRC 188</td>
<td>Web Animation and Interactivity I</td>
<td>3</td>
</tr>
<tr>
<td>GRC 244B</td>
<td>Electronic Layout and Typography II</td>
<td>3</td>
</tr>
<tr>
<td>GRC 256</td>
<td>Computer Illustration II</td>
<td>3</td>
</tr>
<tr>
<td>GRC 283B</td>
<td>Electronic Imaging</td>
<td>3</td>
</tr>
<tr>
<td>GRC 294B</td>
<td>Professional Portfolio</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</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</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 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>
</tbody>
</table>

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 (PSY or SOC recommended)</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>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 Degree Requirements page.

GRAPHIC COMMUNICATIONS Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Communication and Fine Arts Division.

Total Requirements: 30 credits

Subject Requirements 21 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 107</td>
<td>Design Fundamentals I (2-D)</td>
<td>3</td>
</tr>
<tr>
<td>or GRC 107</td>
<td>Design Fundamentals</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 183</td>
<td>Electronic Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements 9 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Human Relations Requirement (PSY or SOC recommended)</td>
<td>3</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 Degree Requirements page.

GRAPHIC COMMUNICATIONS Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Completed</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>GRC 107</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>or GRC 107</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GRC 118</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 119</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 144B</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 156</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 175</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 183</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>GRC 244B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 256</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 283B</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GRC 294B</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Program Elective</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

GRAPHIC COMMUNICATIONS ASSOCIATE OF APPLIED SCIENCE

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.
HEALTH INFORMATION TECHNOLOGY PROGRAM

A new program in Health Information Technology combines a profession in health care with information technology. Health information technicians maintain, collect, and analyze data crucial to the delivery of quality patient care. The HIT program offers individuals the opportunity to pursue a business-related career that is an essential part of the health care industry. WNC offers the following certificates and degree:

- Associate of Applied Science Degree in Health Information Technology
- Certificate of Achievement in Medical Coding
- Certificate of Achievement in Medical Transcription
- Certificate of Achievement in Medical Unit Clerk

This program is also designed to prepare students for national certifications.

Salary: $24,000–$36,000 / year (middle range - Nevada)
Career Outlook: High demand through 2014
Good To Know: Specialties include diagnosis & procedure coding & tumor registars

WNC Academic Division: For more information about this program of study, please contact the Nursing and Allied Health Division.

HEALTH INFORMATION TECHNOLOGY
Associate of Applied Science

WNC’s Health Information Technology program will provide students with the technical component of providing a variety of health information services, as well as general education requirements.

General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200* Elements of Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HIT 100B Introduction to ICD-9-CM</td>
<td>2</td>
</tr>
<tr>
<td>HIT 101B Current Procedural Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIT 105B Health Care Dynamics</td>
<td>2</td>
</tr>
<tr>
<td>HIT 117B Medical Terminology I</td>
<td>1</td>
</tr>
<tr>
<td>HIT 118B Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HIT 170B Computers in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HIT 180B Introduction to Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>HIT 201B Classification Systems For Health Care Data</td>
<td>3</td>
</tr>
<tr>
<td>HIT 210B Coding Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

* BIOL 223 and BIOL 224 may be taken in lieu of BIOL 200.

WNC Academic Division: For more information about this program of study, please contact the Nursing and Allied Health Division.

HEALTH INFORMATION TECHNOLOGY
Medical Coding Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Nursing and Allied Health Division.

Total Requirements: 32 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200* Elements of Human Anatomy &amp; Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HIT 100B Introduction to ICD-9-CM</td>
<td>2</td>
</tr>
<tr>
<td>HIT 101B Current Procedural Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIT 105B Health Care Dynamics</td>
<td>2</td>
</tr>
<tr>
<td>HIT 117B Medical Terminology I</td>
<td>1</td>
</tr>
<tr>
<td>HIT 118B Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HIT 170B Computers in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HIT 180B Introduction to Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>HIT 201B Classification Systems For Health Care Data</td>
<td>3</td>
</tr>
<tr>
<td>HIT 210B Coding Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

* BIOL 223 and BIOL 224 may be taken in lieu of BIOL 200.

General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

* Human Relations requirement fulfilled by HIT 105B
* A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement Degree Requirements page.

Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Completed</th>
<th>Third Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>BIOL 200</td>
<td>ENG 101</td>
</tr>
<tr>
<td>HIT 100B</td>
<td>2</td>
<td>HIT 165B</td>
</tr>
<tr>
<td>HIT 101B</td>
<td>3</td>
<td>HIT 205B</td>
</tr>
<tr>
<td>HIT 105B</td>
<td>2</td>
<td>HIT 207B</td>
</tr>
<tr>
<td>HIT 117B</td>
<td>1</td>
<td>HIT 245B</td>
</tr>
<tr>
<td>HIT 118B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 170B</td>
<td>3</td>
<td>Fourth Semester</td>
</tr>
<tr>
<td>HIT 170B</td>
<td>3</td>
<td>English/Communications</td>
</tr>
<tr>
<td>HIT 170B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 180B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 201B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 205B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 206B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 208B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 210B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 245B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIT 245B</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Human Relations Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S./Nevada Constitutions</td>
<td>3</td>
</tr>
</tbody>
</table>

HEALTH INFORMATION TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Mission & 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 programs in occupational areas are expected to demonstrate that they

Know:
- the subject matter appropriate to the emphasis of the degree

Are able to:
- acquire skills and perform tasks necessary for employment or career enhancement
- present themselves effectively to a potential employer
- demonstrate effective communication skills appropriate to the chosen occupational field
- utilize appropriate resources to remain current in the chosen occupational field

Have developed:
- an appreciation of the importance of social, ethical, legal and diversity issues.

www.wnc.edu
HEALTH INFORMATION TECHNOLOGY
Medical Transcription Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Nursing and Allied Health Division.

Total Requirements: 30 credits

Subject Requirements 24 Credits
BIOL 200* Elements of Human Anatomy & Physiology 3
HIT 105B Health Care Dynamics 2
HIT 117B Medical Terminology I 1
HIT 118B Language of Medicine 3
HIT 120B Medical Transcription I 2
HIT 121B Medical Transcription II 3
HIT 165B Pathophysiology I 4
HIT 170B Computers in Health Care 3
HIT 180B Introduction to Health Information Management 3
* BIOL 223 and BIOL 224 may be taken in lieu of BIOL 200.

General Education Requirements 6 Credits
ENG 101 Composition I 3
* Human Relations requirement fulfilled by HIT 105B
Mathematics Requirement 3
* A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement Degree Requirements page.

* BIOL 223 and BIOL 224 may be taken in lieu of BIOL 200.

MEDICAL TRANSCRIPTION 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>BIOL 200</td>
<td>3</td>
<td>HIT 105B</td>
<td>2</td>
</tr>
<tr>
<td>ENG 101</td>
<td>3</td>
<td>HIT 120B</td>
<td>2</td>
</tr>
<tr>
<td>HIT 117B</td>
<td>1</td>
<td>HIT 121B</td>
<td>3</td>
</tr>
<tr>
<td>HIT 118B</td>
<td>3</td>
<td>HIT 165B</td>
<td>4</td>
</tr>
<tr>
<td>HIT 170B</td>
<td>3</td>
<td>HIT 180B</td>
<td>3</td>
</tr>
<tr>
<td>Math Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HEALTH INFORMATION TECHNOLOGY
Medical Unit Clerk Certificate of Achievement

WNC Academic Division: For more information about this program of study, please contact the Nursing and Allied Health Division.

Total Requirements: 31 credits

Subject Requirements 25 Credits
BIOL 200* Elements of Human Anatomy & Physiology 3
HIT 105B Health Care Dynamics 2
HIT 117B Medical Terminology I 1
HIT 118B Language of Medicine 3
HIT 165B Pathophysiology I 4
HIT 170B Computers in Health Care 3
HIT 180B Introduction to Health Information Management 3
HIT 206B Clinical Applications I 3
HIT 208B Clinical Applications II 3
* BIOL 223 and BIOL 224 may be taken in lieu of BIOL 200.

General Education Requirements 6 Credits
ENG 101 Composition I 3
* Human Relations requirement fulfilled by HIT 105B
Mathematics Requirement 3
* A list of all courses filling general education requirements for the Certificate of Achievement can be found on the Certificate of Achievement Degree Requirements page.

MEDICAL UNIT CLERK 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>BIOL 200</td>
<td>3</td>
<td>HIT 105B</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>3</td>
<td>HIT 105B</td>
<td>3</td>
</tr>
<tr>
<td>HIT 105B</td>
<td>2</td>
<td>HIT 120B</td>
<td>2</td>
</tr>
<tr>
<td>HIT 117B</td>
<td>1</td>
<td>HIT 121B</td>
<td>3</td>
</tr>
<tr>
<td>HIT 118B</td>
<td>1</td>
<td>HIT 165B</td>
<td>3</td>
</tr>
<tr>
<td>HIT 170B</td>
<td>3</td>
<td>HIT 180B</td>
<td>3</td>
</tr>
<tr>
<td>Math Course</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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: $30,100–$44,000 / year (middle range - 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: For more information about this program of study, please contact the Technology Division.

Total Requirements: 60 credits
Program Requirements 39 Credits
DFT 110B Blueprint Reading For Industry 3
or CONS 120B Blueprint Reading and Specification
MTT 105B Machine Shop I 3
MTT 110B Machine Shop II 3
MTT 230B Computer Numerical Control I 4
MTT 232B Computer Numerical Control II 4
MTT 250B Machine Shop III 3
MTT 260B Machine Shop IV 3
MATH Course* 3
* 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 21 Credits
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 Associate of Applied Science can be found on the Associate of Applied Science Degree Requirements page.

MACHINE TOOL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT
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:
• know the subject matter appropriate to the Certificate of Achievement in Machine Tool Technology,
• use skills and knowledge needed for acquiring employment,
• have the confidence needed for seeking employment.

MACHINE TOOL TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE
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 in this field,
• use available resources to remain current in the machine industry.
MANAGEMENT
Associate of Applied Science

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

Salary: $38,200–$49,600 / year (middle range - Nevada)
Career Outlook: Slower than average through 2014, although managers will be more likely to keep their jobs
Good To Know: Often requires hiring, training & supervising employees, solving problems & administrative duties
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 60 credits

<table>
<thead>
<tr>
<th>Business Core Requirements</th>
<th>24 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 135B Bookkeeping I</td>
<td>3</td>
</tr>
<tr>
<td>or ACC 136B Bookkeeping II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103 Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 273 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>COT 202 Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>or IS 201 Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 103 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IS 101 Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201 Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>15 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 212 Leadership &amp; Human Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 12 credits from the following:

| BUS 101 Introduction to Business | 3 |
| ECON 102 Principles of Microeconomics | 3 |
| ECON 103 Principles of Macroeconomics | 3 |
| FIN 101 Personal Finance | 3 |
| MGT 103 Small Business Management | 3 |
| MGT 235 Organizational Behavior | 3 |
| MGT 247B Industrial Management | 3 |
| MGT 283 Introduction to Human Resources Management | 3 |
| MKT 111 Introduction to Merchandising | 3 |
| MKT 127 Introduction to Retailing | 3 |
| MKT 210 Marketing Principles | 3 |
| MKT 262 Introduction to Advertising | 3 |

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>21 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirement (Recommended: BUS 107 &amp; BUS 108; Must include a writing course)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics Requirement (BUS 109B or higher level mathematics course)</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>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 Degree Requirements page.

Note: See also Retail Management.
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: $57,500–$102,200 / year (middle range - Nevada)  
Career Outlook: Need for math teachers & professors is expected to increase faster than average  
Good To Know: Often requires graduate degrees for career advancement  
WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

Total Requirements: 60 credits

<table>
<thead>
<tr>
<th>Emphasis Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 181 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 182 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 283 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 285 Differential Equations</td>
<td>3</td>
</tr>
</tbody>
</table>

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 (Must include a writing course): 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 Degree Requirements page.*

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: $35,900–$123,400 / year (middle range - Nevada)  
Career Outlook: Average growth through 2014  
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: For more information about this program of study, please contact the Communication and Fine Arts Division.

Total Requirements: 64 credits

<table>
<thead>
<tr>
<th>Program Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 121 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>or THTR 100 Introduction to Theater</td>
<td></td>
</tr>
<tr>
<td>MUS 203 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145 Voice-Lower Division</td>
<td>4</td>
</tr>
<tr>
<td>THTR 105 Introduction to Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 199 Play Structure &amp; Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 204 Theatre Technology I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 205 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

Select 4 credits from the following:

- DAN 132 Jazz Dance (beginning): 1
- DAN 135 Beginning Ballet: 1
- DAN 144 Beginning Tap Dancing: 1
- DAN 232 Jazz Dance (intermediate): 1
- DAN 244 Tap Dance (intermediate): 1

General Education Requirements: 30 Credits

- English/Communications Requirements: 6
- Humanities Requirement: 6
- Mathematics Requirement: 3
- Science Requirement: 6
- Social Sciences Requirement: 6
- U.S. and Nevada Constitution Requirements: 3

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

MUSICAL THEATRE Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 181 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 283 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 182 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 176 or MUS 276: 2-3</td>
<td></td>
</tr>
<tr>
<td>MUS 203</td>
<td>3</td>
</tr>
<tr>
<td>THTR 105</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 121 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>or THTR 100 Introduction to Theater</td>
<td></td>
</tr>
<tr>
<td>MUS 203 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145 Voice-Lower Division</td>
<td>4</td>
</tr>
<tr>
<td>THTR 105 Introduction to Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 199 Play Structure &amp; Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 204 Theatre Technology I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 205 Introduction to Acting II</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fifth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 176 or MUS 276: 2-3</td>
<td></td>
</tr>
<tr>
<td>MUS 203</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145</td>
<td>1</td>
</tr>
<tr>
<td>THTR 199</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sixth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 121 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>or THTR 100 Introduction to Theater</td>
<td></td>
</tr>
<tr>
<td>MUS 203 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145 Voice-Lower Division</td>
<td>4</td>
</tr>
<tr>
<td>THTR 105 Introduction to Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 199 Play Structure &amp; Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 204 Theatre Technology I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 205 Introduction to Acting II</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seventh Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 176 or MUS 276: 2-3</td>
<td></td>
</tr>
<tr>
<td>MUS 203</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145</td>
<td>1</td>
</tr>
<tr>
<td>THTR 199</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eighth Semester</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 121 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>or THTR 100 Introduction to Theater</td>
<td></td>
</tr>
<tr>
<td>MUS 203 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 145 Voice-Lower Division</td>
<td>4</td>
</tr>
<tr>
<td>THTR 105 Introduction to Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 199 Play Structure &amp; Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 204 Theatre Technology I</td>
<td>3</td>
</tr>
<tr>
<td>THTR 205 Introduction to Acting II</td>
<td>3</td>
</tr>
</tbody>
</table>
NURSING PROGRAM
Associate of Applied Science

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. Integration of knowledge from the bio/psycho/social sciences, humanities, and nursing is intended to prepare graduates to pass the national licensure examination 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 National Council Licensing Examination for Registered Nurses. Students completing the first year of the nursing program and NURS 168, NURS 169 and NURS 170 are eligible to sit for the National Council Licensing Examination for Practical Nurses. The associate degree nursing program is approved by the Nevada State Board of Nursing and is accredited by the National League for Nursing Accrediting Commission. The address of the NLNAC is 61 Broadway Street, 33rd floor, New York, NY 10016 and the telephone number is 800-669-9656. 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 contact the Nevada State Board of Nursing should there be a concern regarding eligibility for licensure. A limited number of qualified students are admitted as first semester students utilizing the selection criteria outlined below. The nursing program requires that pre- and corequisite courses be completed with a grade of “C” or better. Students admitted to the program are required to attend mandatory orientation sessions scheduled for the late spring or early summer and prior to the start of classes.

SELECTIVE ADMISSION REQUIREMENTS
Apply for admission: Apply for admission to Western Nevada College and the WNC Nursing Program. Applications will be available after January 2. The last date for submission of applications is April 1. Nursing program applications are available on the WNC Nursing & Allied Health web site.

Transcripts: Submit a high school transcript showing graduation date or documentation of successful completion of the General Education Development exam.

Chemistry: Show evidence of completion of high school chemistry from a regionally accredited school within the last three years or completion of CHEM 121 within the last ten years by the date of application submission.

Prerequisites: Complete all prerequisite courses prior to admission into the nursing program. (Note: The statute of limitations for all college science courses is ten years from date of application.)

Test of Essential Academic Skills: Pass the Test of Essential Academic Skills with a minimum score of 40 percent for each of the four sub-tests (not required for LPN's applying to the second year). The test may be taken only once each year.

Application and Supporting Documents: Submit completed application with supporting documents and required transcripts, as appropriate, to Admissions and Records in the time frame delineated on the nursing program application.

OTHER IMPORTANT INFORMATION
Students who do not have or who are ineligible for a Nevada LPN license who have completed nursing courses more than two years ago but no more than five years ago at the time of application to the nursing program are required to demonstrate currency of nursing knowledge by passing competency examinations for each course previously completed. A score of 75 percent or more is required for each examination. Nursing courses taken more than five years prior to the date of application will not be accepted.

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 and community settings, including clinics, day care centers,

A grade of C (75 percent) or better is required in all nursing courses.

Students who have been expelled from a nursing program, or who are no longer eligible for admission to that program, are not eligible for admission to WNC’s nursing program.

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

A student who matriculated into the nursing program may be readmitted one time following a withdrawal/failure. A written request for an exception to the policy for such reasons as medical and military will be considered by Admissions and Records.

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

1. An acceptable physical examination, and required immunizations,

2. CPR Certification (card required) through the American Heart Association (Health Care Provider course) or through the American Red Cross (Professional Rescuer course).

3. Major medical health insurance (card required).

It is anticipated background checks will be required by hospitals and long term health care organizations starting in the fall of 2008.
NURSING
Associate of Applied Science

Salary: $52,300–$70,400 / year (middle range - 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: For more information about this program of study, please contact the Nursing and Allied Health Division.

Total Requirements: 72 credits
Prerequisite Courses* 21 Credits
BIOL 223 Human Anatomy and Physiology I 4
BIOL 224 Human Anatomy and Physiology II 4
BIOL 251 General Microbiology 4
ENG 101 Composition I 3
MATH 120 Fundamentals of College Mathematics 3
or MATH 126 Precalculus I 4
PSY 101 General Psychology 3
or SOC 101 Principles of Sociology
* Please refer to Selective Admission Requirements for Chemistry and additional requirements

First Year: Fall Semester Courses
14 Credits
ENG 102* Composition II 3
NURS 136 Foundations of Nursing Theory 3
NURS 137 Foundations of Nursing Laboratory 1
NURS 138 Foundations of Nursing Clinical 2
NURS 141 Foundations of Pharmacology in Nursing 2
NURS 200 Health Assessment Theory 2
NURS 201 Health Assessment Laboratory 1
* Indicates corequisite. Corequisite courses must be completed by the end of the fourth semester of the nursing program. Corequisite courses are not required for the Certificate of Achievement.

First Year: Spring Semester Courses
14 Credits
NURS 163 Maternal Child Health I Theory 3
NURS 164 Maternal Child Health I Clinical 1
NURS 165 Nursing Across the Lifespan Laboratory 1
NURS 166 Health/Illness Across Lifespan Theory 4
NURS 167 Health/Illness Across Lifespan Clinical 2
PSY 101 General Psychology 3
or SOC 101 Principles of Sociology
* Indicates corequisite. Corequisite courses must be completed by the end of the fourth semester of the nursing program. Corequisite courses are not required for the Certificate of Achievement.

Second Year: Spring Semester** 10 Credits
NURS 236 Mental Health and Illness Theory 1
NURS 237 Mental Health and Illness Laboratory 1
NURS 238 Mental Health and Illness Clinical 1
NURS 276 Advanced Medical Surgical Nursing II Theory 3
NURS 277 Advanced Medical Surgical Nursing II Clinic 2
NURS 284 Role of the ADN Manager of Care 2
Note: ** The sequence of some courses for the second year fall and spring semester courses may be altered.

Second Year: Fall Semester Courses
13 Credits
NURS 265 Alterations Maternal/Child Health Theory 2
NURS 266 Alterations in Maternal/Child Health Laboratory 1
NURS 267 Alterations in Maternal Health Clinical 1
NURS 268 Alterations in Child Health Clinical 1
NURS 270 Advanced Clinical Nursing I Theory 3
NURS 271 Advanced Clinical Nursing I Clinical 2
U.S./Nevada Constitutions Course
(PSC 103, HIST 111, or CH 203 recommended)* 3
* See the Associate of Applied Science page for more information on courses fulfilling the general education requirement.

NURSING ADMISSION/SELECTION CRITERIA

<table>
<thead>
<tr>
<th>Science GPA</th>
<th>2.0-2.49</th>
<th>2.5-3.0</th>
<th>3.1-3.49</th>
<th>3.5-4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL &amp; CHEM pre- and corequisite courses</td>
<td>(2)</td>
<td>(4)</td>
<td>(6)</td>
<td>(8)</td>
</tr>
</tbody>
</table>

GPA

<table>
<thead>
<tr>
<th>Science GPA</th>
<th>2.0-2.49</th>
<th>2.5-3.0</th>
<th>3.1-3.49</th>
<th>3.5-4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>(pre- and corequisite (1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td></td>
</tr>
</tbody>
</table>

Test of Essential Academic Skills (TEAS)

<table>
<thead>
<tr>
<th>Score Range</th>
<th>40-59</th>
<th>60-69</th>
<th>70-79</th>
<th>80-89</th>
<th>90-99</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A minimum cut score of 40 percent is required for each subtest. Not required for LPNs or students seeking transfer with grades of C or better in nursing; points will not be awarded)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completion of corequisite credits</td>
<td>3-6</td>
<td>7-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0)</td>
<td>(1)</td>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum Possible Points: 18

Admission to the nursing program will be based on special admission procedures and the number of points an applicant receives. Eligible students will be numerically ranked according to total points. In the event of applicants having an equal number of points, lots will be drawn to decide eligibility.

Admission will be offered to the applicants on the list with the highest priority points. Applicants not selected will not be carried forward and must reapply for consideration.
OPTIONAL PRACTICAL NURSING PREPARATION
Certificate of Achievement
If the student successfully completes all prerequisite courses and first year nursing
courses of the program, including NURS 168, NURS 169 and NURS 170 (Transitions
to Practical Nursing Theory, Transitions to Practical Nursing Clinical and
Transitions to Practical Nursing - Intravenous Therapy) the student may apply for
a Certificate of Achievement and is eligible to take the National Council Licensing
Examination - Practical Nurse (NCLEX-PN).

Note: NURS 168, 169 and 170 are not required for progression to the second
year.

CERTIFICATE REQUIREMENTS: 47 credits
Spring or Summer Course
NURS 168 Transitions to Practical Nursing Theory - 1 Credit
NURS 169 Transitions to Practical Nursing Clinical - 2 Credits
NURS 170 Transitions to Practical Nursing - Intravenous Therapy - 1 Credit

Licensed Practical Nurse to ADN
Practical nurses are required to successfully challenge the first year of the nursing
program at Western Nevada College. The challenge process is unique to the nurs-
ing program and varies from the college's general challenge policy. The process
consists of the three steps outlined:

Step 1
• Complete all prerequisite courses with a grade of C or better.**
• Complete NURS 200 and NURS 201 or equivalent course/s with a grade of C
  or better.**
• Hold, or be eligible to hold, a practical nursing license in the State of Nevada.
  Candidates with a restricted LPN license will be evaluated on an individual basis.

** College science courses have a ten year statute of limitations; NURS 200/201
or equivalent must be repeated if the completed course is older than two years at
the time of application.

Step 2
Pass the following written National League of Nursing Challenge Examinations
with a score of 75 percent or better:
• Foundations of Nursing
• Nursing Care During Childbearing and Nursing Care of the Child

The cost of each challenge examination is $70. The scores of students who pass
the challenge examinations will remain on file for one year from the date of the
passage.

Step 3
Demonstrate ability to safely perform first and second semester nursing skills in
the nursing laboratory. A list of the skills to be demonstrated for each semester
is available in the Office of Nursing & Allied Health. Skills will be evaluated on a
pass/fail (P/F) basis.

Cost of each semester skill challenge examination is $100.

Candidates who successfully complete the above three steps are eligible to ap-
ply for admission into the nursing program by submitting an application and other
required documents to Admission and Records by the required date. Information
regarding the admission process may be obtained by accessing the Nursing and
Allied Health web site or by contacting the Office of Nursing and Allied Health lo-
cated in room 110 of the Cedar Building. The telephone number is 775-445-3294.

Students Requesting Transfer & Re-admission
A limited number of qualified transfer and readmission students who do not have
or who are not eligible for a Nevada LPN license are admitted into the nursing
program on a space available basis.

Students who have completed nursing courses more than two years ago but
no more than five years ago at the time of application to the nursing program must
demonstrate currency of knowledge by passing competency examinations for each
course previously completed. A score of 75 percent or more is required for each
exam. Nursing courses taken more than five years prior to application will not be
accepted.

A student who matriculated into the nursing program may be readmitted one
time following a withdrawal/failure. A written request for an exception to the policy
for such reasons as medical and military will be considered by Admissions and
Records.

EMERGENCY MEDICAL SERVICES
WNC's Emergency Medical Services courses are offered through
the Division of Nursing & Allied Health. They include:
- EMS 100B CPR (Health Care Provider through the American
  Heart Association)
- EMS 108B (EMT Basic)
- EMS 112B (EMT Enhanced/Intermediate)
- EMT Refresher (not every semester)
- EMT Instructor (not every semester)

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.
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.
Successful completion of these courses provides eligibility for
students to take the National Registry Examination for EMT-Basic
and EMT Enhanced (Intermediate).

Call ......................................................... 775-445-3296
OFFICE TECHNOLOGY
Associate of Applied Science

The Office Technology emphasis is designed for those seeking specific career skills in office environments. Students choose one of two specializations to customize their program: Administrative Assistant or Desktop Publishing. The Associate of Applied Science degree in Office Technology provides office technology courses for traditional college students and transitional employees. 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 as a result of common course numbering.

Salary: $23,700–$44,600 / year (middle range - Nevada)
Career Outlook: Variable; rapid growth in temporary worker agencies
Good To Know: Good communication skills critical; use computers heavily; may supervise office staff
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 60 credits
Program Requirements: 36 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 135B*</td>
<td>3</td>
</tr>
<tr>
<td>ACC 136B</td>
<td>3</td>
</tr>
<tr>
<td>CIT 161B</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
</tr>
<tr>
<td>IS 101</td>
<td>3</td>
</tr>
<tr>
<td>IS 201</td>
<td>3</td>
</tr>
<tr>
<td>CIT 204B or CIT 206B</td>
<td>3</td>
</tr>
<tr>
<td>MGT 201, MGT 212 or MGT 283</td>
<td>3</td>
</tr>
<tr>
<td>CIT 161B or ACC 201</td>
<td>3</td>
</tr>
<tr>
<td>BUS 108</td>
<td>3</td>
</tr>
<tr>
<td>COT 204B or COT 206B</td>
<td>3</td>
</tr>
<tr>
<td>Science Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 201B</td>
<td>1-3</td>
</tr>
<tr>
<td>CIT 202B</td>
<td>1-3</td>
</tr>
<tr>
<td>CIT 203B</td>
<td>1-3</td>
</tr>
<tr>
<td>CIT 204B</td>
<td>1-3</td>
</tr>
<tr>
<td>CIT 206B</td>
<td>1</td>
</tr>
</tbody>
</table>

Specialization Requirements

Choose 12 credits from one of the following two specializations:

**ADMINISTRATIVE ASSISTANT**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 220</td>
<td>3</td>
</tr>
<tr>
<td>CIT 205B</td>
<td>1</td>
</tr>
<tr>
<td>COT 206B</td>
<td>1</td>
</tr>
<tr>
<td>COT 140B</td>
<td>1</td>
</tr>
<tr>
<td>COT 216</td>
<td>3</td>
</tr>
<tr>
<td>COT 222</td>
<td>3</td>
</tr>
</tbody>
</table>

**DESKTOP PUBLISHING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 151</td>
<td>3</td>
</tr>
<tr>
<td>COT 222</td>
<td>3</td>
</tr>
<tr>
<td>GRC 144B</td>
<td>3</td>
</tr>
<tr>
<td>or COT 217B</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements: 24 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications</td>
<td>6</td>
</tr>
<tr>
<td>Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Science</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 Degree Requirements page.

OFFICE TECHNOLOGY Suggested Course Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>First</th>
<th>Second</th>
<th>Third</th>
<th>Fourth</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 135B</td>
<td>3</td>
<td>ACC 136B or ACC 201</td>
<td>3</td>
<td>ACC 136B or ACC 201</td>
</tr>
<tr>
<td>BUS 101</td>
<td>3</td>
<td>BUS 107</td>
<td>3</td>
<td>CIT 161B</td>
</tr>
<tr>
<td>BU1 07</td>
<td>3</td>
<td>IS 101</td>
<td>3</td>
<td>Science Course</td>
</tr>
<tr>
<td>IS 101</td>
<td>3</td>
<td>CIT 204 or COT 206B</td>
<td>3</td>
<td>Specialization Courses</td>
</tr>
<tr>
<td>Science Course</td>
<td>3</td>
<td>Science Course</td>
<td>3</td>
<td>Specialization Courses</td>
</tr>
</tbody>
</table>

OFFICE TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE

Mission & Outcomes

Mission: The purpose of the Associate of Applied Science degree in 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 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, and
- standards of social, ethical, legal, accessibility, and diversity issues of their work environment.
PARALEGAL STUDIES
Associate of Applied Science

The Paralegal Studies program is designed to train students in the legal system, its functions, and the role of the paralegal in the practice of law. Paralegals are members of a legal team who work under the supervision of attorneys. The professional services provided by paralegals have made them a respected addition to the staffs of law firms, corporations, banks, insurance companies and government agencies.

Salary: $35,600–$47,100 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Good research, organizational & analytical skills required

WNC Academic Division: For more information about this program of study, please contact the Social Science, Education, Humanities & Public Service Division.

Total Requirements: 60 credits
Program Requirements 39 Credits
CRJ 222 Criminal Law and Procedure 3
LAW 101 Fundamentals of Law I 3
LAW 203 Real Property 3
LAW 204 Torts 3
LAW 205 Contracts 3
LAW 206B Case Analysis 1
LAW 231 Civil Procedure 3
LAW 259 Legal Writing 3
LAW 261 Legal Research I 3
LAW 262 Legal Research II 3
LAW 263 Ethics 2

Choose 9 credits from the following:
ACC 135B Bookkeeping I 3
BUS 273 Business Law I 3
COT 202 Introduction to Computer Applications 3
CRJ 164 Principles of Investigation 3
CRJ 225 Criminal Evidence 3
LAW 198B Special Topics in Law 1-3
LAW 251 Bankruptcy 3
LAW 252 Family Law 3
LAW 255 Probate Procedure 3
LAW 295 Supervised Field Experience 3
Any LAW Course 1–9

General Education Requirements 21 Credits
ENG 101 Composition I 3
ENG 102 Composition II 3
Human Relations Requirement 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 Degree Requirements page.

PARALEGAL STUDIES ASSOCIATE OF APPLIED SCIENCE
Mission 

Mission: The Associate of Applied Science degree in Paralegal Studies will provide the academic knowledge and skill training necessary for employment in a variety of legal settings, including: law firms, corporations, banks, insurance companies and government agencies. The degree will meet the educational requirements to allow students to take a nationally recognized certifying examination.

Student Learning Outcomes: Students who complete the Associate of Applied Science degree in Paralegal Studies are expected to demonstrate that they
1. know procedural and substantive law appropriate for a Paralegal.
2. are able to do the following:
   • analyze case law, statutes and regulations;
   • demonstrate effective oral and written communication skills;
   • demonstrate ability to draft legal documents;
   • conduct basic research of current and historical legal issues through use of the law library and computerized legal databases;
   • locate newly decided cases and recent trends in the law.
3. have developed an appreciation of the following:
   • the role of legal assistants in the legal system;
   • the importance of ethics in the legal profession;
   • the responsibility of members of the legal profession to society.
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: $61,600–$109,500 / year (middle range - Nevada)
Career Outlook: Slower than average growth through 2014
Good To Know: Graduate degrees required for career advancement and higher salaries
WNC Academic Division: For more information about this program of study, please contact the Science, Mathematics & Engineering Division.

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

PHYSICS 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>CHEM 121</td>
<td>4</td>
<td>General Education Courses 6</td>
<td></td>
</tr>
<tr>
<td>CHEM 122</td>
<td>6</td>
<td>MATH 283</td>
<td>4</td>
</tr>
<tr>
<td>MATH 181</td>
<td>4</td>
<td>PHYS 182</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 180</td>
<td>3</td>
<td>PHYS 182L</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 180L</td>
<td>1</td>
<td>Fourth Semester General Education Courses 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 285</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHYS 293</td>
<td>1–3</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>CHEM 122</td>
<td>4</td>
<td>General Education Courses 9</td>
<td></td>
</tr>
<tr>
<td>MATH 182</td>
<td>3</td>
<td>PHYS 182</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 181</td>
<td>3</td>
<td>PHYS 182L</td>
<td>1</td>
</tr>
</tbody>
</table>

PHYSICS ASSOCIATE OF SCIENCE Mission & Outcomes

Mission: The mission of the Associate of Science degree in Physics is to provide the academic knowledge and skills to meet higher educational goals. The mission as stated for this degree is to place students wishing to pursue studies in the field of physics, either as a university major or as preparation for a teaching career.

Student Learning Outcomes: pertinent to this degree are as follows:
1. know the subject matter
2. are able to do the following:
   • write papers which demonstrate research;
   • apply mathematical and analytical problem-solving skills;
   • succeed at their transfer institutions;
3. understand scientific methods and the role of science and technology in society
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: $25,900–$67,900 / year (middle range - Nevada agents)
Career Outlook: Average growth through 2014
Good To Know: About 59 percent of real estate agents are self-employed

WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 60 credits
Subject Requirements 24 Credits
ACC 135B Bookkeeping I 3
& ACC 136B Bookkeeping II 3
or ACC 201 Financial Accounting
& ACC 202 Managerial Accounting
BUS 101 Introduction to Business 3
or MGT 103 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
COT 202 Introduction to Computer Applications 3
or IS 201 Computer Applications
ECON 102 Principles of Microeconomics 3
or ECON 103 Principles of Macroeconomics
IS 101 Introduction to Information Systems 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 & BUS 108; must include a writing course) 6
Mathematics Requirement (RE 102B, BUS 109B or higher level mathematics course) 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 Degree Requirements page.

Note: Real Property Managers need 24 hours of approved continuing education in addition to licensing and state exam.

REAL ESTATE Suggested Course Sequence

First Semester Completed
ACC 135B or ACC 201 3
BUS 101 or MGT 103 3
ECON 102 or ECON 103 3
IS 101 3
RE 101 3

Second Semester Completed
ACC 136B or ACC 202 3
BUS 273 3
cot 202 or IS 201 3
MGT 201, MGT 212 or MGT 283 3
RE 103 3

Third Semester Completed
BUS 107 3
RE 104 3
RE 206 3
RE 102B or BUS 109B 3

Fourth Semester Completed
BUS 108 3
RE 199 or RE 202 3
RE 201B 3
Science Course 3
U.S./Nevada Constitution 3

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: For more information about these programs of study, please contact the Business Division.

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 201B 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 required 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: $31,700–$101,600 / year (middle range - Nevada)
Career Outlook: Slower than average growth through 2014
Good To Know: Career incorporates buying, merchandising, promotion, management, operations, finance & computer applications
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 30 credits
Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<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>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>COT 202</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>or 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>3</td>
</tr>
<tr>
<td>or MGT 283</td>
<td>Introduction to Human Resources Management</td>
<td>3</td>
</tr>
<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>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/Communications Requirements</td>
<td>6</td>
</tr>
<tr>
<td>(Recommended: BUS 107, BUS 108; must include a writing course)</td>
<td></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 Degree Requirements page.
SURGICAL TECHNOLOGY
Certificate of Achievement

The Surgical Technology Certificate of Achievement program is intended for the student seeking a career as a surgical technologist. It is designed to be completed over two consecutive academic semesters after admission into the program. The program is accredited by the Commission on Accreditation of Allied Health Education Programs. Upon completion of the program, students will be eligible to take the National Certification Examination for Surgical Technology. Classroom and laboratory experiences include instruction and practice in operating room techniques, infection prevention and control, and basic care of surgical patients in the operating room. Clinical learning includes supervised, hands-on surgical experiences in scrubbing for a variety of surgical procedures.

Selective Admission Requirements
- Apply for admission to WNC and the Surgical Technology program.
- Submit a high school transcript showing graduation date or documentation of successful completion of the General Education Development (GED) exam.
- Complete all prerequisite courses prior to admission into the program. Note: science courses must be completed within the last 10 years.
- Submit completed application with supporting documents and required transcripts, as appropriate, to Admissions and Records in the time frame delineated on the Surgical Technology program application.

A limited number of qualified students are admitted into the program utilizing specified selection criteria. See the WNC web site at www.wnc.edu.

A point system is utilized to make decisions regarding admission of applicants. All applicants will be evaluated in two areas following the criteria outlined on this page. Admission will be offered to the applicants on the list with the highest points. Applicants not selected must reapply for consideration.

Questions regarding the admission process should be directed to Admissions and Records, 775-445-3277.

Additional Information
- Learning activities are scheduled on and off campus during days, evenings and weekends including but not limited to Carson City, Reno, Lake Tahoe and Fallon. Students are required to provide their own transportation.
- Clinical experiences take place in acute care hospital and same day surgery centers.
- Documentation and currency of the following is required after acceptance into the Surgical Technology program and prior to the start of classes:
  1. Submission of an acceptable physical examination and required immunizations and tests;
  2. Health Care Provider/BLS CPR certification from the American Heart Association or the Red Cross (card required);
  3. Major medical health insurance (card required);
  4. A minimum grade of C is required in all prerequisite and corequisite courses.
  5. A minimum grade of C is required in all SRGT courses.
  6. It is anticipated that background checks will be required by hospitals and surgery centers starting in the fall of 2008.

Employment opportunities for the graduate of the Surgical Technology program are excellent. Positions are available in hospitals and ambulatory surgical centers in the Reno, Carson City, Fallon and Lake Tahoe areas.
SURGICAL TECHNOLOGY
Certificate of Achievement

Salary: $36,700–$47,600 / year (middle range - Nevada)
Career Outlook: Faster than average growth through 2014
Good To Know: Technologists advance by specializing in a particular area of surgery

WNC Academic Division: For more information about this program of study, please contact the Nursing and Allied Health Division.

Total Requirements: 39 – 43 credits

Prerequisite Courses 10 Credits
BIOL 223 Human Anatomy and Physiology I 4
or BIOL 200 Elements of Human Anatomy & Physiology
& BIOL 204 Elements of Human Anatomy & Physiology Lab
ENG 101 Composition I 3
MATH 120 Fundamentals of College Mathematics 3
or MATH 126 Precalculus I

Corequisite Courses Requirements 3–7 Credits
BIOL 224 Human Anatomy and Physiology II 0–4
(Only if BIOL 224 taken as a prerequisite)

Human Relations Requirement
Choose one course from the following:
ANTH 101 Introduction to Cultural Anthropology 3
BUS 110B Human Relations For Employment 3
PSY 101 General Psychology 3
PSY 102 Psychology of Personal/Social Adjustment 3
PSY 280 Understanding Men and Women 3
SOC 101 Principles of Sociology 3
SOC 102 Contemporary Social Issues 3

Subject Requirements 26 Credits
SRGT 100B Foundations of Surgical Technology 2.5
SRGT 102B Sterilization and Disinfection 2.5
SRGT 104B Operating Room Techniques 4
SRGT 110B Preparation of the Surgical Patient 2.5
SRGT 111B Surgical Procedures 5.5
SRGT 132B Surgery Clinical Practice 9

Note: BIOL 223 and 224 must be completed at the same institution if taken outside of Nevada System of Higher Education institutions.
WEB TECHNOLOGY
Associate of Applied Science

The Web Technology emphasis is designed for students seeking specific career skills in web environments. Students choose one of four specializations to customize their program: Web Administration, Web Design, Web Programming, or Transfer Option.

Salary: $44,500–$72,300 / year (middle range - Nevada)
Career Outlook: High demand through 2014
Good To Know: About 24 percent of webmasters & data communications analysts are self-employed
WNC Academic Division: For more information about this program of study, please contact the Business Division.

Total Requirements: 60 credits

Degree Core Requirements 36 Credits

CIT 129 Introduction to Programming 3
CIT 151 Beginning Web Development 3
or GRC 175 Web Design and Publishing I
CIT 152 Web Script Language Programming 3
CIT 161B Essentials of Information Security 3
CIT 260 Systems Analysis and Design I 3
IS 101 Introduction to Information Systems 3
IS 201 Computer Applications 3
CIT/COT/IS Course 3

Specialization Requirements
Choose 12 credits from one of the following four specializations:

WEB ADMINISTRATION
CIT 220B E-commerce on the Web 3
CIT 255 Web Server Administration I 3
CIT 256 Web Server Administration II 3
CIT 290 Internship in Computer Information Technology 3-6
or CIT 295B Specialty Related Capstone Project 3

WEB DESIGN
CIT 157B Graphics For the Web 3
CIT 251 Advanced Web Development 3
CIT 290 Internship in Computer Information Technology 3-6
or CIT 295B Specialty Related Capstone Project 3
GRC 188 Web Animation and Interactivity I 3

WEB PROGRAMMING
CIT 180 Database Concepts and SQL 3
CIT 251 Advanced Web Development 3
CIT 252 Web Database Development 3–6
CIT 290 Internship in Computer Information Technology 3
or CIT 295B Specialty Related Capstone Project

CUSTOMIZED OPTION
Students may take 12 credits in this option, depending on the requirements of the four-year transfer institution. Prior department approval required. More than 12 credits may be required.

General Education Requirements 24 Credits

English/Communications Requirement
(Recommended: BUS 107; must include a writing course) 6
Human Relations Requirement
(Recommended: MGT 201, MGT 212, MGT 283) 3
Humanities/Social Science Requirements 3
Mathematics Requirement (Recommended: BUS 109B) 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 Degree Requirements page.

WEB TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE
Mission & Outcomes

Mission: The purpose of the Web Technology degree is to offer an Associate of Applied Science degree to prepare students with the necessary skills for entry-level employment in Web-based occupations. In addition, many of the courses can transfer to baccalaureate programs in Web technology and related fields.

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 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, and
• demonstrate effective communication and computation skills appropriate to the chosen occupational field.

Appreciate and value:
• appropriate and effective presentation of themselves to potential employers, and
• standards of social, ethical, legal, accessibility, and diversity issues of their work environment.
### WEB ADMINISTRATION Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester Completed</th>
<th>Third Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 107 3</td>
<td>CIT 201B &amp; 202B &amp; 203B 3</td>
</tr>
<tr>
<td>CIT 129 3</td>
<td>CIT 220B 3</td>
</tr>
<tr>
<td>CIT 151 or GRC 175 3</td>
<td>CIT 255 3</td>
</tr>
<tr>
<td>IS 101 3</td>
<td>Humanities/Social Science Course 3</td>
</tr>
<tr>
<td>MGT 201, MGT 212 or MGT 283 3</td>
<td>U.S./Nevada Constitutions 3</td>
</tr>
<tr>
<td>Second Semester Completed</td>
<td>Fourth Semester Completed</td>
</tr>
<tr>
<td>BUS 108 3</td>
<td>BUS 109B 3</td>
</tr>
<tr>
<td>CIT 152 3</td>
<td>CIT 256 3</td>
</tr>
<tr>
<td>CIT 161B 3</td>
<td>CIT 290 or CIT 295B 3</td>
</tr>
<tr>
<td>CIT 260 3</td>
<td>Degree Elective 3</td>
</tr>
<tr>
<td>Science Course 3</td>
<td>Science Course 3</td>
</tr>
</tbody>
</table>

### WEB DESIGN Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester Completed</th>
<th>Third Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 107 3</td>
<td>CIT 157B 3</td>
</tr>
<tr>
<td>CIT 129 3</td>
<td>CIT 251 3</td>
</tr>
<tr>
<td>CIT 151 or GRC 175 3</td>
<td>GRC 188 3</td>
</tr>
<tr>
<td>IS 101 3</td>
<td>Humanities/Social Science Course 3</td>
</tr>
<tr>
<td>MGT 201, MGT 212 or MGT 283 3</td>
<td>U.S./Nevada Constitutions 3</td>
</tr>
<tr>
<td>Second Semester Completed</td>
<td>Fourth Semester Completed</td>
</tr>
<tr>
<td>BUS 108 3</td>
<td>BUS 109B 3</td>
</tr>
<tr>
<td>CIT 152 3</td>
<td>CIT 201B &amp; 202B &amp; 203B (1 credit each) 3</td>
</tr>
<tr>
<td>CIT 161B 3</td>
<td>CIT 290 or CIT 295B 3</td>
</tr>
<tr>
<td>CIT 260 3</td>
<td>Degree Elective 3</td>
</tr>
<tr>
<td>Science Course 3</td>
<td>Science Course 3</td>
</tr>
</tbody>
</table>

### WEB PROGRAMMING Suggested Course Sequence

<table>
<thead>
<tr>
<th>First Semester Completed</th>
<th>Third Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 107 3</td>
<td>CIT 180 3</td>
</tr>
<tr>
<td>CIT 129 3</td>
<td>CIT 201B &amp; 202B &amp; 203B (1 credit each) 3</td>
</tr>
<tr>
<td>CIT 151 or GRC 175 3</td>
<td>CIT 251 3</td>
</tr>
<tr>
<td>IS 101 3</td>
<td>Humanities/Social Science Course 3</td>
</tr>
<tr>
<td>MGT 201, MGT 212 or MGT 283 3</td>
<td>U.S./Nevada Constitutions 3</td>
</tr>
<tr>
<td>Second Semester Completed</td>
<td>Fourth Semester Completed</td>
</tr>
<tr>
<td>BUS 108 3</td>
<td>BUS 109B 3</td>
</tr>
<tr>
<td>CIT 152 3</td>
<td>CIT 252 3</td>
</tr>
<tr>
<td>CIT 161B 3</td>
<td>CIT 290 or CIT 295B 3</td>
</tr>
<tr>
<td>CIT 260 3</td>
<td>Degree Electives 3</td>
</tr>
<tr>
<td>Science Course 3</td>
<td>Science Course 3</td>
</tr>
</tbody>
</table>
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:** $20,500–$50,900 / year (middle range - Nevada)
**Career Outlook:** Average or slightly slower growth through 2014
**Good To Know:** Certification required for many jobs

**WNC Academic Division:** For more information about this program of study, please contact the Technology Division.

---

**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>DFT 100</td>
<td>Basic Drafting Principles</td>
<td>3</td>
</tr>
<tr>
<td>WELD 211</td>
<td>Welding I</td>
<td>3</td>
</tr>
<tr>
<td>WELD 212B</td>
<td>Welding I Practice</td>
<td>2</td>
</tr>
<tr>
<td>WELD 221</td>
<td>Welding II</td>
<td>3</td>
</tr>
<tr>
<td>WELD 222B</td>
<td>Welding II Practice</td>
<td>2</td>
</tr>
<tr>
<td>WELD 231B</td>
<td>Welding III</td>
<td>3</td>
</tr>
<tr>
<td>WELD 232B</td>
<td>Welding III Practice</td>
<td>2</td>
</tr>
<tr>
<td>WELD 241B</td>
<td>Welding IV</td>
<td>3</td>
</tr>
<tr>
<td>WELD 242B</td>
<td>Welding IV Practice</td>
<td>2</td>
</tr>
<tr>
<td>WELD 250B</td>
<td>Welding Certification Preparation</td>
<td>1–12</td>
</tr>
</tbody>
</table>

**Program Electives**

Choose 4-11 credits from the following:

- ET 131B Electronics I 3
- 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**

English/Communications Requirement (Recommended: BUS 107 & BUS 108; must include a writing course) 6
Human Relations Requirement (Recommended: BUS 110B) 3
Mathematics Requirement 3
Mathematics/Science 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 Degree Requirements page.

---

**WELDING TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE**

**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 Drafting 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, and
  - utilize appropriate resources to remain current in the welding field.

---

**WELDING TECHNOLOGY Certificate of Achievement**

**WNC Academic Division:** For more information about this program of study, please contact the Technology Division.

**Total Requirements:** 30 credits

**Subject Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 211</td>
<td>Welding I</td>
<td>3</td>
</tr>
<tr>
<td>WELD 212B</td>
<td>Welding I Practice</td>
<td>2</td>
</tr>
<tr>
<td>WELD 221</td>
<td>Welding II</td>
<td>3</td>
</tr>
<tr>
<td>WELD 222B</td>
<td>Welding II Practice</td>
<td>2</td>
</tr>
<tr>
<td>WELD 250B</td>
<td>Welding Certification Preparation</td>
<td>6</td>
</tr>
<tr>
<td>Metals Elective</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**General Education Requirements**

English/Communications Requirement (Recommended: Must include a writing course) 6
Human Relations Requirement (Recommended: BUS 110B) 3
Mathematics Requirement 3

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

---

**WELDING TECHNOLOGY Suggested Course Sequence**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>BUS 107</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematics Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTT 105B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 211</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 250B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>WELD 212B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>WELD 290B</td>
<td>2</td>
</tr>
<tr>
<td>Second</td>
<td>BUS 108</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities/Social Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 221</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 222B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>WELD 242B</td>
<td>2</td>
</tr>
<tr>
<td>Fourth</td>
<td>BUS 108</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>U.S./Nevada Constitutions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 241B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 242B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>WELD 250B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WELD 290B</td>
<td>2</td>
</tr>
</tbody>
</table>
CERTIFICATION & LICENSING PREPARATION
Certification and licensing preparation programs are designed to prepare students to take state or other certified licensing exams or to enhance workforce skills. Topics include:
- Construction Technology, Certified Inspector of Structures
- Customer Service
- Microsoft Certified Desktop Support Technician (MCDST)
- Microsoft Certified Systems Administrators (MCSD)
- Microsoft Certified Systems Engineers (MCSE)
- Real Estate, Broker License
- Real Estate, Sales License
- Real Estate - Residential, Appraiser Apprentice License
- Real Estate - Residential, Appraiser Apprentice License

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 and events 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.

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

WORKFORCE DEVELOPMENT CENTER
The Workforce Development of Western Nevada College is dedicated to providing 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 that include topics such as supervisory training, industrial safety and customer service.

Education and training for credit or non-credit can be delivered on-site at the organization 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 .................................................. 775-423-5847

www.wnc.edu/etc

NEW DRIVER TRAINING
CLASSROOM COURSE
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.

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

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.

Call .................................................. 775-445-4282

INDUSTRIAL TECHNOLOGY PROGRAM
WNC offers a program designed primarily for those trade and industry students transferring to a university for a teacher education degree. It specializes in the occupational fields such as automotive, welding, electronics, drafting, wood, machine tool, and construction.

Call .................................................. 775-445-4408

PUBLIC SAFETY TELECOMMUNICATOR
(9-1-1 Dispatch Training)
WNC offers a 12-credit, semester-long program 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.

Call .................................................. 775-445-4408

TEACHER EDUCATION PROGRAM
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 explore a career in education. Successful completion of this set of courses prepares individuals to transfer with the emerging skills to thrive in a four-year program.

Outcomes and performance-based assessments include portfolios and lesson plan presentations. Through a well-established partnership with local schools, field experiences are an integral and early part of all teacher preparation courses so that students can begin honing their skills in an authentic setting. 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 for elementary education or to UNR to pursue a bachelor’s degree and certification in:
- Elementary Education
- Special Education/Dual (SPED/Elem)
- Secondary Education (Middle/High School)

WNC also offers professional development and recertification classes for practicing teachers in such areas as methods, teaching the gifted, classroom management techniques, and technology. WNC is committed to the effort of providing high quality teachers for their service area.

WESTERN NEVADA STATE
PEACE OFFICER ACADEMY
WNC offers a 30-week, 33.5 credit program to prepare students for careers in law enforcement. The academy begins each January and meets all Nevada and POST certification requirements.

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

Call .................................................. 775-445-4408
www.wnc.edu/conted/post.php.
WNC CARSON CITY
2201 West College Parkway
Carson City, NV 89703
775-445-3000

- 

WNC DOUGLAS
1680 Bently Parkway South
Minden, NV 89423
775-782-2413

- 

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

www.wnc.edu