



WESTERN NEVADA COLLEGE

ACADEMIC PROGRAM GUIDE



Fall 2011-Summer 2012





Go to College & Skip the Commute!

WNC Offers Six Online Degrees/Certificates

Busy Lives. Hectic Schedules. High Gas Prices.

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

See a WNC counselor to choose the schedule that works best.

ONLINE DEGREES/CERTIFICATES

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

MISSION & GOALS

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

COLLEGE GOALS

1. Improve student success in program completion and graduation rates.
2. Ensure institutional excellence in teaching, programs and services.
3. Embrace our college's many communities and respond to their diverse needs.

NON-DISCRIMINATION STATEMENT

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

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How to use the
ACADEMIC PROGRAM GUIDE

Western Nevada College is pleased to provide this booklet to help you determine your college program of study. You will find detailed information about the college's academic degrees and programs.

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775-445-3000 • www.wnc.edu



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myWNC
Student Registration System Has Arrived!

Western Nevada College is pleased to announce the launch of a new and improved online registration and student services system called **myWNC**, beginning with Fall 2011 registration. This new registration system is replacing the older Web-REG online system, and will offer expanded services to students.

myWNC is an online, self-service system that allows students to apply for admission, browse and register for classes, check financial aid status, calculate costs, pay fees, obtain grades and check degree progress.

To access **myWNC**, each student needs to have a personal e-mail address that can be used to receive an NSHE (Nevada System of Higher Education) ID number and password for registration. This new NSHE ID number will be each student's official identification number at WNC and at all other Nevada System of Higher Education schools.

LEARN MORE
www.wnc.edu

Click on the "New Students" link

INFORMATION
Refer to the Frequently Asked Questions
<http://www.wnc.edu/mywnc/faq/>



COUNSELING

Counselors are available weekdays and some evenings at campus locations to help students and community members make important decisions regarding educational goals and career directions.

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

Information445-3267

DISABILITY SUPPORT SERVICES (DSS)

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

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

Disability Services Carson City campus

Bristlecone Building, Room 103 • 445-3267 & 445-3266

TTY: 445-4489 • trists@wnc.edu

TESTING

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

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

Testing is available by appointment at WNC campuses. There is a \$15 testing fee. Photo identification is also required.

Board of Regents mandated ACT and SAT required scores are available at www.wnc.edu/student-services/counseling/

TRANSFER CENTER/CAREER CENTER

WNC's Transfer Center assists students who plan to continue their education at another school. The center provides a variety of services designed to make transfer from WNC to another college or university as easy and efficient as possible. The Transfer Center is available through Counseling Services at WNC campuses.

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



FINANCIAL ASSISTANCE

HOW TO APPLY FOR FINANCIAL AID

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

The WNC scholarship application must be completed to be considered for scholarships. Deadlines are posted on the application. *Application is available online at:*

www.wnc.edu/scholarships/

RECEIVING FINANCIAL AID & SCHOLARSHIPS

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

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

- Check: The refund check is mailed to the address listed in Web-REG.
- Direct Deposit: Students may sign up for direct deposit online through the myWNC Student Center. Allow 24 hours for processing.

VETERANS SERVICES

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

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

Veterans Standard of Satisfactory Progress

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

WE'RE HERE TO HELP

Financial Assistance..... 445-3264
www.wnc.edu/student-services/financial/



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 units 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 offers a bachelor's degree in the following area:

- **Bachelor of Technology in Construction Management**

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

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

OCCUPATIONAL PROGRAMS AND 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 four-year Bachelor of Technology degree in Construction Management helps students climb a career ladder from learning basic construction skills all the way to becoming a construction manager.

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

Students enrolled in any of these programs will benefit from "hands-on" laboratory experience within their major field. They will enter the job market with specific skills and knowledge useful for employment and advancement.

TRANSFER PROGRAMS AND 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 or Associate of Science degree. These programs of study can provide the first one or two years of their four-year degrees.

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

General Education Mission & Student Learning Outcomes

The general education program is an essential element of all degree programs and certificates of achievement offered at WNC. Faculty completed a review of the purpose of the general education program and developed a list of the 10 things that are critical to the success of WNC graduates.

These are referred to as general education student learning outcomes. All courses used to fulfill general education requirements should specify the specific general education student learning outcomes that are relevant to the course.

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 that 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 local, state, national and international levels.
- understand scientific inquiry 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 that they:

- have the appropriate communication, computational and human relations skills.



ACADEMIC PROGRAMS & DEGREES

	Online Degree	Bachelor of Technology Degree	Associate of Applied Science Degree ☆	Associate of Arts Degree ☆	Associate of Science Degree	Certificate of Achievement	Transfer Program Courses ☆	Certification Preparation
Accounting (Business)	☆		X				X	
American Sign Language						X	X	
Automotive Mechanics			X			X		X
Biological Sciences (Associate of Science)					X		X	
Bookkeeping	☆					X		X
Business	☆		X			X	X	
Chemistry (Associate of Science)					X		X	
Computer and Office Technology			X				X	
Computer Science (Associate of Science)					X			
Computer Technology - Computer Networking Technology			X					X
Computer Technology - Information Technology			X					
Computer Technology - Network Support Technician						X		X
Computer Technology - System Administration Technician						X		X
Construction Technology								X
Construction Technology - Construction Management		X						
Construction Technology - Project Management			X					
Criminal Justice - (Associate of Arts & Applied Science)			X	X			X	X
Criminal Justice - Law Enforcement/Academy (Criminal Justice)			X			X		X
Criminal Justice - 9-1-1 Dispatch Telecommunications						X		
Customer Service						X		
Deaf Studies (Associate of Arts)				X			X	
Early Childhood Education			X			X	X	
Education							X	
Engineering Science (Associate of Science)					X		X	
Fine Arts (Associate of Arts)				X			X	
Geographic Information Systems			X			X	X	
Geosciences (Associate of Science)					X		X	
Graphic Communications			X			X	X	
Machine Tool Technology			X			X		
Management (Business)	☆		X				X	
Mathematics (Associate of Science)					X		X	
Musical Theatre (Associate of Arts)				X			X	
Nursing			X				X	
Physics (Associate of Science)					X		X	
Real Estate (Business)			X					X
Retail Management						X	X	
Welding Technology			X			X		X

☆ Students may take courses in many other academic areas for transfer; see transfer degree section of this catalog and/or a WNC counselor.

☆ Degree/certificate available online



Bachelor of Technology

An Applied Baccalaureate Degree in Construction Management

BACHELOR OF TECHNOLOGY - Mission & Outcomes

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

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

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

The Bachelor of Technology degree in Construction Management offers students advanced technical and occupational skills in a formal educational route that will help them progress to supervisory positions within their field. It provides an opportunity for those who have completed an associate degree in an applied technology field to progress academically and earn a bachelor's degree. It also provides an avenue for those already working in a technical field to enroll in an applicable baccalaureate degree

program that will enhance their core and business management skills and offer career advancement opportunities. To learn more about the Bachelor of Technology degree program, please see a WNC counselor. Courses with a number under 100 (such as ENG 095) are not applicable toward a Bachelor of Technology degree at WNC.

Programs and areas of study offered at WNC include :

- Construction Management

BACHELOR OF TECHNOLOGY IN CONSTRUCTION MANAGEMENT DEGREE REQUIREMENTS

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

CAPSTONE-9 units.

Choose from:

Communication: 412

Construction Management: 456

Economics: 334, 365

Management: 462, 469

ENGLISH/COMMUNICATIONS REQUIREMENTS-9-11 units.

A minimum of 6-8 units in English and 3 units in communications.

Choose from:

Communications:

Business: 107, or

Communication: 101, 102 113, 213

English:

English: 100 or 101

English: 102

FINE ARTS REQUIREMENT-3 units.

Choose from:

Art: 100, 101, 124, 160, 224, 260, 261

Dance: 101

Humanities: 101

Music: 121, 125, 134

Music: Ensemble: 101

Theatre: 100, 105, 180

HUMANITIES REQUIREMENT-3 units.

Choose from:

Core Humanities: 201, 202

English: 200, 223, 243, 250, 252, 261, 266, 267, 271, 275

History: 105, 106, 207, 247

Philosophy (except for PHIL 102, 105, 114)

MATHEMATICS AND SCIENCE REQUIREMENTS-15 units.

A minimum of 5 units in mathematics and 7 units in science.

Choose from:

Mathematics

Mathematics: 126 & 127, 128*

Statistics: 152

Science

Chemistry: 100, 121

Environmental Studies: 100

Geology: 100, 101, 103

Physics: 100, 151, 180*

* or higher

SOCIAL SCIENCES REQUIREMENT-6 units.

3 units must be an upper division course (300-400 level, see a counselor). Lower Division, Choose from:

Anthropology: 101, 201, 202, 210, 212

Core Humanities: 203

Criminal Justice: 101, 102, 220, 230, 270

Geography: 106, 200

History: 101, 102, 111, 217, 295

Journalism: 101

Political Science: 103, 105, 108, 208, 231, 295, 299

Psychology (except for PSY 210)

Social Work: 220

Sociology (except for SOC 210)

U.S. & NEVADA CONSTITUTION REQUIREMENTS-3 or 6 units.

Must meet both requirements. Choose from:

Core Humanities: 203

History: 111

History: 101 & 217

History: 101 & 102

Political Science: 103

History and Political Science Combination (History 101 and Political Science 208)

PROGRAM REQUIREMENTS-

Number of units required vary by degree.



Transfer Degrees

Associate of Arts & Associate of Science

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

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

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

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

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

average. Students who earn an Associate of Arts or Associate of Science degree will be admitted to an NSHE university or state college regardless of their grade point average.

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

PROGRAM REQUIREMENTS:

Associate of Artspage 8
 Associate of Sciencepage 9

TRANSFER PROGRAMS

WNC students may select a course of study which enables them to complete some or all of the lower division requirements for a four-year degree from the list of transfer programs at UNR, UNLV, NSC or other schools. Recent surveys of WNC students show they have transferred to colleges throughout the country including: UNR; UNLV; Nevada State College; Southern Utah University; University of New Mexico; Arizona State University; Cal-

ifornia State University, Sacramento; University of California at Berkeley; Truckee Meadows Community College; University of Phoenix; Cosumnes River College-Los Rios; Lake Tahoe Community College; Great Basin College and Salt Lake Community College.

Programs and areas of study offered at WNC include:

- Nevada State College Teacher Education Partnership

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

Accounting	Early Childhood Education	Literature	Physiology
Agriculture	Economics	Management	Physics
Animal Science	Education	Marketing	Political Science
Anatomy	Electrical Engineering	Mathematics	Psychology
Anthropology	English	Pre-Medicine	Public Administration
Architecture	Environmental Science	Mechanical Engineering	Public Relations
Art	Finance	Metallurgical Engineering	Radiologic Technology
Astronomy	Fish/Wildlife Management	Meteorology	Recreation
Atmospheric Sciences	Foreign Languages	Mining Engineering	Religious Studies
Biochemistry	General Studies	Motion Picture and Cinema	Social Science
Biology	Geography	Multicultural (Ethnic)	Social Welfare/Social Work
Business	Geology	Studies	Sociology
Chemistry	Geological Engineering	Music	Special Education
Chemical Engineering	History	Natural Resources	Speech Communication
Civil Engineering	Hotel Administration	Nursing	Theatre Arts
Communication Arts	Humanities	Occupational Therapy	Urban Planning
Communicative Disorders	Industrial Arts	Oceanography	Pre-Veterinary Medicine
Computer Engineering	Industrial Education	Pre-Optometry	Vocational Education
Computer Science	Information Systems	Pre-Pharmacy	Zoology
Criminal Justice	Journalism	Philosophy	
Dance	Pre-Law	Physician Assistant	
Dental Hygiene	Liberal Arts	Physical Education	
Pre-Dentistry	Pre-Librarianship	Pre-Physical Therapy	
Drama			



Associate of Arts

A Transfer 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 marked with a "^" from the list below. Satisfactory completion of an AA degree guarantees completion of the lower division general education requirements at UNR, UNLV or NSC. Students intending to transfer to other schools should see a counselor or follow the catalog of the transfer school. Courses with a number under 100 (such as ENG 095) are not applicable toward the Associate of Arts degree.

All courses to be counted toward this degree must be university transferable. A maximum of six units 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 2010-2011 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 units chosen from the following:
NOTE: Choose courses marked with ^ for core curriculum transfer courses if intending to transfer to UNR.

ENGLISH/COMMUNICATIONS REQUIREMENTS- 6-8 units.

WNC and UNR

English: 100^ or 101^, 102^

FINE ARTS REQUIREMENT - 3 units.

WNC and UNR

Art: 100^, 101*, 124, 160^, 224, 260^, 261^

Dance: 101^

Humanities: 101^

Music: 121^, 125, 134

Music: Ensemble: 101*

Theatre: 100^, 105*^, 180^

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

HUMANITIES REQUIREMENT-6 units.

UNR transfer students: choose one course from each UNR group.

UNR: Group A

Core Humanities: 201^

History: 105*^

Philosophy: 200*^

UNR: Group B

Core Humanities: 202^

History: 106*^

Philosophy: 207*^

WNC

Core Humanities: 201^, 202^

English: 200, 223, 250, 261, 266, 267, 271, 275

History: 105^, 106^, 207, 247

Philosophy (except for PHIL 102, 114)

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

MATHEMATICS REQUIREMENT-3 units.

Mathematics: 120^, 126, 127, 128^, 176^, 181^, 182^, 283, 285

(126^ & 127^ must be taken together for students transferring to UNR)

Statistics: 152^

SCIENCE REQUIREMENT-6 units.

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

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

Group A

Biology: 100^, 113, 190^ & 190L^, 191^ & 191L^, 200

Chemistry: 100^, 121^, 122^

Geology: 100^, 101^, 102, 103^, 105, 127, 132, 201

Physics: 100^, 151^, 152^, 180^ & 180L^, 181^ & 181L^, 182^ & 182L^

Group B

Anthropology: 102^, 102^ & 110L^

Astronomy: 109^, 110^, 120

Atmospheric Sciences: 117^

Environmental Studies: 100^

Geography: 103^, 104

Nutrition: 121^

SOCIAL SCIENCES REQUIREMENT-9 units.

* WNC: Choose from the following list. Must include work in two or more subject areas.

Anthropology: 101^, 201^, 202^, 210, 212

Core Humanities: 203

Criminal Justice: 101, 102, 220, 230, 270

Economics: 100^, 102^, 103^

Geography: 106^, 200^

History: 101, 102, 111, 217, 295

Journalism: 101

Political Science: 103, 105, 108, 208, 231^, 295, 299

Psychology (except for PSY 210)

Social Work: 220

Sociology (except for SOC 210)

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

U.S. & NEVADA CONSTITUTION REQUIREMENTS-3 or 6 units.

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.

PROGRAM REQUIREMENTS OR GENERAL ELECTIVES-21-24 units.

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



Associate of Science

A Transfer Degree

The Associate of Science degree is designed to help students use the methods of observation, analysis and logic by which we understand the mathematical, biological and physical nature of the world. The AS degree allows early choices for those planning a professional life in mathematics, science, engineering, medicine or agriculture. The AS degree is primarily for the student who plans to transfer with junior standing to a four-year college or university for a baccalaureate degree. If the University of Nevada, Reno is the intended transfer school, choose ONLY those courses that are marked with a "^" from the list below. Satisfactory completion of an AS degree guarantees completion of the lower division general education requirements at UNR, UNLV or NSC. Students intending to transfer to other schools should see a counselor or follow the catalog of the transfer school.

Courses with a 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 units of special topics classes in one subject area may apply toward any WNC degree.

Note: UNR transfer information is based on requirements for the 2010-2011 school year. These requirements may change in subsequent years. See a counselor for the most up-to-date information.

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

- Biological Sciences
- Chemistry
- Computer Science
- Engineering Science
- Geosciences
- Mathematics
- Physics

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

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

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

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

ENGLISH/COMMUNICATIONS REQUIREMENTS-6-8 units.

WNC and UNR

English: 100^ or 101^, 102^

FINE ARTS REQUIREMENTS-3 units.

WNC and UNR

Art: 100^, 101*, 124, 160^, 224, 260^, 261^

Dance: 101

Humanities: 101^

Music: 121^, 125, 134

Music: Ensemble: 101*

Theatre: 100^, 105*^, 180^

* Course may not meet the Fine Arts requirement at all universities.

Please see a counselor.

HUMANITIES REQUIREMENTS-6 units.

UNR: Choose one course from each UNR group:

UNR Group A

Core Humanities: 201^

History: 105*^

Philosophy: 200*^

UNR: Group B

Core Humanities: 202^

History: 106*^

Philosophy: 207*^

WNC: Choose From:

Core Humanities: 201^, 202^

English: 200, 223, 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 units.

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

Mathematics: 126, 127, 128^, 176^, 181^, 182^, 283, 285

(126^ & 127^ must be taken together for students transferring to UNR)

Statistics: 152^

SCIENCE REQUIREMENTS-12 units.

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

Group A:

Biology: 100^, 190^ & 190L^, 191^ & 191L^, 200

Chemistry: 100^, 121^, 122^

Geology: 100^, 101^, 103^, 105

Physics: 100^, 151^, 152^, 180^ & 180L^, 181^ & 181L^, 182^ & 182L^

Group B:

Anthropology: 102^, 102^ & 110L^

Astronomy: 109^, 110^, 120

Atmospheric Sciences: 117^

Environmental Studies: 100^

Geography: 103^, 104

SOCIAL SCIENCES REQUIREMENTS-6 units.

Anthropology: 101^, 201^, 202^, 210, 212

Core Humanities: 203

Criminal Justice: 101, 102, 220, 230, 270

Economics: 100^, 102^, 103^

Geography: 106^, 200

History: 101, 102, 111, 217, 295

Journalism: 101

Political Science: 103, 105, 108, 208, 231^, 295, 299

Psychology: 101^, 102, 130, 233, 234, 240, 241, 261, 290, 299

Social Work: 220

Sociology: 101^, 102, 202, 205, 261, 275

U.S. & NEVADA CONSTITUTION REQUIREMENTS-3 or 6 units.

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.

PROGRAM REQUIREMENTS AND ELECTIVES

Number of units varies according to emphasis and can be found on the program of study pages under emphasis requirements.



Associate of Applied Science

The Occupational Degree

ASSOCIATE OF APPLIED SCIENCE - Mission and Outcomes

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

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

- have met the general education student learning outcomes.
- know the subject matter appropriate to the emphasis of the degree.
- have acquired skills and can perform tasks necessary for employment or career advancement.

Students enrolled in any of these programs will benefit from "hands-on" laboratory experience within their major field. They will enter the job market with specific skills and knowledge useful for employment and advancement. The Associate of Applied Science degree is designed for those students who desire a two-year course of study and training in an occupational and/or technological career field. Although the AAS degree is not designed to be a transfer program, some of the courses will transfer to four-year colleges or universities. Those students who wish to transfer to a four-year school should consult a WNC counselor. Coursework must total at least 60 units. Courses with a number under 100 (such as ENG 095) are not applicable toward an Associate of Applied Science degree at WNC.

In some cases, courses may not transfer to other Nevada community colleges and Nevada State College or to other colleges and universities. See a WNC counselor for the latest transfer information. A maximum of six units 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.

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

Programs and areas of study offered at WNC include:

- Accounting
- Automotive Mechanics
- Business, General Business Emphasis
- Computer Technology - Computer & Office Technology
- Computer Technology - Computer Networking Technology
- Construction Technology, Construction Project Management
- Criminal Justice
- Criminal Justice, Law Enforcement/Academy
- Early Childhood Education
- Geographic Information Systems (GIS)
- Graphic Communications
- Information Technology
- Machine Tool Technology
- Management
- Nursing
- Real Estate
- Welding Technology



ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS

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

ENGLISH/COMMUNICATIONS REQUIREMENT-6 units.

Must include a writing course.

Business: 107, 108

Communication: 101, 102, 113

Criminal Justice: 103

English

Journalism: 201

Reading

Writing Course (Business 108, English 100, 101, 102 or any other 200 level English class)

HUMAN RELATIONS REQUIREMENT-3 units.

Anthropology: 101, 201

Business: 110, 287

Counseling and Personal Development: 117, 129

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 units.

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, 250, 261, 266, 267, 271, 275

History: 105, 106, 207, 247

Humanities: 101

Music: 111*, 121, 125, 134

Philosophy (except for PHIL 102, 114)

Theatre: 100, 105, 180

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

Please see a counselor.

Social Sciences Area:

Anthropology: 101, 201, 202, 210, 212

Core Humanities: 203

Criminal Justice: 101, 102, 120, 215, 220, 225, 226, 230, 270

Economics: 100, 102, 103

Geography: 106, 200

History: 101, 102, 111, 217, 295

Journalism: 101

Political Science

Psychology (except for PSY 210)

Social Work: 220

Sociology (except for SOC 210)

MATHEMATICS REQUIREMENT-3 units.

Business: 109

Economics: 261, 262

Mathematics

Psychology: 210

Real Estate: 102

Sociology: 210

Statistics: 152

SCIENCE REQUIREMENT-6 units.

Anthropology: 102, 110L

Astronomy: 109, 110, 120

Atmospheric Sciences: 117

Biology (except for BIOL 208, 223, 224, 231)

Chemistry (except for CHEM 220, 241, 241L, 242, 242L)

Environmental Studies

Geography: 103, 104

Geology: 105 (except for GEOL 111, 112, 113, 299)

Natural Resources: 101

Nutrition: 121

Physics (except for PHYS 293)

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

PROGRAM REQUIREMENTS AND GENERAL ELECTIVES

Number of units required may vary by emphasis.

Some units earned in non-traditional courses may be considered for elective credit and may require review in order to be applied to the AAS degree.



Associate of General Studies

The Degree to Meet a Variety of Needs

ASSOCIATE OF GENERAL STUDIES - Mission and Outcomes

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

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

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

The Associate of General Studies has increasingly been utilized by students who intend to transfer to four-year colleges and universities. Although it was not designed for transfer, it can be used for this purpose if courses are selected carefully. The majority of the courses chosen should transfer to fulfill core and major requirements. It is recommended that anyone planning to attend the University of Nevada, Reno complete ENG 101 and 102, MATH 120 or a higher level math, and science/social science courses that

fulfill UNR's core curriculum requirements. A maximum of six units of special topics classes in one subject area may apply toward any WNC degree. In some cases, courses may not transfer to other Nevada community colleges and Nevada State College or to other colleges and universities. See a WNC counselor for the latest transfer information. Courses with a number under 100 (such as ENG 095) are not applicable toward an Associate of General Studies degree.

ASSOCIATE OF GENERAL STUDIES DEGREE REQUIREMENTS

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

ENGLISH/COMMUNICATIONS REQUIREMENT-6 units.

Must include a three-credit writing course.

Business: 107, 108

Communication: 101, 102, 113

Criminal Justice: 103

English

Journalism: 201

Reading

Writing Course (Business 108, English 100, 101, 102 or any other 200 level English class)

FINE ARTS AND HUMANITIES REQUIREMENTS-3 units.

American Sign Language

Art

Core Humanities: 201, 202

Crafts

Dance: 101

English: 190, 200, 223, 243, 250, 252, 267, 271, 282, 297

Foreign Languages

Graphic Communications

History: 105, 106, 207, 247

Humanities: 101

Music

Philosophy (except for PHIL 102, 114)

Theatre: 100, 105, 180

MATHEMATICS REQUIREMENT-3 units.

Business: 109

Economics: 261, 262

Mathematics

Psychology: 210

Real Estate: 102

Sociology: 210

Statistics: 152

SCIENCE REQUIREMENT-3 units.

Anthropology: 102, 110L

Astronomy: 109, 110, 120

Atmospheric Sciences: 117

Biology (except for BIOL 208, 223, 224, 251)

Chemistry (except for CHEM 220, 241, 241L, 242, 242L)

Environmental Studies

Geography: 103, 104

Geology: 105 (except for GEOL 111, 112, 113, 229)

Natural Resources: 101

Nutrition: 121

Physics (except for PHYS 293)

SOCIAL SCIENCES REQUIREMENT-3 units.

Anthropology: 101, 201, 202, 210, 212

Core Humanities: 203

Criminal Justice

Economics: 100, 102, 103

Geography: 106, 200

History: 101, 102, 111, 217, 295

Journalism: 101

Political Science

Psychology (except for PSY 210)

Social Work: 220

Sociology (except for SOC 210)

U.S. & NEVADA CONSTITUTION REQUIREMENTS-3 or 6 units.

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 units.

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



Certificate of Achievement

CERTIFICATE OF ACHIEVEMENT - Mission and Outcomes

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

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

- know the subject matter appropriate to the emphasis of the certificate.
- are able to do the following:
 - acquire the skills necessary for employment or career enhancement.
 - successfully represent themselves to a potential employer.
 - demonstrate effective communication and computational skills appropriate to the certificate area.
 - utilize appropriate resources for remaining current in the certificate area.
- have developed an appreciation of the importance of social, ethical, legal and diversity issues.

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 units is required for any certificate of achievement, although the exact number of units required may differ with particular subject matter. All certifi-

cates include general education requirements which can be fulfilled from the following list of courses. In some cases, courses may not transfer to other Nevada community colleges and Nevada State College or to other colleges and universities. See a WNC counselor for the latest transfer information. Courses with a number under 100 (such as ENG 095) are not applicable toward a certificate of achievement at WNC.

Programs and areas of study offered at WNC include:

- American Sign Language
- Automotive Mechanics
- Bookkeeping
- Business
- Computer Technology, Network Support Technician
- Computer Technology, System Administration Technician
- Criminal Justice, Law Enforcement/ Academy
- Criminal Justice, 9-1-1 Dispatch Telecommunications
- Customer Service
- Early Childhood Education
- Geographic Information Systems (GIS)
- Graphic Communications
- Machine Tool Technology
- Retail Management
- Welding Technology

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

ENGLISH/COMMUNICATIONS REQUIREMENTS-3-6 units.

Must include a writing course

Business: 107, 108

Communication: 101, 102, 113

Criminal Justice: 103

English

Journalism: 201

Reading

Writing Course (Business 108, English 100, 101, 102 or any other 200 level English class.)

HUMAN RELATIONS REQUIREMENT-1-3 units.

Anthropology: 101, 201

Business: 110, 287

Counseling and Personal Development: 117, 129

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 units.

Business: 109

Economics: 261, 262

Mathematics

Psychology: 210

Real Estate: 102

Sociology: 210

Statistics: 152

PROGRAM REQUIREMENTS-Varies by subject.

A minimum of 30 units is required for any certificate of achievement, although the exact number of units required may differ with particular subject matter.



ACADEMIC DEGREES

ACCOUNTING

Associate of Applied Science in Business

The Accounting degree 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: \$42,630-70,590 / year (Nevada)

Career Outlook: Average growth

Good To Know: Four major accounting fields - public, corporate, government and internal auditing

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

Total Requirements: 60 units

Program Requirements* 42 Units

ACC 201	Financial Accounting	3
ACC 202	Managerial Accounting	3
BUS 101	Introduction to Business	3
or MGT 103	Introduction to Small Business Management	
BUS 110	Human Relations For Employment	3
or MGT 201	Principles of Management	
or MGT 212	Leadership & Human Relations	
or MGT 283	Introduction to Human Resources Management	
BUS 273	Business Law I	3
ECON 102	Principles of Microeconomics	3
ECON 103	Principles of Macroeconomics	3
IS 101	Introduction to Information Systems	3
IS 201	Computer Applications	3
ACC 203	Intermediate Accounting I	3
ACC 220	Microcomputer Accounting Systems	3
or ACC 223	Introduction to Quickbooks	

Choose 9 units from the following:

ACC 105	Taxation For Individuals	3
ACC 180	Payroll & Employee Benefit Accounting	3
ACC 198	Special Topics in Accounting	3
ACC 204	Intermediate Accounting II	3
ACC 220	Microcomputer Accounting Systems	3
ACC 223	Introduction to QuickBooks	3
ACC 261	Governmental Accounting	3
ACC 290	Certified Bookkeeper Course	6
ACC 295	Work Experience I	3
ACC 299	Advanced Special Topics in Accounting	3
COT 262	Intermediate Spreadsheets Concepts	3

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

General Education Requirements 18 Units

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

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

ACCOUNTING - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
ACC 201	3 <input type="checkbox"/>	ACC 203	3 <input type="checkbox"/>
BUS 108 or Eng/Comm (Writing class required)	3 <input type="checkbox"/>	Accounting Elective	3 <input type="checkbox"/>
BUS 109 or higher math	3 <input type="checkbox"/>	BUS 101 or MGT 103	3 <input type="checkbox"/>
ECON 102	3 <input type="checkbox"/>	Science Elective	3 <input type="checkbox"/>
IS 101	3 <input type="checkbox"/>	U.S./Nevada Constitutions	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
ACC 202	3 <input type="checkbox"/>	Accounting Elective	6 <input type="checkbox"/>
ACC 220	3 <input type="checkbox"/>	BUS 110, MGT 201, MGT 212 or MGT 283	3 <input type="checkbox"/>
BUS 107 or other Eng/Comm	3 <input type="checkbox"/>	BUS 273	3 <input type="checkbox"/>
ECON 103	3 <input type="checkbox"/>	General Elective	3 <input type="checkbox"/>
IS 201	3 <input type="checkbox"/>		

ACCOUNTING - Mission & Outcomes

Mission: The purpose of the AAS Accounting in business is to provide the knowledge and skills necessary to succeed in the current business environment.

Student Learning Outcomes:

- Provide employment related knowledge and skills
- Know subject matter
- Understand accounting principles and their importance to the business environment
- Demonstrate oral, written, computational and computer skills
- Demonstrate managerial and personal skills
- Utilize appropriate resources to remain current in their field
- Appreciate the importance of social, ethical, legal and diversity issues

AMERICAN SIGN LANGUAGE

- See Deaf Studies -



ACADEMIC DEGREES

AUTOMOTIVE MECHANICS

Associate of Applied Science

The Automotive Mechanics program offers students an opportunity to acquire the necessary skills and technical theory for a successful career as an automotive mechanic. Individuals who are now employed in the automotive mechanics field will be able to upgrade their knowledge. Students obtaining this associate degree will have completed courses of a very technical nature, chosen to complement each other and provide breadth and depth of diagnostic and repair skill abilities necessary to work in a service facility.

Salary: \$29,410-54,180 / year (Nevada)

Career Outlook: Higher than average growth

Good To Know: Mechanics can be certified in as many as eight service areas.

Most jobs are at repair shops and auto dealerships

WNC Academic Division: Technology

Total Requirements: 61 units

Program Requirements 37 Units

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

General Education Requirements 24 Units

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

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

AUTOMOTIVE MECHANICS

Certificate of Achievement

WNC Academic Division: Technology

Total Requirements: 31 units

Program Requirements 19 Units

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

General Education Requirements 12 Units

English/Communications Requirements: <i>Must include a writing course</i>	6
Human Relations Requirement: <i>Recommended: BUS 110</i>	1
Mathematics Requirement	3
General Electives	2

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

AUTOMOTIVE MECHANICS - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
AUTO 101	3 <input type="checkbox"/>	AUTO 145	4 <input type="checkbox"/>
AUTO 115	4 <input type="checkbox"/>	AUTO 225	4 <input type="checkbox"/>
AUTO 130	3 <input type="checkbox"/>	AUTO 227	4 <input type="checkbox"/>
BUS 107	3 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
Mathematics Course	3 <input type="checkbox"/>		
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
AUTO 117	4 <input type="checkbox"/>	AUTO 235	4 <input type="checkbox"/>
AUTO 155	4 <input type="checkbox"/>	BUS 110	3 <input type="checkbox"/>
AUTO 160	3 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
BUS 108	3 <input type="checkbox"/>	U.S./Nevada	
Humanities/Social Science Course	3 <input type="checkbox"/>	Constitutions	3 <input type="checkbox"/>

ASSOCIATE OF APPLIED SCIENCE - AUTOMOTIVE MECHANICS

Mission & Outcomes

Mission: The mission of the Associate of Applied Science in Automotive Mechanics is to provide employment-related knowledge and skills necessary to succeed in 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.



ACADEMIC DEGREES

BIOLOGICAL SCIENCES

Associate of Science

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

Salary: \$56,410-74,370 / year (Nevada)

Career Outlook: Slower than average growth.

Good To Know: For advancement, some fields require graduate degrees. Strong competition for research positions.

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 63-64 units

Program Requirements 39 Units

BIOL 190	Introduction to Cell and Molecular Biology	3
BIOL 190L	Introduction to Cell and Molecular Biology Lab	1
BIOL 191	Introduction to Organismal Biology	3
BIOL 191L	Introduction to Organismal Biology Lab	1
CHEM 121	General Chemistry I	4
CHEM 122	General Chemistry II	4
MATH 128*	Precalculus and Trigonometry	5
MATH 181	Calculus I	4
PHYS 151	General Physics I	4
PHYS 152	General Physics II	4

* Can substitute Math 126 and Math 127 for Math 128

Choose 6 units from the following list:

CHEM 220	Introductory Organic Chemistry	4
NUTR 223	Principles of Nutrition	3
STAT 152	Introduction to Statistics	3

General Education Requirement 24 Units

English/Communications Requirements: *Recommended: ENG 101, ENG 102*

Fine Arts Requirements 6

Humanities Requirements: *Recommended: CH 201, CH 202* 6

Social Sciences Requirements 6

U.S. and Nevada Constitution Requirements 3

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

Note: EPY 150 is strongly recommended but not required for graduation. PHYS 180/180L and 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.

BIOLOGICAL SCIENCES - Suggested Course Sequence 1

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Courses	3 <input type="checkbox"/>	General Education Course	9 <input type="checkbox"/>
ENG 101	3 <input type="checkbox"/>	BIOL 190	3 <input type="checkbox"/>
CHEM 121	4 <input type="checkbox"/>	BIOL 190L	1 <input type="checkbox"/>
MATH 128*	5 <input type="checkbox"/>	PHYS 151	4 <input type="checkbox"/>
*Alternatively, a student may take MATH 126 and 127			
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education Courses	3 <input type="checkbox"/>	Emphasis Elective	6 <input type="checkbox"/>
ENG 102	3 <input type="checkbox"/>	General Education Course	3 <input type="checkbox"/>
CHEM 122	4 <input type="checkbox"/>	BIOL 191	3 <input type="checkbox"/>
MATH 181	4 <input type="checkbox"/>	BIOL 191L	1 <input type="checkbox"/>
		PHYS 152	4 <input type="checkbox"/>

BIOLOGICAL SCIENCES - Suggested Course Sequence 2

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Courses	6 <input type="checkbox"/>	General Education Course	3 <input type="checkbox"/>
ENG 101	3 <input type="checkbox"/>	BIOL 190	3 <input type="checkbox"/>
CHEM 121	4 <input type="checkbox"/>	BIOL 190L	1 <input type="checkbox"/>
MATH 126*	3 <input type="checkbox"/>	MATH 181	4 <input type="checkbox"/>
		PHYS 151	4 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education Courses	6 <input type="checkbox"/>	Emphasis Elective	6 <input type="checkbox"/>
ENG 102	3 <input type="checkbox"/>	General Education Course	3 <input type="checkbox"/>
CHEM 122	4 <input type="checkbox"/>	BIOL 191	3 <input type="checkbox"/>
MATH 127*	3 <input type="checkbox"/>	BIOL 191L	1 <input type="checkbox"/>
*A student may take MATH 128 instead of MATH 126 and 127		PHYS 152	4 <input type="checkbox"/>

ASSOCIATE OF SCIENCE - BIOLOGICAL SCIENCES

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 the biological sciences emphasis is to "equip students with basic and applied knowledge in general biology with an emphasis in critical thinking, bioethical issues, a basic understanding of the scientific method, and laboratory and analytical skills related to the field of biology" and to prepare students for transfer into many disciplines including but not limited to, biology, environmental studies, pre-health care, biochemistry, biotechnology, or as preparation for a teaching career.

Student Learning Outcomes: The student learning outcomes, pertinent to this degree, are as follows:

- Demonstrate an understanding of the organization of biological systems at the molecular, cellular, and organismal levels
- Recognize the great diversity of living forms and understand the biological basis of their common evolutionary origin
- Demonstrate a knowledge of the basic methods, instruments, and analytic skills used to conduct scientific research in biology
- Develop an understanding of the history and philosophy of science as well as its relationship to society and the daily lives of students
- Develop the critical thinking skills and scientific literacy necessary to critically review the scientific literature in biology, analyze problems, and interpret results using the scientific method. Once acquired, these skills will provide a foundation for lifelong learning and career development.



ACADEMIC DEGREES

BUSINESS PROGRAM

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

Programs of study offered at WNC include:

- Accounting
- Business
- Computer & Office Technology
- Management
- Real Estate

Certificates offered at WNC include:

- Bookkeeping
- Business
- Customer Service
- Retail Management

BOOKKEEPING

Certificate of Achievement

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

Salary: \$27,410-\$42,130 / year (Nevada)

Career Outlook: Slower than average growth

Good To Know: The majority of new jobs will be created in small, rapidly growing organizations. Many opportunities for part-time and temporary work.

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

Total Requirements: 30-33 units

Program Requirements		21-24 Units
ACC 135	Bookkeeping I	3
& ACC 201	Financial Accounting	3
or ACC 201	Financial Accounting	
& ACC 202	Managerial Accounting	
ACC 220	Microcomputer Accounting Systems	3
or ACC 223	Introduction to Quickbooks	
BUS 110	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	
IS 101	Introduction to Information Systems	3
IS 201	Computer Applications	3

Choose 3-6 units from the following:

ACC 105	Taxation For Individuals	3
ACC 180	Payroll & Employee Benefit Accounting	3
ACC 198	Special Topics in Accounting	3
ACC 203	Intermediate Accounting I	3
ACC 220	Microcomputer Accounting Systems	3
ACC 223	Introduction to QuickBooks	3
ACC 261	Governmental Accounting	3
ACC 290	Certified Bookkeeper Course	6
ACC 299	Advanced Special Topics in Accounting	3

General Education Requirements 9 Units

English/Communications Requirements: *Recommended: BUS 107, BUS 108;*

Must include a writing course 6

Mathematics Requirement: *BUS 109 or higher level mathematics course* 3

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

BOOKKEEPER CERTIFICATION

Certification and Licensing Preparation

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

Salary: \$27,410-\$42,130 / year (Nevada)

Career Outlook: Slower than average growth

Good To Know: The majority of new jobs will be created in small, rapidly growing organizations. Many opportunities for part-time and temporary work.

Total Requirements: 6 units

ACC 290	Certified Bookkeeper Course	6
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BOOKKEEPER CERTIFICATION - Mission & Outcomes

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

Student Learning Outcomes

At completion of this program, students will have mastered the following areas:

- Adjusting Entries
- Correction of accounting errors
- Payroll
- Depreciation
- Inventory
- Internal controls

BOOKKEEPING - Suggested Course Sequence

FIRST SEMESTER	Completed	SECOND SEMESTER	Completed
ACC 135 or ACC 201	3 <input type="checkbox"/>	ACC 201 or ACC 202	3 <input type="checkbox"/>
BUS 108 or Eng/Comm	3 <input type="checkbox"/>	ACC 220	3 <input type="checkbox"/>
BUS 109 or higher math	3 <input type="checkbox"/>	Accounting Elective	3-6 <input type="checkbox"/>
BUS 110, MGT 201, MGT 212 or MGT 283	3 <input type="checkbox"/>	BUS 107 or Eng/Comm	3 <input type="checkbox"/>
IS 101	3 <input type="checkbox"/>	IS 201	3 <input type="checkbox"/>



ACADEMIC DEGREES

BUSINESS

Associate of Applied Science

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

Salary: Depends on size & type of organization. \$47,200-\$84,940 / year (Nevada)

Career Outlook: Average growth, strong competition

Good To Know: Often includes hiring, training and supervising employees

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

Total Requirements: 60 units

Program Requirements		27 Units
ACC 135	Bookkeeping I	3
& ACC 201	Financial Accounting	3
or ACC 201	Financial Accounting	
& ACC 202	Managerial Accounting	
BUS 101	Introduction to Business	3
or MGT 103	Introduction to Small Business Management	
BUS 110	Human Relations For Employment	3
or MGT 201	Principles of Management	
or MGT 212	Leadership & Human Relations	
or MGT 283	Introduction to Human Resources Management	
BUS 273	Business Law I	3
ECON 102	Principles of Microeconomics	3
ECON 103	Principles of Macroeconomics	3
IS 101	Introduction to Information Systems	3
IS 201	Computer Applications	3

15 Units

Choose 15 units from the following areas:

Accounting, Business, Economics, Finance, Insurance, Management, Marketing or Real Estate. Must take at least 3 units in three different subject areas.

General Education Requirements

18 Units

English/Communications Requirement: *Recommended: BUS 107, BUS 108;*

Must include a writing course

Mathematics Requirement: *BUS 109 or higher level mathematics course*

Science Requirement

U.S. and Nevada Constitution Requirements

General Electives

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

BUSINESS - Suggested Course Sequence			
FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
U.S./Nevada Constitution	3 <input type="checkbox"/>	ACC 135 or ACC 201	3 <input type="checkbox"/>
BUS 101 or MGT 103	3 <input type="checkbox"/>	BUS 110, MGT 201,	
BUS 107	3 <input type="checkbox"/>	MGT 212, or MGT 283	3 <input type="checkbox"/>
BUS 109 or math	3 <input type="checkbox"/>	Business Elective	3 <input type="checkbox"/>
IS 101	3 <input type="checkbox"/>	Business Elective	3 <input type="checkbox"/>
		ECON 103	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
Science Course	3 <input type="checkbox"/>	General Elective	3 <input type="checkbox"/>
BUS 108	3 <input type="checkbox"/>	ACC 201 or ACC 202	3 <input type="checkbox"/>
BUS 273	3 <input type="checkbox"/>	Business Elective	3 <input type="checkbox"/>
ECON 102	3 <input type="checkbox"/>	Business Elective	3 <input type="checkbox"/>
IS 201	3 <input type="checkbox"/>	Business Elective	3 <input type="checkbox"/>

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: Social Science, Education, Humanities & Public Service

Total Requirements: 30 units

Program Requirements		21 Units
ACC 135	Bookkeeping I	3
or ACC 201	Financial Accounting	
BUS 101	Introduction to Business	3
or MGT 103	Introduction to Small Business Management	
BUS 107*	Business Speech Communications	3
BUS 110	Human Relations For Employment	3
or MGT 212	Leadership & Human Relations	
BUS 112	Customer Service	3
or MKT 261	Introduction to Public Relations	
or MKT 210	Marketing Principles	
IS 101	Introduction to Information Systems	3
or IS 201	Computer Applications	
MGT 201	Principles of Management	3
or MGT 235	Organizational Behavior	

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

General Education Requirements

9 Units

English/Communications Requirements: *Recommended: BUS 108;*

Must be a writing course

Mathematics Requirement: *BUS 109 or higher level mathematics course*

General Electives

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

BUSINESS - Suggested Course Sequence			
FIRST SEMESTER	Completed	SECOND SEMESTER	Completed
ACC 135 or ACC 201	3 <input type="checkbox"/>	BUS 108	3 <input type="checkbox"/>
BUS 101 or MGT 103	3 <input type="checkbox"/>	BUS 109	3 <input type="checkbox"/>
BUS 107	3 <input type="checkbox"/>	BUS 112, MKT 261	
BUS 110 or MGT 212	3 <input type="checkbox"/>	or MKT 210	3 <input type="checkbox"/>
IS 101 or IS 201	3 <input type="checkbox"/>	Elective	3 <input type="checkbox"/>
		MGT 201 or MGT 235	3 <input type="checkbox"/>

CERTIFICATE OF BUSINESS - Mission & Outcomes

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

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



ACADEMIC DEGREES

CHEMISTRY

Associate of Science

The Chemistry degree is designed to prepare students to transfer to baccalaureate programs in the science, health, teaching, and engineering fields, or the work force in chemistry-related industries.

Salary: \$57,810-\$99,160 / year (Nevada)

Career Outlook: Much slower than average growth

Good To Know: For advancement, some fields require graduate degrees. Much of growth will be in drug manufacturing companies and research testing services

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 units

Program Requirements 36 Units

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

General Education Requirements 24 Units

English/Communications Requirements: <i>Recommended: ENG 101, ENG 102</i>	6
Fine Arts Requirements	3
Humanities Requirements: <i>Recommended: CH 201, CH 202</i>	6
Social Sciences Requirements	6
U.S. and Nevada Constitution Requirements	3

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

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

CHEMISTRY - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
BIOL 190	3 <input type="checkbox"/>	General Education	
BIOL 190L	1 <input type="checkbox"/>	Courses	6 <input type="checkbox"/>
CHEM 121	4 <input type="checkbox"/>	CHEM 241	3 <input type="checkbox"/>
General Education		CHEM 241L	1 <input type="checkbox"/>
Course	3 <input type="checkbox"/>	PHYS 181	3 <input type="checkbox"/>
MATH 181	4 <input type="checkbox"/>	PHYS 181L	1 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education		General Education	
Course	3 <input type="checkbox"/>	Courses	12 <input type="checkbox"/>
CHEM 122	4 <input type="checkbox"/>	CHEM 242	3 <input type="checkbox"/>
MATH 182	4 <input type="checkbox"/>	CHEM 242L	1 <input type="checkbox"/>
PHYS 180	3 <input type="checkbox"/>		
PHYS 180L	1 <input type="checkbox"/>		

ASSOCIATE OF SCIENCE CHEMISTRY - Mission & Outcomes

Mission: To prepare students for baccalaureate programs in the science, health, teaching, and engineering fields, or the work force in chemistry-related industries.

Student Learning Outcomes:

- Have the ability to design and conduct laboratory experiments, as well as analyze and interpret data.
- Be able to demonstrate an introductory level of knowledge in:
 - principles of general & organic chemistry with applications to biological systems
- Be able to use mathematics and computers to solve chemistry problems.
- Be able to demonstrate an understanding of the scientific method.
- Be capable of applying safety standards when using laboratory chemicals, equipment, and instruments.



ACADEMIC DEGREES

COMPUTER AND OFFICE TECHNOLOGY

Associate of Applied Science

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

Salary: \$35,300-\$55,170 / year (Nevada)

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

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

WNC Academic Division: Technology

Total Requirements: 60 units

Program Requirements 21 Units

Strongly recommend 40 wpm typing skills for successful degree completion.

ACC 135	Bookkeeping I	3
or ACC 220	Microcomputer Accounting Systems	
or ACC 223	Introduction to Quickbooks	
BUS 110	Human Relations For Employment	3
or MGT 212	Leadership & Human Relations	
COT 200	Beginning Word Processing	3
or COT 216	Intermediate Word Processing	
COT 204	Using Windows	3
COT 262	Intermediate Spreadsheets Concepts	3
IS 101	Introduction to Information Systems	3
IS 201	Computer Applications	3

18 Units

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

BUS 112	Customer Service	3
CIT 151	Beginning Web Development	3
CIT 152	Web Script Language Programming	3
COT 101	Computer Keyboarding I	3
or COT 102	Computer Keyboarding II	
COT 222	Desktop Publishing With Word Processing	3
COT 223	Advanced Desktop Publishing	3
COT 266	Intermediate Database Concepts	3
GRC 119	Computer Graphics - Digital Media	3
GRC 283	Electronic Imaging II	3
MKT 210	Marketing Principles	3

Students interested in Desktop Publishing skills should include in their choices: COT 222, COT 223, GRC 119, BUS 112 and MKT 210

Students interested in Web Design skills should include in their choices: CIT 151, CIT 152, BUS 112, and GRC 119

Students interested in Computer Applications skills should include in their choices: COT 266, BUS 112, COT 101 OR COT 102

General Education Requirements 21 Units

English/Communications Requirement: <i>Recommended: BUS 107, BUS 108;</i>	
<i>Must include a writing course</i>	6
Humanities/Social Science Requirements	3
Mathematics Requirement: <i>Recommended: BUS 109</i>	3
Science Requirement	3
U.S. and Nevada Constitution Requirements	3
General Electives	3

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

COMPUTER AND OFFICE TECHNOLOGY - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
Mathematics Course	3 <input type="checkbox"/>	Humanities/Social Science Course	3 <input type="checkbox"/>
English Course	3 <input type="checkbox"/>	U.S./Nevada Constitution	3 <input type="checkbox"/>
ACC 135 or ACC 201	3 <input type="checkbox"/>	BUS 110	3 <input type="checkbox"/>
IS 101	3 <input type="checkbox"/>	COT 200	3 <input type="checkbox"/>
Program Elective	3 <input type="checkbox"/>	Program Elective	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
English Course	3 <input type="checkbox"/>	General Elective	3 <input type="checkbox"/>
COT 204	3 <input type="checkbox"/>	COT 262	3 <input type="checkbox"/>
IS 201	3 <input type="checkbox"/>	Program Elective	9 <input type="checkbox"/>
Program Elective	3 <input type="checkbox"/>		
Science Course	3 <input type="checkbox"/>		

ASSOCIATE OF APPLIED SCIENCE COMPUTER AND OFFICE TECHNOLOGY - Mission & Outcomes

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

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

Know:

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

Are able to:

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

Appreciate and value:

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



ACADEMIC DEGREES

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: \$47,620-\$75,870/ year (Nevada)

Career Outlook: Much faster than average growth

Good To Know: Bachelor's degree required for most systems analysts

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 64 units

Program Requirements

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

General Education Requirements

24 Units

English/Communications Requirements: <i>Recommended: ENG 101, ENG 102</i>	6
Fine Arts Requirements	3
Humanities Requirements	6
Social Sciences Requirements	6
U.S. and Nevada Constitution Requirements	3

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

COMPUTER SCIENCE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education		CS 135	3 <input type="checkbox"/>
Courses	6 <input type="checkbox"/>	General Education	
CHEM 121	4 <input type="checkbox"/>	Courses	3 <input type="checkbox"/>
CIT 130	3 <input type="checkbox"/>	MATH 283	4 <input type="checkbox"/>
MATH 181	4 <input type="checkbox"/>	PHYS 181	3 <input type="checkbox"/>
		PHYS 181L	1 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
CIT 260	3 <input type="checkbox"/>	General Education	
General Education		Courses	9 <input type="checkbox"/>
Courses	6 <input type="checkbox"/>	CPE 201	4 <input type="checkbox"/>
MATH 182	4 <input type="checkbox"/>	CS 202	3 <input type="checkbox"/>
PHYS 180	3 <input type="checkbox"/>		
PHYS 180L	1 <input type="checkbox"/>		

ASSOCIATE OF SCIENCE - COMPUTER SCIENCE

Mission & Outcomes

Mission: The purpose of the Associate of Science degree in Computer Science 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 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

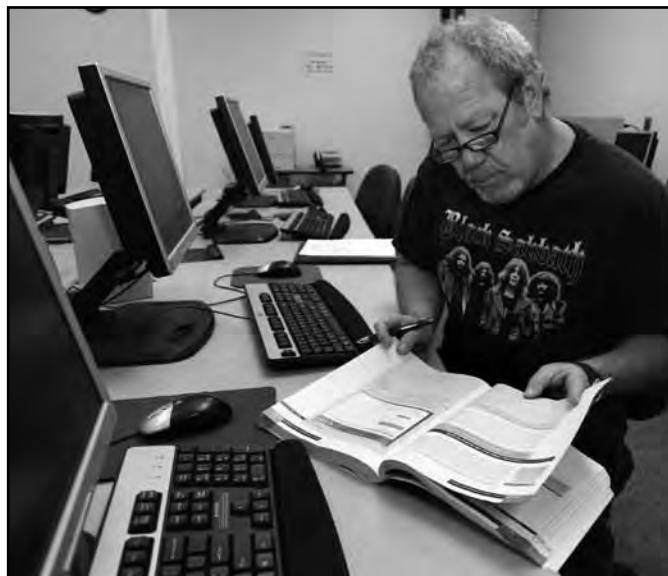
- Know:
- practices and procedures required for transfer to a four-year institution
 - entry-level skill set
 - theoretical principles relevant to their field of study

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
- 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
- standards of social, ethical, legal, accessibility and diversity issues of their work environment



ACADEMIC DEGREES

COMPUTER TECHNOLOGY PROGRAMS

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

The college offers Associate of Applied Science degrees:

- Computer Networking Technology

The college offers Certificates of Achievement:

- Network Support Technician
- System Administration Technician

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

COMPUTER TECHNOLOGY - COMPUTER NETWORKING TECHNOLOGY			
Suggested Course Sequence			
FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
English Course	3 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
Math Course	3 <input type="checkbox"/>	Humanities/Social Science Course	3 <input type="checkbox"/>
CIT 211 or CSCO 120	4 <input type="checkbox"/>	CIT 211 or CSCO 120	4 <input type="checkbox"/>
CIT 212 or CSCO 121	4 <input type="checkbox"/>	CIT 212 or CSCO 121	4 <input type="checkbox"/>
SECOND SEMESTER	Completed	CIT 263	3 <input type="checkbox"/>
Networking Electives	6-8 <input type="checkbox"/>	FOURTH SEMESTER	Completed
English Course	3 <input type="checkbox"/>	General Elective	0-1 <input type="checkbox"/>
CIT 161	3 <input type="checkbox"/>	US/Nev. Constitution	3 <input type="checkbox"/>
		Science Course	3 <input type="checkbox"/>
		CSCO 130	4 <input type="checkbox"/>
		Human Relations Course	3 <input type="checkbox"/>
		MGT 201, MGT 212, or MGT 283	3 <input type="checkbox"/>

COMPUTER NETWORKING TECHNOLOGY

Associate of Applied Science

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

Salary: \$51,190-\$91,610 / year (Nevada)

Career Outlook: Much faster than average growth

Good To Know: Businesses & government are investing heavily in 'cyber-security'

WNC Academic Division: Technology

Total Requirements: 60-61 units

Program Requirements		35-37 Units
CIT 161	Essentials of Information Security	3
CIT 211	Microsoft Networking I	4
CIT 212	Microsoft Networking II	4
CIT 263	Introduction to IT Project Management	3
CSCO 120	CCNA Internetworking Fundamentals Elective	4
CSCO 121	CCNA Routing Protocols & Concepts	4
CSCO 130	Fundamentals of Wireless LANs	4
MGT 201	Principles of Management	3
or MGT 212	Leadership & Human Relations	
or MGT 283	Introduction to Human Resources Management	

Choose two courses from the following:

CIT 173	Linux Installation and Configuration	3
CIT 174	Linux System Administration	3
CIT 213	Microsoft Networking III	4
CIT 214	Microsoft Networking IV	4
CIT 215	Microsoft Networking V	4
Any CSCO class		4-8

General Education Requirements

	24-25 Units
English/Communications Requirement: <i>Recommended: BUS 107&108;</i>	
<i>Must include a writing course</i>	6
Human Relations Requirement	3
Humanities/Social Science Requirements	3
Mathematics Requirement: <i>Recommended: MATH 126 or higher</i>	3
Science Requirement	6
U.S. and Nevada Constitution Requirements	3
General Electives	0-1

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

ASSOCIATE OF APPLIED SCIENCE - COMPUTER TECHNOLOGY

Mission & Outcomes

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

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

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

Are able to:

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

Appreciate and value:

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



ACADEMIC DEGREES

COMPUTER TECHNOLOGY

Network Support Technician Certificate of Achievement

Salary: \$34,900–\$75,900 year (Nevada)

Career Outlook: Growth will be much faster than average

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

WNC Academic Division: Technology

Total Requirements: 33 – 35 units

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

General Education Requirements 7–9 Units

English/Communications Requirements: <i>Must include a writing course</i>	3
Human Relations Requirement	1–3
Mathematics Requirement	3

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

COMPUTER TECHNOLOGY - NETWORK SUPPORT TECHNICIAN

Suggested Course Sequence

FIRST SEMESTER	Completed	SECOND SEMESTER	Completed
English Course	3 <input type="checkbox"/>	Human Relations Course	1-3 <input type="checkbox"/>
Mathematics Course	3 <input type="checkbox"/>	CIT 161	3 <input type="checkbox"/>
CIT 263	3 <input type="checkbox"/>	CSCO 130	4 <input type="checkbox"/>
CSCO 120	4 <input type="checkbox"/>	CSCO 220	4 <input type="checkbox"/>
CSCO 121	4 <input type="checkbox"/>	CSCO 221	4 <input type="checkbox"/>

CERTIFICATE OF ACHIEVEMENT - COMPUTER TECHNOLOGY NETWORK TECHNICIAN - Mission & Outcomes

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

Student Learning Outcomes: Students in the Computer Technology Certificate programs are expected to:

Know:

- the competencies required to successfully pass information technology certification exams.

Are able to:

- demonstrate the skills and competencies required of professionals in the information technology industry in real-world practice.
- communicate effectively and appropriately, in oral and written form, with employees, colleagues and lay people.
- locate, evaluate and properly utilize the tools and resources appropriate to an information technology professional.

Appreciate:

- the need for continuing education and lifelong learning.

COMPUTER TECHNOLOGY

System Administration Technician Certificate of Achievement

Salary: \$34,900–\$75,900 / year (Nevada)

Career Outlook: Faster than average growth

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

WNC Academic Division: Technology

Total Requirements: 33 – 35 units

Program Requirements		26 Units
CIT 161	Essentials of Information Security	3
CIT 211	Microsoft Networking I	4
CIT 212	Microsoft Networking II	4
CIT 213	Microsoft Networking III	4
CIT 214	Microsoft Networking IV	4
CIT 215	Microsoft Networking V	4
or CIT 165	Introduction to Convergence	
or ET 155	Home Technology Convergence	
CIT 263	Introduction to IT Project Management	3

General Education Requirements 7–9 Units

English/Communications Requirements: <i>Must include a writing course</i>	3
Human Relations Requirement	1–3
Mathematics Requirement	3

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

COMPUTER TECHNOLOGY - SYSTEM ADMINISTRATION TECHNICIAN

Suggested Course Sequence

FIRST SEMESTER	Completed	SECOND SEMESTER	Completed
English Course	3 <input type="checkbox"/>	Human Relations Course	1-3 <input type="checkbox"/>
Mathematics Course	3 <input type="checkbox"/>	CIT 161	3 <input type="checkbox"/>
CIT 211	4 <input type="checkbox"/>	CIT 213	4 <input type="checkbox"/>
CIT 212	4 <input type="checkbox"/>	CIT 214	4 <input type="checkbox"/>
CIT 263	3 <input type="checkbox"/>	CIT 215	4 <input type="checkbox"/>

CERTIFICATE OF ACHIEVEMENT - COMPUTER TECHNOLOGY SYSTEM ADMINISTRATION TECHNICIAN - Mission & Outcomes

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

Student Learning Outcomes: Students in the Computer Technology Certificate programs are expected to:

Know:

- the competencies required to successfully pass information technology certification exams

Are able to:

- demonstrate the skills and competencies required of professionals in the information technology industry in real-world practice
- communicate effectively and appropriately, in oral and written form, with employees, colleagues and lay people
- locate, evaluate and properly utilize the tools and resources appropriate to an information technology professional

Appreciate:

- the need for continuing education and life long learning



ACADEMIC DEGREES

CONSTRUCTION TECHNOLOGY PROGRAM

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

The college offers both an associate degree and a 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

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

Deborah Case, BTEch Advisor: 775-445-3270 or cased3@wnc.edu

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: \$49,300–\$82,300/ year (Nevada)

Career Outlook: Average growth

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

WNC Academic Division: Technology

Total Requirements: 61 units

Program Requirements		37 Units
BI 101	Introduction to Building Codes	3
CONS 108	Construction Materials and Methods	3
CONS 120	Blueprint Reading and Specification	3
CONS 121	Principles of Construction Estimating	3
CONS 205	Construction Site Safety	1
AC 198	Special Topics in HVAC	2
CONS 114	Soils, Sitework, Concrete and Testing	3
CONS 116	Plumbing Principles and Methods	2
CONS 118	Construction Contract Documents	3
CONS 216	Structural Layout Assembly	2
CONS 230	Electrical Distribution System	2
CONS 281	Construction Planning Scheduling And Control	3
CONS 290	Internship in Construction	3
SUR 161	Elementary Surveying	4
or SUR 265	Introduction to Construction Surveying	

General Education Requirements

General Education Requirements		24 Units
English/Communications Requirement:	<i>Recommended: BUS 107, BUS 108</i>	6
Human Relations Requirement:	<i>Recommended: BUS 110</i>	3
Humanities/Social Science Requirements		3
Mathematics Requirement:	<i>Recommended: MATH 110</i>	3
Science Requirement:	<i>Recommended: PHYS 100</i>	6
U.S. and Nevada Constitution Requirements		3

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

ASSOCIATE OF APPLIED SCIENCE - CONSTRUCTION TECHNOLOGY

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

Certified Inspector of Structures

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

CONSTRUCTION TECHNOLOGY - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
BUS 107	3 <input type="checkbox"/>	CONS 116	2 <input type="checkbox"/>
CONS 108	3 <input type="checkbox"/>	CONS 118	3 <input type="checkbox"/>
CONS 120	3 <input type="checkbox"/>	CONS 216	2 <input type="checkbox"/>
MATH 110	3 <input type="checkbox"/>	CONS 281	3 <input type="checkbox"/>
U.S./Nevada Constitution	3 <input type="checkbox"/>	PHYS 100	3 <input type="checkbox"/>
		SUR 161 or 265	4 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
Humanities/ Social Science Course	3 <input type="checkbox"/>	AC 198	2 <input type="checkbox"/>
BI 101	3 <input type="checkbox"/>	BUS 110	3 <input type="checkbox"/>
BUS 108	3 <input type="checkbox"/>	CONS 114	3 <input type="checkbox"/>
CONS 121	3 <input type="checkbox"/>	CONS 230	2 <input type="checkbox"/>
CONS 205	1 <input type="checkbox"/>	CONS 290	3 <input type="checkbox"/>
		Science Course	3 <input type="checkbox"/>



ACADEMIC DEGREES

CONSTRUCTION MANAGEMENT

Bachelor of Technology

The Bachelor of Technology degree in Construction Management provides associate degree students, new students and skilled workers an educational route toward a career as a construction manager or supervisor. The 128-credit program combines knowledge in construction methods, planning and project management with business and supervisory skills. This program allows those who have completed an associate degree in construction technology to progress academically and earn a bachelor's degree. It also allows those already working in the construction field to enroll in an applicable baccalaureate degree program and expand career advancement possibilities. Students must meet with a counselor and be admitted into the program.

Salary: \$67,250–\$115,430 / year (Nevada)

Career Outlook: Average growth

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

WNC Academic Division: Technology

Total Requirements: 128 units

Business Core Requirements		18 Units
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

Program Requirements 62 Units

AC 198	Special Topics in HVAC	2
BI 101	Introduction to Building Codes	3
CADD 100	Introduction to Computer Aided Drafting	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 108	Construction Materials and Methods	3
CONS 114	Soils, Sitework, Concrete and Testing	3
CONS 116	Plumbing Principles and Methods	2
CONS 118	Construction Contract Documents	3
CONS 120	Blueprint Reading and Specification	3
CONS 121	Principles of Construction Estimating	3
CONS 205	Construction Site Safety	1
CONS 216	Structural Layout Assembly	2
CONS 230	Electrical Distribution System	2
CONS 281	Construction Planning Scheduling And Control	3
CONS 351	Advanced Project Supervision	5
CONS 451	Advanced Internship in Construction	2
SUR 161	Elementary Surveying	4
or SUR 265	Introduction to Construction Surveying	

* CONS 282 - Construction Law, will be accepted in lieu of CEE 464

General Education Requirements 48 Units

Capstone Courses	9
English/Communications Requirements	9–11
Fine Arts Requirement	3
Humanities Requirement	3
Mathematics and Science Requirements	15
Social Sciences Requirement	6
U.S. and Nevada Constitution Requirements	3–6

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

Bachelor of Technology in Construction Management Admission Requirements

To be accepted into the program, a student must:

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

Within the 45 units:

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

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

OR:

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

2. Meet with a WNC counselor.

CONSTRUCTION MANAGEMENT - Suggested Course Sequence

FIRST SEMESTER	Completed	FIFTH SEMESTER	Completed
U.S./Nevada Constitution	3 <input type="checkbox"/>	Math/Science Course	3 <input type="checkbox"/>
CONS 108	3 <input type="checkbox"/>	CEE 411	3 <input type="checkbox"/>
CONS 120	3 <input type="checkbox"/>	CEE 462	3 <input type="checkbox"/>
ECON 102	3 <input type="checkbox"/>	CONS 351	5 <input type="checkbox"/>
ENG 101	3 <input type="checkbox"/>	MGT 323	3 <input type="checkbox"/>
MATH 126	3 <input type="checkbox"/>		
		SIXTH SEMESTER	Completed
SECOND SEMESTER	Completed	Capstone Course	3 <input type="checkbox"/>
English/Comm Course	3 <input type="checkbox"/>	Social Science Course	3 <input type="checkbox"/>
BI 101	3 <input type="checkbox"/>	CEE 463	3 <input type="checkbox"/>
CADD 100	3 <input type="checkbox"/>	CONS 451	2 <input type="checkbox"/>
CONS 114	3 <input type="checkbox"/>	MGT 367	3 <input type="checkbox"/>
ECON 103	3 <input type="checkbox"/>		
MATH 127	3 <input type="checkbox"/>	SEVENTH SEMESTER	Completed
		Capstone Course	3 <input type="checkbox"/>
THIRD SEMESTER	Completed	Fine Arts Course	3 <input type="checkbox"/>
CONS 116	2 <input type="checkbox"/>	Social Science Course	3 <input type="checkbox"/>
CONS 216	2 <input type="checkbox"/>	CEE 465	2 <input type="checkbox"/>
CONS 281	3 <input type="checkbox"/>	CEE 466	2 <input type="checkbox"/>
ECON 261	3 <input type="checkbox"/>		
PHYS 100	3 <input type="checkbox"/>	EIGHTH SEMESTER	Completed
SUR 161 or SUR 265	4 <input type="checkbox"/>	Capstone Course	3 <input type="checkbox"/>
		English/Comm Course	3 <input type="checkbox"/>
FOURTH SEMESTER	Completed	Humanities Course	3 <input type="checkbox"/>
Math/Science Course	3 <input type="checkbox"/>	CEE 464	2 <input type="checkbox"/>
AC 198	2 <input type="checkbox"/>	CEE 495	3 <input type="checkbox"/>
ACC 201	3 <input type="checkbox"/>		
CONS 118	3 <input type="checkbox"/>		
CONS 121	3 <input type="checkbox"/>		
CONS 205	1 <input type="checkbox"/>		
CONS 230	2 <input type="checkbox"/>		



ACADEMIC DEGREES

Bachelor of Technology in Construction Management General Education Course List

Capstone Course-9 units. Choose from:

Communication: 412 Economics: 334, 365
Construction Management: 456 Management: 462, 469

English/Communications Requirements-9-11 units. Choose from:

Business: 107, or English: 100 or 101
Communication: 101 or 102 or 113 or 213 English: 102

Fine Arts Requirement-3 units. Choose from:

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

Humanities Requirement-3 units. Choose from:

Core Humanities: 201, 202
English: 200, 223, 243, 250, 252, 261, 266, 267, 271, 275
History: 105, 106, 207, 247
Philosophy (except for PHIL 102, 105, 114)

Mathematics and Science Requirements-15 units. Choose from: *a minimum of 5 units in mathematics and 7 units in science.*

Mathematics	Science
Mathematics: 126 & 127, 128 or higher	Chemistry: 100, 121, 201
Statistics: 152	Environmental Studies: 100
	Geology: 100, 101, 103
	Physics: 100, 151, 180

Social Sciences Requirement-6 units.

3 units must be an upper division course (300-400 level, see a counselor).

Choose lower division from:
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 units. 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)

CONSTRUCTION TECHNOLOGY

Certified Inspector of Structures - State of Nevada

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

Salary: \$52,700-\$80,690 / year (Nevada)

Career Outlook: Inspectors rarely are laid off when the economy slows down.

WNC Academic Division: Technology

Total Requirements: 10 units

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

BACHELOR OF TECHNOLOGY - CONSTRUCTION MANAGEMENT Mission & Outcomes

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

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

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



ACADEMIC DEGREES

CRIMINAL JUSTICE PROGRAM

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

Two-year associate degrees include:

- Criminal Justice
- Criminal Justice Transfer Program
- Law Enforcement/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.

Information 775-445-4282



ASSOCIATE OF APPLIED SCIENCE - CRIMINAL JUSTICE

Mission & Outcomes

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

Student Learning Outcomes: Students who complete Associate of Applied Science in Criminal Justice are expected to demonstrate that they

- Meet the general education requirements of WNC
- Maintain the proper attitude for law enforcement
- Articulate the legal requirements of search and seizure
- Recognize and evaluate criminal law
- Process crime scenes
- Demonstrate the difference between juvenile and adult crime
- Analyze theories for committing crime

CRIMINAL JUSTICE

Associate of Applied Science

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

Salary: \$45,770–\$76,590 / year (Nevada)

Career Outlook: Average growth

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

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

Total Requirements: 60 units

Core Requirements		21 Units
CRJ 101	Introduction to Criminal Justice I	3
CRJ 102	Introduction to Criminal Justice II	3
CRJ 103	Communication Within the Criminal Justice Field	3
CRJ 164	Principles of Investigation	3
CRJ 220	Criminal Procedures	3
CRJ 230	Criminal Law	3
CRJ 270	Introduction to Criminology	3

Program Requirements 15 Units

Choose 6 units from the following:

CRJ 106	Introduction to Corrections	3
CRJ 155	Juvenile Justice System	3
CRJ 211	Police in America	3
CRJ 225	Criminal Evidence	3
CRJ 265	Introduction to Physical Evidence	3

Choose 9 units from the following:

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

General Education Requirements

General Education Requirements		24 Units
English/Communications Requirement: Recommended: ENG 101		
Must be a writing course		3
Humanities/Social Science Requirements: Humanities Course Required		3
Mathematics Requirement		3
Science Requirement		3
U.S. and Nevada Constitution Requirements		3
General Electives		9

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

Note: Students are REQUIRED to complete a POST certified course to become a law enforcement officer in Nevada. This degree does NOT replace that certification.



ACADEMIC DEGREES

CRIMINAL JUSTICE

Law Enforcement/Academy Associate of Applied Science

The Law Enforcement Academy degree 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: \$53,530–\$76,590 / year (Nevada)

Career Outlook: Average growth

Good To Know: Communication skills are important; may work weekends, holidays and nights. Good salaries and benefits. Demand is higher for detectives & investigators

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

Total Requirements: 63.5 units

Core Requirements 21 Units

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

NOTE: This course must be completed before attending the Western Nevada State Peace Officer Academy

Program Requirements 30.5 Units

CRJ 266*	Western Nevada State Peace Officer Academy	27
EMS 100	Healthcare Provider CPR	0.5
EMS 113	First Responder	3

* Spring and summer class that will fulfill the POST requirement

General Education Requirements 12 Units

English/Communications Requirement: <i>Recommended: ENG 101</i>	3
Mathematics Requirement	3
Science Requirement	3
U.S. and Nevada Constitution Requirements	3

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

Note: Documentation and current health insurance (card) required.

CRIMINAL JUSTICE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Course	3 <input type="checkbox"/>	CRJ 230	3 <input type="checkbox"/>
CRJ 101	3 <input type="checkbox"/>	CRJ 270	3 <input type="checkbox"/>
CRJ 103	3 <input type="checkbox"/>	General Education Course	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
CRJ 102	3 <input type="checkbox"/>	CRJ 266	27 <input type="checkbox"/>
CRJ 164	3 <input type="checkbox"/>	EMS 100	0.5 <input type="checkbox"/>
CRJ 220	3 <input type="checkbox"/>	EMS 113	3 <input type="checkbox"/>
General Education Course	3 <input type="checkbox"/>	General Education Course	3 <input type="checkbox"/>

CRIMINAL JUSTICE

Law Enforcement/Academy Certificate of Achievement

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

Total Requirements: 39.5 units

Program Requirements 33.5 Units

CRJ 103	Communication Within the Criminal Justice Field	3
CRJ 266*	Western Nevada State Peace Officer Academy	27
NOTE: *CRJ 103 must be taken before attending academy		
EMS 100	Healthcare Provider CPR	0.5
EMS 113	First Responder	3

* Spring and summer class that will fulfill the POST requirement

General Education Requirements 6 Units

English/Communications Requirements: <i>Recommended: ENG 101</i>	3
Mathematics Requirement	3

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

CERTIFICATE OF ACHIEVEMENT - CRIMINAL JUSTICE LAW ENFORCEMENT/ACADEMY - 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 and to take and pass the Peace Officers Standards and Training test.

Student Learning Outcomes:

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

ASSOCIATE OF APPLIED SCIENCE - CRIMINAL JUSTICE LAW ENFORCEMENT/ACADEMY - 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 WNC
- Maintain proper professional attitude for law enforcement
- Articulate the legal requirements of search and seizure
- Recognize and evaluate criminal law
- Process crime scenes
- Maintain crime scenes
- Analyze theories for committing crimes
- Are prepared to take and pass the Police Officer Standards and Training test to become deputy sheriffs, police officers, juvenile probation officers, attorney general investigators, district attorney investigators, parole and probation officers, and correctional officers



ACADEMIC DEGREES

CRIMINAL JUSTICE

Associate of Arts Transfer Degree

The Criminal Justice transfer degree 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: \$53,530–\$85,250 / year (Nevada)

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

Good To Know: Must enforce laws, gather facts & evidence; may also work with the public

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

Total Requirements: 60 units

Program Requirements		21–24 Units
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	
CRJ 164	Principles of Investigation	3
CRJ 222	Criminal Law and Procedure	3-6
or CRJ 220	Criminal Procedures	
& CRJ 230	Criminal Law	
CRJ 225	Criminal Evidence	3
CRJ 270	Introduction to Criminology	3

General Education Requirements

General Education Requirements		36–39 Units
English/Communications Requirements: <i>ENG 101&102 Required</i>		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 units 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 page.

CRIMINAL JUSTICE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
CRJ 101	3 <input type="checkbox"/>	CRJ 225	3 <input type="checkbox"/>
CRJ 106 or CRJ 211	3 <input type="checkbox"/>	CRJ 270	3 <input type="checkbox"/>
ENG 101	3 <input type="checkbox"/>	Program Electives	3 <input type="checkbox"/>
General Education Courses	6 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
CRJ 102	3 <input type="checkbox"/>	CRJ 222	3 <input type="checkbox"/>
CRJ 164	3 <input type="checkbox"/>	Program Electives	3 <input type="checkbox"/>
Program Electives	3 <input type="checkbox"/>	General Education Courses	9 <input type="checkbox"/>
ENG 102	3 <input type="checkbox"/>		
General Education Courses	3 <input type="checkbox"/>		

ASSOCIATE OF ARTS - CRIMINAL JUSTICE - Mission & Outcomes

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

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

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

CRIMINAL JUSTICE

9-1-1 Dispatch Telecommunications Certificate of Achievement

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

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

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

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

Salary: \$41,890–\$61,060 / year (Nevada)

Career Outlook: Average growth

Good To Know: Bilingual dispatchers are in great demand

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

Total Requirements: 31 – 34 units

Program Requirements		21-22 Units
CRJ 260	911 Dispatch Emergency Telecommunicator Academy	12
CRJ 101	Introduction to Criminal Justice I	3
CRJ 102	Introduction to Criminal Justice II	3
SPAN 101	Spanish, Conversational I	3-4
or SPAN 111	First Year Spanish I	

General Education Requirements

General Education Requirements		10–12 Units
English/Communications Requirements: <i>Must include writing course</i>		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 page.

CRIMINAL JUSTICE: 9-1-1 DISPATCH TELECOMMUNICATIONS Mission & Outcomes

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

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

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



ACADEMIC DEGREES**CUSTOMER SERVICE***Certificate of Achievement*

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

Salary: \$23,790–\$37,200 / year (Nevada)

Career Outlook: Faster than average growth

Good To Know: Positions are located throughout the country in various types of companies. Customer service representatives try to solve customer complaints.

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

Total Requirements: 30 units

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

Choose 6 units from the following: 6 Units

BUS 286	Developing Your Resume	1
BUS 287	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 Units

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

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

CUSTOMER SERVICE*Certificate of Completion Options*

The Customer Service Certificates of Completion allow students to choose four, eight, or all 12 units 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-unit Certificate of Achievement.

Level One: 4-unit certificate

Level Two: 8-unit certificate

Level Three: 12-unit certificate

Salary: \$23,790–\$37,200 / year (Nevada)

Career Outlook: Faster than average growth

Good To Know: Catalog and Internet retailers are expected to grow in the next ten years and expected to hire more customer service representatives.

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

Total Requirements: 4–12 units

Choose 4, 8 or 12 units from the following:

BUS 110	Human Relations For Employment	3
or MGT 212	Leadership & Human Relations	
BUS 112	Customer Service	3
BUS 113	Workplace Attitude Development	1
BUS 114	Effective Listening and First Impressions	1
BUS 115	Workplace Time Management & Goal Setting	1
BUS 116	Effective Telephone Techniques	1
BUS 118	Resolving Customer Complaints	1
BUS 119	Work Decision Making & Conflict Resolution	1



ACADEMIC DEGREES

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: \$34,220–\$49,440 / year (Nevada)

Career Outlook: Faster than average growth

Good To Know: Interpreters may be paid by the day, often by the courts or schools. New laws may require more interpreters.

WNC Academic Division: Communication and Fine Arts

Total Requirements: 60 units

Program Requirements		24 Units
AM 145	American Sign Language I	4
AM 146	American Sign Language II	4
AM 147	American Sign Language III	4
AM 148	American Sign Language IV	4
AM 151	Fingerspelling I	1
AM 152	Fingerspelling II	1
AM 153	Deaf Culture	3
AM 154	Deaf History	3

General Education Requirements

General Education Requirements		36 Units
English/Communications Requirements: ENG 101, ENG 102		6
Fine Arts Requirement: <i>Recommended: THTR 105</i>		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 page.

DEAF STUDIES - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
AM 145	4 <input type="checkbox"/>	AM 147	4 <input type="checkbox"/>
General Education Courses	12 <input type="checkbox"/>	AM 151	1 <input type="checkbox"/>
		AM 154	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	General Education Courses	6 <input type="checkbox"/>
AM 146	4 <input type="checkbox"/>	FOURTH SEMESTER	Completed
AM 153	3 <input type="checkbox"/>	AM 148	4 <input type="checkbox"/>
General Education Courses	9 <input type="checkbox"/>	AM 152	1 <input type="checkbox"/>
		General Education Courses	9 <input type="checkbox"/>

AMERICAN SIGN LANGUAGE

Certificate of Achievement

WNC Academic Division: Communication and Fine Arts

Total Requirements: 30 units

Program Requirements		18 Units
AM 145	American Sign Language I	4
AM 146	American Sign Language II	4
AM 147	American Sign Language III	4
AM 148	American Sign Language IV	4
AM 151	Fingerspelling I	1
AM 152	Fingerspelling II	1

General Education Requirements

General Education Requirements		12 Units
English/Communications Requirements: <i>Must include a writing course</i>		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 page.

AMERICAN SIGN LANGUAGE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
AM 145	4 <input type="checkbox"/>	AM 147	4 <input type="checkbox"/>
General Education Course	3 <input type="checkbox"/>	AM 151	1 <input type="checkbox"/>
		General Education Courses	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
AM 146	4 <input type="checkbox"/>	AM 148	4 <input type="checkbox"/>
General Education Courses	3 <input type="checkbox"/>	AM 152	1 <input type="checkbox"/>
		General Education Courses	3 <input type="checkbox"/>

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

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

Certificate of Achievement Mission: The mission of the Western Nevada College American Sign Language Certificate of Completion Program is to provide quality education to students, thus developing their comprehensive expressive/receptive skills in American Sign Language, fingerspelling fluency and general knowledge of deafness. Students are provided a linguistic foundation in which to enter numerous high-demand professional fields that provide services to deaf or hard of hearing people.

Student Learning Outcomes: Upon completing the Deaf Studies Associate of Arts program and/or American Sign Language Certificate of Achievement students will be able to:

- Produce basic expressive/receptive sign language communicative skills
- Demonstrate appropriate ASL linguistic and grammatical structure in signing
- Demonstrate functional language aptitude in American Sign Language
- Produce basic expressive/receptive signing of personal heredity and cultural traditions
- Produce basic expressive/receptive signing of biographic and autobiographic events
- Produce basic expressive/receptive signing of number systems - functional & abstract
- Produce basic expressive/receptive signing of major life activities and special occasions
- Demonstrate knowledge of linguistic, cultural, educational and social aspects of people who are deaf or hard of hearing
- Demonstrate basic knowledge of historical, political, audiological, educational and linguistic in relation to the history of people who are deaf or hard of hearing
- Demonstrate basic fluency in receptive and expressive pragmatics and production of fingerspelling in ASL



EARLY CHILDHOOD EDUCATION

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

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

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

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

EARLY CHILDHOOD EDUCATION

Certificate of Achievement

Salary: \$26,150-\$50,810 / year (Nevada)

Career Outlook: Slightly faster than average growth

Good To Know: Variable work hours - full-time or part-time

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

Total Requirements: 30 credits

Subject Requirements 21 Credits

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

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

General Education Requirements 9 Credits

English/Communications Requirements: Recommended: BUS 108;
Must include a writing course 6

Mathematics Requirement: Recommended: BUS 109 3

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

EARLY CHILDHOOD EDUCATION - Suggested Course Sequence			
First Semester	Completed	Third Semester	Completed
ECE 121	1 <input type="checkbox"/>	ECE 204	3 <input type="checkbox"/>
ECE 122	1 <input type="checkbox"/>	ECE 231	6 <input type="checkbox"/>
ECE 129	1 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
ECE 250	3 <input type="checkbox"/>		
Second Semester	Completed	Fourth Semester	Completed
English/Communications Course	3 <input type="checkbox"/>	ECE 240	3 <input type="checkbox"/>
General Elective	3 <input type="checkbox"/>	General Education Courses	3 <input type="checkbox"/>
HDFS 201	3 <input type="checkbox"/>	General Elective	3 <input type="checkbox"/>
		Program Electives	6 <input type="checkbox"/>
ECE 200	3 <input type="checkbox"/>		
ECE 251	3 <input type="checkbox"/>		
General Education Courses	6 <input type="checkbox"/>		
Program Electives	3 <input type="checkbox"/>		

EARLY CHILDHOOD EDUCATION

Associate of Applied Science

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: \$34,330-\$50,810 / year (Nevada)

Career Outlook: Growth for teachers will be faster than average.

Good To Know: Teachers who have advanced degrees earn the most money. Teachers can earn more money by teaching in the summer. More children will be entering preschool and kindergarten.

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

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 IS 101	Introduction to Information Systems	
or IS 201	Computer Applications	
HDFS 202	Introduction to Families	3
HDFS 232	Diversity and the Young Child - A Multicultural Perspective	3
	<i>Other related Early Childhood Education courses (ECE 123 and ECE 168 are recommended)</i>	1-6
	Psychology courses (except Statistical Methods)	3

General Education Requirements 24 Credits

English/Communications: Recommended: BUS 108; Must include a writing course	6
Humanities/Social Science Requirements	3
Mathematics Requirement: Recommended: BUS 109	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 page.

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

Associate of Applied Science

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

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

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

Certificate of Achievement

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

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

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



ACADEMIC DEGREES

ENGINEERING SCIENCE

Associate of Science

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

Salary: \$68,090–\$101,690 / year (Nevada)

Career Outlook: Average growth; employment opportunities may depend on economy and region

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

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 64 units

Program Requirements		40 Units
CHEM 121	General Chemistry I	4
CS 135	Computer Science I	3
ENGR 100	Introduction to Engineering Design	3
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
ME 241	Statics	3-4
or CPE 201	Introduction to Computer Engineering	
ME 242	Dynamics	3-4
or EE 220	Circuits I	
& EE 220L	Circuits I Laboratory	
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

Choose 2-4 units from the following:

CHEM 122	General Chemistry II	4
CS 202	Computer Science II	3
EE 291	Computer Methods For Electrical Engineers	3
EE 296	Internship I	1
MATH 285	Differential Equations	3
ME 198	Cooperative Training Report	1
ME 298	Cooperative Training Report	1
METE 250	Elements of Material Science	3
PHYS 182	Engineering Physics III	3
& PHYS 182L	Engineering Physics III Lab	1

or higher level

General Education Requirements		24 Units
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 page.

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

ENGINEERING SCIENCE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Courses	6 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
CS 135	3 <input type="checkbox"/>	MATH 283	4 <input type="checkbox"/>
ENGR 100	3 <input type="checkbox"/>	ME 241 or CPE 201	3-4 <input type="checkbox"/>
MATH 181	4 <input type="checkbox"/>	PHYS 181	3 <input type="checkbox"/>
		PHYS 181L	1 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education Course	3 <input type="checkbox"/>	General Education Courses	9 <input type="checkbox"/>
CHEM 121	4 <input type="checkbox"/>	ME 242 or EE 220 & 220L	3-4 <input type="checkbox"/>
MATH 182	4 <input type="checkbox"/>	Program Electives	2-4 <input type="checkbox"/>
PHYS 180	3 <input type="checkbox"/>		
PHYS 180L	1 <input type="checkbox"/>		

ASSOCIATE OF SCIENCE - ENGINEERING SCIENCE

Mission & Outcomes

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

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

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



ACADEMIC DEGREES

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: \$25,240–\$64,180 / year (Nevada)

Career Outlook: Slower than average growth

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

WNC Academic Division: Communication and Fine Arts

Total Requirements: 60 units

Program Requirements 27 Units

ART 100	Visual Foundations	3
ART 101	Drawing I	3
ART 141	Introduction to Digital Photography 1	3
or GRC 183	Electronic Imaging	
ART 160	Art Appreciation	3

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

ART 231	Painting I	3
ART 127*	Watercolor I	3
ART 124	Beginning Printmaking	3

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

ART 216	Sculpture I	3
ART 211	Ceramics I	3

* 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.

Select 9 units from the following:

ART 102	Drawing II	3
ART 105*	Color Theory	3
ART 111*	Beginning Ceramics	3
ART 115*	Beginning Clay Sculpture	3
ART 124	Beginning Printmaking	3
ART 127*	Watercolor I	3
ART 135*	Photography I	3
ART 141	Introduction to Digital Photography I	3
ART 142*	Introduction to Digital Photography II	3
ART 201	Life Drawing I	3
ART 208*	Fiber Arts	3
ART 211	Ceramics I	3
ART 212	Ceramics II	3
ART 216	Sculpture I	3
ART 217	Sculpture II	3
ART 218*	Alternative Sculpture	3
ART 221	Beginning Printmaking: Intaglio	3
ART 222	Beginning Printmaking: Lithography	3
ART 223	Beginning Printmaking: Serigraphy	3
ART 224	Beginning Printmaking: Relief	3
ART 227*	Watercolor II	3
ART 231	Painting I	3
ART 232	Painting II	3
ART 235	Photography II	3
ART 236	Photography III	3
ART 260	Survey Art History I	3
ART 261	Survey of Art History II	3
ART 298	Portfolio Emphasis	3
GRC 183	Electronic Imaging	3

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

General Education Requirements

English/Communications Requirements	33 Units
Humanities Requirement	6
Mathematics Requirement	6
Science Requirement	3
Social Sciences Requirement	6
U.S. and Nevada Constitution Requirements	9
	3

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

FINE ARTS - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
ART 100	3 <input type="checkbox"/>	ART 141 or GRC 183	3 <input type="checkbox"/>
ART 101	3 <input type="checkbox"/>	ART 216 or ART 221	
General Education Courses	9 <input type="checkbox"/>	(3-D Required Course)	3 <input type="checkbox"/>
		General Education Courses	9 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
ART 160	3 <input type="checkbox"/>	Art Electives	9 <input type="checkbox"/>
ART 231, ART 127, or ART 124	3 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
(2-D Required Course)			
General Education Courses	9 <input type="checkbox"/>		

FINE ARTS - Mission & Outcomes

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

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

General Education

- Have an understanding of the Fine Arts
- Have developed their problem-solving, creative, and critical thinking skills

Program Mission Outcomes

- Have developed their creative capacities
- Have participated in at least one cultural activity, such as a visit to a gallery, museum, or attended a community art lecture or event
- Have developed an appreciation for the arts



ACADEMIC DEGREES

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Associate of Applied Science

WNC's Geographic Information Systems 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: \$39,260–\$62,470 / year (Nevada)

Career Outlook: Slower than average growth

Good To Know: Use analytic & technical skills; heavy computer use

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 units

Program Requirements 36 Units

GIS 109	Introduction to Geographic Information Systems	3
GIS 110	Principles of Cartography	3
GIS 111	Introduction to Remote Sensing	3
GIS 112	Introduction to ArcInfo	3
GIS 170	GIS Applications on Conservation Issues	1
GIS 171	GIS Applications in Urban & Regional Planning	1
GIS 172	Current Trends in GIS	1
GIS 205	GIS Applications	3
GIS 212	Intermediate ArcInfo	3
GIS 235	Spatial Analysis in GIS	3
GIS 250	GIS Database	3
GIS 270	GIS Extensions	3
GIS 280	Internship in GIS	3
GIS 290	GIS Careers / Portfolio	3

General Education Requirements 24 Units

English/Communications Requirement	6
Human Relations Requirement	3
Humanities/Social Science Requirements: <i>Recommended: GEOG 106</i>	3
Mathematics Requirement: <i>MATH 126 or higher is required. STAT 152 is recommended</i>	3
Science Requirement: <i>Recommended: GEOG 103</i>	6
U.S. and Nevada Constitution Requirements	3

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

GEOGRAPHIC INFORMATION SYSTEMS (GIS) - Suggested Course Sequence			
FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Courses	6 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
GIS 109	3 <input type="checkbox"/>	GIS 171	1 <input type="checkbox"/>
GIS 110	3 <input type="checkbox"/>	GIS 212	3 <input type="checkbox"/>
GIS 112	3 <input type="checkbox"/>	GIS 235	3 <input type="checkbox"/>
		GIS 280	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education Courses	9 <input type="checkbox"/>	General Education Courses	3 <input type="checkbox"/>
GIS 111	3 <input type="checkbox"/>	GIS 172	1 <input type="checkbox"/>
GIS 170	1 <input type="checkbox"/>	GIS 250	3 <input type="checkbox"/>
GIS 205	3 <input type="checkbox"/>	GIS 270	3 <input type="checkbox"/>
		GIS 290	3 <input type="checkbox"/>

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Certificate of Achievement

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 30 units

Program Requirements 21 Units

GEOG 103	Physical Geography	3
GIS 109	Introduction to Geographic Information Systems	3
GIS 110	Principles of Cartography	3
GIS 112	Introduction to ArcInfo	3
GIS 205	GIS Applications	3
GIS 250	GIS Database	3
GIS 270	GIS Extensions	3

General Education Requirements 9 Units

English/Communications Requirements: <i>Must include a writing course</i>	3
Human Relations Requirement: <i>PSY recommended</i>	1–3
Mathematics Requirement: <i>STAT 152, MATH 126 or higher</i>	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 page.

GEOGRAPHIC INFORMATION SYSTEMS (GIS) - Mission & Outcomes

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

Student Learning Outcomes: Graduates are expected to be able to:

- identify spatial problems
- demonstrate technical skills
- implement analysis concepts
- work collaboratively
- create industry based presentations

ASSOCIATE OF APPLIED SCIENCE GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Mission & Outcomes

Mission: The Associate of Applied Science degree in Geographic Information Systems will provide employment-related knowledge and skills necessary to succeed in the Geographic Information Systems field. The degree will meet educational criteria for employment and prepare the student for possible transfer to other colleges and universities to meet higher educational and professional goals.

Student Learning Outcomes: Associate of Applied Science in Geographic Information Systems (GIS) graduates are expected to:

- identify spatial problems
- demonstrate technical skills
- implement analysis concepts
- work collaboratively and create industry based presentations



ACADEMIC DEGREES

GEOSCIENCES

Associate of Science

The Geosciences degree 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 units may be directly applied toward a baccalaureate degree. Seek counseling to choose appropriate courses for a four-year major.

Salary: \$64,210–\$101,230 / year (Nevada)

Career Outlook: Average growth

Good To Know: Often requires graduate degrees for career advancement

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 – 62 units

Program Requirements

17–18 Units

GEOG 103	Physical Geography	3
GEOG 104	Physical Geography Laboratory	1
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

Choose one course:

GEOG 106	Introduction to Cultural Geography	3
GEOG 200	World Regional Geography	3

Program Electives

13–14 Units

Choose 13-14 units from the following:

ATMS 117	Meteorology	3
BIOL 190L	Introduction to Cell and Molecular Biology Lab	1
BIOL 191L	Introduction to Organismal Biology Lab	1
ENV 100	Humans and Environment	3
ENV 130	Fundamentals of Environmental Pollution: Concepts and Methods	3
ENV 210	Land Use Management	3
ENV 292	Environmental Problems	3
GEOL 100	Earthquakes, Volcanoes, and Natural Disasters	3
GEOL 102	Earth and Life Through Time	4
GEOL 105	Introduction to Geology of National Parks	3
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
or PHYS 180 & PHYS 180L	Engineering Physics I	4
PHYS 152	General Physics II	4
or PHYS 181 & PHYS 181L	Engineering Physics II	4

General Education Requirements

30 Units

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

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

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

GEOSCIENCES - Suggested Course Sequence			
FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Course	9 <input type="checkbox"/>	General Education Courses	9 <input type="checkbox"/>
GEOL 101	3 <input type="checkbox"/>	GEOG 106	3 <input type="checkbox"/>
GEOL 103	1 <input type="checkbox"/>	Program Electives	3 <input type="checkbox"/>
Program Electives	3 <input type="checkbox"/>		
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education Course	3 <input type="checkbox"/>	General Education Courses	9 <input type="checkbox"/>
Chemistry Course	3-4 <input type="checkbox"/>	Biology Course	3 <input type="checkbox"/>
GEOG 103	3 <input type="checkbox"/>	Program Electives	3-4 <input type="checkbox"/>
GEOG 104	1 <input type="checkbox"/>		
Program Electives	3-4 <input type="checkbox"/>		

ASSOCIATE OF SCIENCE - GEOSCIENCES

Mission & Outcomes

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

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

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



ACADEMIC DEGREES

GRAPHIC COMMUNICATIONS

Associate of Applied Science

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

Salary: \$35,530–\$55,770 / year (Nevada)

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

Good To Know: Creativity is important; more talented designers can earn more.

WNC Academic Division: Communication and Fine Arts

Total Requirements: 63 units

Program Requirements		45 Units
ART 100	Visual Foundations	3
ART 101	Drawing I	3
GRC 109	Color and Design	3
GRC 118	Computer Graphics - Print Media	3
GRC 119	Computer Graphics - Digital Media	3
GRC 144	Electronic Layout and Typography	3
GRC 156	Computer Illustration I	3
GRC 175	Web Design and Publishing I	3
GRC 181	Digital Video I	3
GRC 183	Electronic Imaging	3
GRC 188	Web Animation and Interactivity I	3
GRC 283	Electronic Imaging II	3
GRC 294	Professional Portfolio	3

Choose 3 units from the following:

ART 115	Beginning Clay Sculpture	3
ART 124	Beginning Printmaking	3
ART 127	Watercolor I	3
ART 135	Photography I	3
ART 141	Introduction to Digital Photography I	3
ART 160	Art Appreciation	3
ART 211	Ceramics I	3
ART 216	Sculpture I	3
ART 231	Painting I	3
ART 260	Survey Art History I	3
ART 261	Survey of Art History II	3
GRC 281	Digital Video II	3

Choose to emphasize web or graphic design:

GRC 244	Electronic Layout and Typography II	3
GRC 275	Web Design and Publishing II	

General Education Requirements

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

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



GRAPHIC COMMUNICATIONS

Certificate of Achievement

WNC Academic Division: Communication and Fine Arts

Total Requirements: 30 units

Program Requirements		21 Units
ART 100	Visual Foundations	3
GRC 118	Computer Graphics - Print Media	3
GRC 119	Computer Graphics - Digital Media	3
GRC 144	Electronic Layout and Typography	3
GRC 156	Computer Illustration I	3
GRC 175	Web Design and Publishing I	3
GRC 183	Electronic Imaging	3

General Education Requirements

		9 Units
English/Communications Requirements: <i>writing course required</i>		3
Human Relations Requirement: <i>PSY or SOC recommended</i>		3
Mathematics Requirement		3

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

CERTIFICATE OF ACHIEVEMENT - GRAPHIC COMMUNICATIONS

Mission & Outcomes

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

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

GRAPHIC COMMUNICATIONS - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Ed Courses	3 <input type="checkbox"/>	General Ed Courses	6 <input type="checkbox"/>
ART 100	3 <input type="checkbox"/>	GRC 144	3 <input type="checkbox"/>
ART 101	3 <input type="checkbox"/>	GRC 188	3 <input type="checkbox"/>
GRC 118	3 <input type="checkbox"/>	GRC 283	3 <input type="checkbox"/>
GRC 119	3 <input type="checkbox"/>		
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Ed Courses	3 <input type="checkbox"/>	General Ed Courses	6 <input type="checkbox"/>
GRC 109	3 <input type="checkbox"/>	GRC 181	3 <input type="checkbox"/>
GRC 156	3 <input type="checkbox"/>	GRC 275	3 <input type="checkbox"/>
GRC 175	3 <input type="checkbox"/>	GRC 294	3 <input type="checkbox"/>
GRC 183	3 <input type="checkbox"/>	Program Elective	3 <input type="checkbox"/>

ASSOCIATE OF APPLIED SCIENCE - GRAPHIC COMMUNICATIONS

Mission & Outcomes

Mission: The Associate of Applied Science degree in Graphic Communications will provide employment-related knowledge and skills necessary to succeed in the graphic communications field. The degree will meet educational criteria for employment and prepare the student for possible transfer to other colleges and universities to meet higher educational and professional goals.

Student Learning Outcomes: Associate of Applied Science in Graphic Communications graduates are expected to research design problems, demonstrate technical skills, implement design concepts, work collaboratively, and perform successful presentations.



ACADEMIC DEGREES

INFORMATION TECHNOLOGY

Associate of Applied Science

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

Salary: \$58,400--\$88,800 / year (Nevada)

Career Outlook: Much faster than average growth

Good To Know: Offers broad career opportunities & room for advancement

WNC Academic Division: Technology

Total Requirements: 60 units

Program Requirements		38-39 Units
CIT 161	Essentials of Information Security	3
CIT 165	Introduction to Convergence	3
CIT 211	Microsoft Networking I	4
CIT 212	Microsoft Networking II	4
CSCO 120	CCNA Internetworking Fundamentals	4
ET 131	DC for Electronics	4
ET 132	AC for Electronics	4

Choose one course:

ET 155	Home Technology Convergence	4
ET 117	Computer Forensics	3

Choose at least 9 units from the following program electives:

AIT 101	Fundamentals of Applied Industrial Technology	4
AIT 102	Measurement Tools and Methods	2
AIT 103	Introduction to Machine Tool Technologies	2
AIT 201	Pneumatic Power Technologies	4
CIT 263	Introduction To IT Project Management	3
CIT 269	Advanced Convergence	3
CSCO 120	CCNA Internetworking Fundamentals	4
ENGR 110	Introduction to Alternative Energy	3
ET 117	Computer Forensics	3
ET 155	Home Technology Convergence	4
ET 198	Special Topics in Electronics	4
ET 200	Electronics Projects	4
ET 265	Fundamentals of Telecommunication	3

General Education Requirements

21-22 Units

English/Communications: *Recommended: BUS 107 & BUS 108:*

<i>Must include a writing course</i>	6
Human Relations Requirement	3
Humanities/Social Science Requirements	3
Mathematics Requirement	3
Science Requirement	3
U.S. and Nevada Constitution Requirements	3
General Electives	0-1

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

COMPUTER TECHNOLOGY - INFORMATION TECHNOLOGY

Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
BUS 107	3 <input type="checkbox"/>	CIT 161	3 <input type="checkbox"/>
CIT 165	3 <input type="checkbox"/>	Human Relations Course	3 <input type="checkbox"/>
CSCO 120	4 <input type="checkbox"/>	Program Elective	6-8 <input type="checkbox"/>
ET 131	4 <input type="checkbox"/>	Social Science Course	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
BUS 108	3 <input type="checkbox"/>	ET 117	3 <input type="checkbox"/>
CIT 211	4 <input type="checkbox"/>	Program Elective	6-8 <input type="checkbox"/>
CIT 212	4 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
ET 132	4 <input type="checkbox"/>	US/Nev. Constitution	3 <input type="checkbox"/>

ASSOCIATE OF APPLIED SCIENCE - INFORMATION TECHNOLOGY

Mission & Outcomes

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

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

- the subject matter appropriate to the emphasis of the degree

Are able to:

- communicate effectively and appropriately, in oral and written form
- locate, evaluate and properly utilize the tools and resources appropriate to a 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



ACADEMIC DEGREES

MACHINE TOOL TECHNOLOGY

Associate of Applied Science

The Machine Tool Technology program provides technical skills 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: \$37,400–\$53,200 / year (Nevada)

Career Outlook: Average growth. Jobs available due to difficulty finding skilled workers

Good To Know: Often work with computerized numerical control (CNC) machines

WNC Academic Division: Technology

Total Requirements: 60 units

Program Requirements		39 Units
DFT 110	Blueprint Reading For Industry	3
or CONS 120	Blueprint Reading and Specification	
MTT 105	Machine Shop I	3
MTT 110	Machine Shop II	3
MTT 230	Computer Numerical Control I	4
MTT 232	Computer Numerical Control II	4
MTT 250	Machine Shop III	3
MTT 260	Machine Shop IV	3
MATH Course *		3

* MATH 110 Recommended

Choose 13 units from the following:

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

General Education Requirements

English/Communications Requirement: <i>Must include a writing course</i>	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 page.

MACHINE TOOL TECHNOLOGY - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
DFT 110	3 <input type="checkbox"/>	Humanities/Social Science Course	3 <input type="checkbox"/>
English Course	3 <input type="checkbox"/>	MTT 230	4 <input type="checkbox"/>
Human Relations Course	3 <input type="checkbox"/>	MTT 250	3 <input type="checkbox"/>
Math Course	3 <input type="checkbox"/>	MTT 251	2 <input type="checkbox"/>
MTT 105	3 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
MTT 106	2 <input type="checkbox"/>		
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
English Course	3 <input type="checkbox"/>	MTT 232	4 <input type="checkbox"/>
MTT 110	3 <input type="checkbox"/>	MTT 260	3 <input type="checkbox"/>
MTT 111	2 <input type="checkbox"/>	MTT 262	2 <input type="checkbox"/>
MTT 261	2 <input type="checkbox"/>	Program Elective	3 <input type="checkbox"/>
Science Course	3 <input type="checkbox"/>	U.S./Nevada Constitution	3 <input type="checkbox"/>

MACHINE TOOL TECHNOLOGY

Certificate of Achievement

WNC Academic Division: Technology

Total Requirements: 30 units

Program Requirements		20 Units
DFT 110	Blueprint Reading For Industry	3
or CONS 120	Blueprint Reading and Specification	
MTT 105	Machine Shop I	3
MTT 106	Machine Shop Practice I	2
MTT 110	Machine Shop II	3
MTT 111	Machine Shop Practice II	2
MTT 230	Computer Numerical Control I	4
Related machine shop courses		3

General Education Requirements

English/Communications Requirements: <i>Recommended: BUS 108; Must include a writing course</i>	6
Human Relations Requirement	1
Mathematics Requirement: <i>MATH 110 recommended</i>	3

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

CERTIFICATE OF ACHIEVEMENT - MACHINE TOOL TECHNOLOGY

Mission & Outcomes

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

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

- 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

ASSOCIATE OF APPLIED SCIENCE - MACHINE TOOL TECHNOLOGY

Mission & Outcomes

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

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

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



ACADEMIC DEGREES

MANAGEMENT

Associate of Applied Science

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

Salary: \$57,440–\$130,060 / year (Nevada)

Career Outlook: Average growth; managers will be more likely to keep their jobs

Good To Know: Managers work in almost every industry. Computer industries, consulting firms, government agencies and businesses are major employers.

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

Total Requirements: 60 units

Program Requirements		45 Units
ACC 201	Financial Accounting	3
ACC 202	Managerial Accounting	3
BUS 101	Introduction to Business	3
or MGT 103	Introduction to Small Business Management	
BUS 273	Business Law I	3
ECON 102	Principles of Microeconomics	3
ECON 103	Principles of Macroeconomics	3
IS 101	Introduction to Information Systems	3
IS 201	Computer Applications	3
MGT 201	Principles of Management	3
MGT 212	Leadership & Human Relations	3
MGT 283	Introduction to Human Resources Management	3
MKT 210	Marketing Principles	3

Choose 9 units from the following:

BUS 101	Introduction to Business	3
ECON 261	Principles of Statistics I	3
ECON 262	Principles of Statistics II	3
FIN 101	Personal Finance	3
MGT 103	Introduction to Small Business Management	3
MGT 235	Organizational Behavior	3
MGT 247	Industrial Management	3
MKT 111	Introduction to Merchandising	3
MKT 127	Introduction to Retailing	3
MKT 262	Introduction to Advertising	3

General Education Requirements 15 Units

English/Communications Requirement: *Recommended: BUS 107 & BUS 108;*

Must include a writing course 6

Mathematics Requirement: *BUS 109 or higher level mathematics course* 3

Science Requirement 3

U.S. and Nevada Constitution Requirements 3

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

Note: See also Retail Management.

MANAGEMENT - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
ACC 201	3 <input type="checkbox"/>	Program Electives	9 <input type="checkbox"/>
BUS 101 or MGT 103	3 <input type="checkbox"/>	IS 101	3 <input type="checkbox"/>
BUS 107	3 <input type="checkbox"/>	MGT 283	3 <input type="checkbox"/>
BUS 109 or higher	3 <input type="checkbox"/>		
ECON 102	3 <input type="checkbox"/>	FOURTH SEMESTER	Completed
		BUS 273	3 <input type="checkbox"/>
		IS 201	3 <input type="checkbox"/>
		MKT 210	3 <input type="checkbox"/>
		Science Course	3 <input type="checkbox"/>
		U.S./Nevada Constitution	3 <input type="checkbox"/>
SECOND SEMESTER	Completed		
ACC 202	3 <input type="checkbox"/>		
BUS 108	3 <input type="checkbox"/>		
ECON 103	3 <input type="checkbox"/>		
MGT 201	3 <input type="checkbox"/>		
MGT 212	3 <input type="checkbox"/>		

MANAGEMENT - Mission & Outcomes

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

Student Learning Outcomes: Upon completing the AAS Management degree, students will be able to:

- Provide employment related knowledge and skills
- Know subject matter
- Understand accounting principles and their importance to the business environment
- Demonstrate managerial and personal skills
- Demonstrate oral, written, computational and computer skills
- Utilize appropriate resources to remain current in their field
- Appreciate the importance of social, ethical, legal and diversity issues



ACADEMIC DEGREES

MATHEMATICS

Associate of Science

The Mathematics degree 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: \$66,870–\$115,670 / year (United States)

Career Outlook: Slower than average growth

Good To Know: Often requires graduate degrees for career advancement; Math may be used in a variety of fields, including education, economics, finance, science, and research

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 units

Program Requirements		30 Units
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
MATH 285	Differential Equations	3

Choose 12 units 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 units of lecture and laboratory from the same subject area.

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

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

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

MATHEMATICS - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Education Courses	9 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
MATH 181	4 <input type="checkbox"/>	MATH 283	4 <input type="checkbox"/>
		Science Elective	4 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
General Education Courses	9 <input type="checkbox"/>	General Elective	6 <input type="checkbox"/>
MATH 182	4 <input type="checkbox"/>	MATH 285	3 <input type="checkbox"/>
Science Elective	4 <input type="checkbox"/>	Math elective	3 <input type="checkbox"/>
		Science Elective	4 <input type="checkbox"/>

ASSOCIATE OF SCIENCE - MATHEMATICS

Mission & Outcomes

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

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

- have met the general education student learning outcomes
- understand the content of calculus and differential equations
- are able to apply the content of calculus and differential equations at the appropriate level in mathematics, science, and engineering courses
- can succeed at their transfer institutions



ACADEMIC DEGREES

MUSICAL THEATRE

Associate of Arts

The Associate of Arts degree in Musical Theatre is designed to provide training 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. Students have the opportunity to participate in theatre productions through the Western Nevada Musical Theatre Company, which produces three to five musicals each year.

Salary: \$33,176–\$116,360 / year (Nevada)

Career Outlook: Average growth

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

WNC Academic Division: Communication and Fine Arts

Total Requirements: 64 units

Program Requirements	31 Units
MUS 121 Music Appreciation	3
or MUS 124 History of The American Musical Theatre	
or THTR 100 Introduction to Theater	
MUSA 145 Voice-Lower Division	4
THTR 105 Introduction to Acting I	3
THTR 199 Play Structure & Analysis I	3
THTR 204 Theatre Technology I	3
THTR 205 Introduction to Acting II	3

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

MUS 176 Musical Theatre Practicum	2-3
MUS 276 Musical Theatre Practicum	1-3
Piano Proficiency	

Select 4 units 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
THTR 116 Musical Theatre Dance	

General Education Requirements 33 Units

English/Communications Requirements	6
Humanities Requirement	6
Mathematics Requirement	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 page.

MUSICAL THEATRE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
Dance Elective	1 <input type="checkbox"/>	Dance Elective	1 <input type="checkbox"/>
General Education Courses	9 <input type="checkbox"/>	General Education Courses	6 <input type="checkbox"/>
MUS 176 or MUS 276	2-3 <input type="checkbox"/>	MUS 121 or MUS 124 or	
MUSA 145	1 <input type="checkbox"/>	THTR 100	3 <input type="checkbox"/>
Piano Proficiency	0 <input type="checkbox"/>	MUS 176 or MUS 276	2-3 <input type="checkbox"/>
THTR 105	3 <input type="checkbox"/>	MUSA 145	1 <input type="checkbox"/>
		THTR 204	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
Dance Elective	1 <input type="checkbox"/>	Dance Elective	1 <input type="checkbox"/>
General Education Courses	9 <input type="checkbox"/>	General Education Courses	9 <input type="checkbox"/>
MUS 176 or MUS 276	2-3 <input type="checkbox"/>	MUS 176 or MUS 276	2-3 <input type="checkbox"/>
MUSA 145	1 <input type="checkbox"/>	MUSA 145	1 <input type="checkbox"/>
THTR 205	3 <input type="checkbox"/>	THTR 199	3 <input type="checkbox"/>

ASSOCIATE OF ARTS - MUSICAL THEATRE

Mission & Outcomes

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

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

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

They are expected to be able to:

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

They should demonstrate:

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



ACADEMIC DEGREES**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. It integrates knowledge from the bio/psycho/social sciences, humanities, and is intended to prepare graduates to pass the national licensure examination (NCLEX-RN) and to function as registered nurses in diverse care settings. Upon completion of the Associate Degree Nursing Program, students will be awarded an Associate of Applied Science degree. Graduates are eligible to sit for the NCLEX-RN. The nursing program is approved by the Nevada State Board of Nursing and is accredited by the National League for Nursing Accrediting Commission, 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326, ph: 404-975-5000. Applicants are advised that eligibility for licensure may be affected by the existence of a criminal record, a history of alcohol or drug abuse, and mental or physical illness that may interfere with the practice of nursing. Applicants are encouraged to directly contact the Nevada State Board of Nursing at 1-775-687-7700 should there be a concern regarding eligibility for licensure. Applicants may also use the NSBN link found on the Nursing & Allied Health web page for information regarding how the board processes applicant information and identifies convictions/situations under which the NSBN will deny application for licensure. A limited number of qualified students are admitted as first semester students utilizing the selection criteria outlined below. The nursing program requires that pre- and co-requisite courses be completed with a grade of "C" or better (a C- or lower will not be accepted). Students admitted to the program are required to attend mandatory orientation sessions scheduled for late spring or early summer and prior to the start of classes.

**NURSING***Associate of Applied Science***Salary:** \$62,510–\$83,920 / year (Nevada)**Career Outlook:** High growth, especially in home health care & nursing homes**Good To Know:** Hospital nurses tend to earn more than nurses in doctors' offices; may include working days, nights, weekends or holidays**WNC Academic Division:** Nursing and Allied Health**Total Requirements:** 71 units**Prerequisite Courses*** 21 Units

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

or higher MATH course

PSY 101 General Psychology 3

or SOC 101 Principles of Sociology

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

First Year: Fall Semester Courses 13 Units

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 147 Health Assessment Theory 2

NURS 148 Health Assessment Laboratory 1

NURS 152 Foundations of Pharmacology in Nursing I 1

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

First Year: Spring Semester Courses 14 Units

NURS 149 Mental Health and Illness Theory 2

NURS 150 Mental Health and Illness Laboratory 1

NURS 151 Mental Health and Illness Clinical 1

NURS 153 Foundations of Pharmacology in Nursing II 1

NURS 165 Medical Surgical Nursing I Theory 3

NURS 166 Medical Surgical Nursing I Laboratory 1

NURS 167 Medical Surgical Nursing I Clinical 2

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.

Second Year: Fall Semester Courses** 12 Units

NURS 263 Nursing Care Childbearing Family Theory 2

NURS 264 Nursing Care of the Childbearing Family Laboratory 1

NURS 265 Nursing Care of the Childbearing Family 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

Second Year: Spring Semester** 11 Units

NURS 266 Pediatric Nursing Theory 2

NURS 267 Pediatric Nursing Laboratory 1

NURS 268 Pediatric Nursing Clinical 1

NURS 276 Advanced Medical Surgical Nursing II Theory 3

NURS 277 Advanced Medical Surgical Nursing II Clinical 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 may be altered. Completion of Biology 223, 224 and 251 fulfills the science general education requirement for the Associate of Applied Science in Nursing.



ACADEMIC DEGREES

ASSOCIATE OF APPLIED SCIENCE - NURSING

Mission & Outcomes

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

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

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

NURSING ADMISSION/SELECTION CRITERIA

Science GPA (BIOL & CHEM prerequisite courses)	2.0-2.49 (2)	2.5-2.99 (4)	3.0-3.49 (6)	3.5-4.0 (8)
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GPA (pre- and corequisite courses)	2.0-2.49 (1)	2.5-2.99 (2)	3.0-3.49 (3)	3.5-4.0 (4)
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(A grade of C or better is required for all pre and corequisite courses in the nursing program. A C- or lower will not be accepted.)

Academic Skills Test

1-4 points will be awarded based on test scores. (A minimum cut score of 60% is required for each subtest.)

Completion of corequisite units

3-6 (1)	7-9 (2)
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Nevada Resident: An applicant who is classified as a Nevada resident or Good Neighbor for tuition purposes at Western Nevada College at the time of application to the nursing program will be awarded one (1) point in the nursing admissions selection criteria.

Maximum Possible Points: 19

Nursing Program Application Process

Apply for admission: Apply for admission to Western Nevada College and the WNC nursing program. Applications for the next fall are available on the WNC Nursing & Allied Health web site on or after January 2. The last date for submission of an application to Admissions and Records is April 1.

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

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

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

Academic Skills Testing: Students are required to take an academic skills test as part of the application process. Visit www.wnc.edu/academics/division/nalh/ after September for specific information.

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

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



Other Important Information

- Nursing learning activities are scheduled on & off campus, days, evenings & weekends.
- Course organization requires students to have basic computer skills, including the ability to navigate various online learning programs.
- Clinical experiences take place at long-term health care facilities, acute care hospitals, clinics and day care centers
- A grade of C (75 percent) or better is required in all nursing courses to continue in the nursing program. A grade of C- or lower will not be accepted.
- Students not admitted to the nursing program must reapply to be considered for admission the following year.
- Nursing students are expected to meet the Nursing Student Essential Functions as discussed on the nursing web site.
- Documentation and currency of the following is required after acceptance into the nursing program and prior to the start of classes:
 - An acceptable physical examination, and required immunizations and tests.
 - CPR certification (card required) through the American Heart Association (Health Care Provider) or the American Red Cross (Professional Rescuer).
 - Major medical health insurance (card required).
 - An acceptable background check.

A background check is required by health care organizations. Students will be conditionally accepted into WNC's nursing program until their background check information is approved by the clinical sites. Should clinical sites not approve a student, the conditional acceptance will be withdrawn, and the student will not be admitted into the nursing program.

Drug screening may also be required by clinical sites. Students will be informed of the requirement when necessary.

Students Requesting Transfer & Re-Admission

Readmission Policy for the Nursing Program

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

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

Students seeking readmission or transfer into the nursing program will be required to demonstrate currency of knowledge and skills by passing competency evaluations for selected nursing theory and nursing laboratory courses previously successfully completed. Students may choose the option to repeat those courses, or will be required to repeat those courses if the competency examinations are not successfully passed. A score of 75% or more is required for each theory competency evaluation and a passing grade is required for selected skill competencies, including basic nursing assessment skills.

Students should contact the nursing program administrative assistant for information regarding fees and scheduling of competency evaluations. Students who withdraw from or who failed a course or courses that are related (e.g. NURS 136, 137 and 138) will be required to repeat all courses in the sequence.

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

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

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

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

CERTIFIED NURSING ASSISTANT

A certified nursing assistant class is offered through the Division of Nursing and Allied Health. The college offers NURS 130 - Nursing Assistant, a six-unit class that prepares students to take the Nevada licensing exam for certification as a nursing assistant.

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

EMERGENCY MEDICAL SERVICES

Emergency Medical Services courses are offered through the Division of Nursing and Allied Health. They include: EMS 100 - Healthcare Provider CPR, EMS 113 -First Responder, EMS 108 - EMT Basic, and EMS 112 - EMT enhanced (Intermediate). EMS courses are offered in a sequential series to prepare individuals with the knowledge and skills to assess and care for patients in an emergency or in an out-of-hospital setting. Completion of selected courses is designed to prepare students to take the National Registry Examination for EMT-Basic and the appropriate Nevada EMS certification examination for EMT Enhanced (Intermediate).

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

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

Information 775-445-3296

Immunization Requirements: /academics/division/nalh/immunizations.php

LABORATORY TECHNICIAN-PHLEBOTOMY

A phlebotomy class (LTE 110), which is offered through the Division of Nursing and Allied Health, is listed in the class schedule under the Laboratory Technician heading. The course provides students with knowledge and skills necessary to perform the collection, identification, and preservation of specimens as applied to venipuncture techniques.

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



ACADEMIC DEGREES

PHYSICS

Associate of Science

The Physics degree 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: \$56,200-\$106,400 / year (Nevada)

Career Outlook: Slower than average growth

Good To Know: Graduate degrees required for career advancement and higher salaries

WNC Academic Division: Science, Mathematics & Engineering

Total Requirements: 60 – 62 units

Program Requirements		36–38 Units
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 Units
English/Communications Requirements: <i>Recommended: ENG 101, ENG 102</i>		6
Fine Arts Requirements		3
Humanities Requirements: <i>Recommended: CH 201, CH 202</i>		6
Social Sciences Requirements		6
U.S. and Nevada Constitution Requirements		3

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

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

PHYSICS - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
General Ed Courses	9 <input type="checkbox"/>	General Ed Courses	6 <input type="checkbox"/>
CHEM 121	4 <input type="checkbox"/>	MATH 283	4 <input type="checkbox"/>
MATH 181	4 <input type="checkbox"/>	PHYS 181	3 <input type="checkbox"/>
		PHYS 181L	1 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
CHEM 122	4 <input type="checkbox"/>	General Ed Courses	6 <input type="checkbox"/>
General Ed Courses	3 <input type="checkbox"/>	MATH 285	3 <input type="checkbox"/>
MATH 182	4 <input type="checkbox"/>	PHYS 182	3 <input type="checkbox"/>
PHYS 180	3 <input type="checkbox"/>	PHYS 182L	1 <input type="checkbox"/>
PHYS 180L	1 <input type="checkbox"/>	PHYS 293	1–3 <input type="checkbox"/>

ASSOCIATE OF SCIENCE - PHYSICS

Mission & Outcomes

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

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

- have met the general education student learning outcomes.
- know conceptual and analytical fundamentals of classical and modern physics as well as electricity and magnetism.
- can succeed in their transfer institutions.



ACADEMIC DEGREES

REAL ESTATE

Associate of Applied Science in Business

The Real Estate degree 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 units completed through the Nevada Real Estate Division may be applied toward this degree as real estate electives.

Salary: \$26,880-\$74,370 / year (Nevada agents)

Career Outlook: Average growth

Good To Know: About 60 percent of real estate agents are self-employed

WNC Academic Division: Business and Computer Technology

Total Requirements: 60 units

Program Requirements		42 Units
ACC 135	Bookkeeping I	3
& ACC 201	Financial Accounting	3
or ACC 201	Financial Accounting	
& ACC 202	Managerial Accounting	
BUS 101	Introduction to Business	3
or MGT 103	Introduction to Small Business Management	
BUS 110	Human Relations For Employment	3
or MGT 201	Principles of Management	
or MGT 212	Leadership & Human Relations	
or MGT 283	Introduction to Human Resources Management	
BUS 273	Business Law I	3
ECON 102	Principles of Microeconomics	3
IS 101	Introduction to Information Systems	3
IS 201	Computer Applications	3
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 Units
English/Communications Requirement: <i>Recommended: BUS 107&108; Must include a writing course</i>		6
Mathematics Requirement: <i>RE 102, BUS 109 or higher level mathematics course</i>		3
Science Requirement		3
U.S. and Nevada Constitution Requirements		3
General Electives		3

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

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

REAL ESTATE - Mission & Outcomes

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

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

REAL ESTATE - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
ACC 135 or ACC 201	3 <input type="checkbox"/>	General Elective	3 <input type="checkbox"/>
BUS 101 or MGT 103	3 <input type="checkbox"/>	BUS 107	3 <input type="checkbox"/>
ECON 102	3 <input type="checkbox"/>	RE 102 or BUS 109	3 <input type="checkbox"/>
IS 101	3 <input type="checkbox"/>	RE 104	3 <input type="checkbox"/>
RE 101	3 <input type="checkbox"/>	RE 206	3 <input type="checkbox"/>
SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
ACC 201 or ACC 202	3 <input type="checkbox"/>	BUS 108	3 <input type="checkbox"/>
BUS 273	3 <input type="checkbox"/>	RE 199 or RE 202	3 <input type="checkbox"/>
IS 201	3 <input type="checkbox"/>	RE 201	3 <input type="checkbox"/>
MGT 201, MGT 212, MGT 283 or BUS 110	3 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
RE 103	3 <input type="checkbox"/>	U.S./Nevada Constitution	3 <input type="checkbox"/>

REAL ESTATE LICENSING PROGRAM

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

WNC Academic Division: Business and Computer Technology

REAL ESTATE

Sales License State of Nevada

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

REAL ESTATE

Broker License State of Nevada

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

REAL ESTATE - RESIDENTIAL

Appraiser Apprentice License State of Nevada

Total Requirements:		7 units
RE 101	Real Estate Principles I	3
or RE 103	Real Estate Principles II	
RE 198	Special Topics	1
RE 206	Real Estate Appraising	3



ACADEMIC DEGREES**RETAIL MANAGEMENT***Certificate of Achievement*

Western Nevada College offers a 30-unit Certificate of Achievement in Retail Management to prepare students for a career in the retail business. A retail management career incorporates buying, merchandising, promotion, management, operations, finance and computer applications.

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

Salary: \$42,780–\$99,490 / year (Nevada)

Career Outlook: Slower than average growth; strongly determined by the economy

Good To Know: Career incorporates buying, merchandising, promotion, management, operations, finance & computer applications

WNC Academic Division: Business and Computer Technology

Total Requirements: 30 units

Program Requirements		21 Units
ACC 135	Bookkeeping I	3
or ACC 201	Financial Accounting	
BUS 110	Human Relations For Employment	3
or BUS 112	Customer Service	
IS 101	Introduction to Information Systems	3
or IS 201	Computer Applications	
MGT 201	Principles of Management	3
or MGT 235	Organizational Behavior	
or MGT 283	Introduction to Human Resources Management	
MGT 212	Leadership & Human Relations	3
MKT 127	Introduction to Retailing	3
MKT 210	Marketing Principles	3

General Education Requirements 9 Units

English/Communications: *Recommended: BUS 107, BUS 108;*

Must include a writing course 6

Mathematics Requirement: *Recommended: BUS 109* 3

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



ACADEMIC DEGREES

WELDING TECHNOLOGY

Associate of Applied Science

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

Salary: \$31,760–\$48,550 / year (Nevada)

Career Outlook: Slightly slower than average growth

Good To Know: Certification required for many jobs

WNC Academic Division: Technology

Total Requirements: 63 units

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

Program Electives

Choose 4-11 units from the following:

ET 131	DC for Electronics	4
MTT 105	Machine Shop I	3
or WELD 151	Metallurgy I	
WELD 224	Welding Projects	1–6
WELD 290	Internship in Welding	1–4
WELD:	Related Welding Courses	1–3

General Education Requirements

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

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



WELDING TECHNOLOGY

Certificate of Achievement

WNC Academic Division: Technology

Total Requirements: 30 units

Program Requirements		18 Units
WELD 211	Welding I	3
WELD 212	Welding I Practice	2
WELD 221	Welding II	3
WELD 222	Welding II Practice	2
WELD 250	Welding Certification Preparation	6
Welding Elective		2

General Education Requirements

English/Communications Requirements: <i>Must include a writing course</i>	6	12 Units
Human Relations Requirement: <i>Recommended: BUS 110</i>	3	
Mathematics Requirement	3	

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

WELDING TECHNOLOGY - Suggested Course Sequence

FIRST SEMESTER	Completed	THIRD SEMESTER	Completed
BUS 107	3 <input type="checkbox"/>	DFT 100	3 <input type="checkbox"/>
Mathematics Course	3 <input type="checkbox"/>	Science Course	3 <input type="checkbox"/>
MTT 105	3 <input type="checkbox"/>	WELD 231	3 <input type="checkbox"/>
Science Course	3 <input type="checkbox"/>	WELD 232	2 <input type="checkbox"/>
WELD 211	3 <input type="checkbox"/>	WELD 250	3 <input type="checkbox"/>
WELD 212	2 <input type="checkbox"/>	WELD 290	2 <input type="checkbox"/>

SECOND SEMESTER	Completed	FOURTH SEMESTER	Completed
BUS 108	3 <input type="checkbox"/>	BUS 110	3 <input type="checkbox"/>
Humanities/Social Science Course	3 <input type="checkbox"/>	U.S./Nevada Constitutions	3 <input type="checkbox"/>
WELD 221	3 <input type="checkbox"/>	WELD 241	3 <input type="checkbox"/>
WELD 222	2 <input type="checkbox"/>	WELD 242	2 <input type="checkbox"/>
WELD 224	3 <input type="checkbox"/>	WELD 250	3 <input type="checkbox"/>
		WELD 290	2 <input type="checkbox"/>

ASSOCIATE OF APPLIED SCIENCE - WELDING TECHNOLOGY

Mission & Outcomes

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

Student Learning Outcomes: Students who complete an Associate of Applied Science in Welding Technology will be able to demonstrate:

- knowledge of the subject matter appropriate to the welding technology.
- Are able to do the following:
- acquire skills and perform tasks necessary for employment for a career enhancement in the welding field
 - present themselves effectively to a potential employer
 - effective communication and computation skills appropriate to the welding field
 - utilize appropriate resources to remain current in the welding field



SPECIAL ACADEMIC COURSES OF STUDY

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

CONTINUING EDUCATION PROGRAMS

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

Community Education

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

The department also sponsors College for Kids, an educational enrichment program to challenge youth and Senior College, offering learning experiences for senior citizens.

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

New Driver Training

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

Information 775-445-4458

www.wnc.edu/ce/drivereducation/

Specialty Crop Institute

The Specialty Crop Institute helps foster sustainable small farm agriculture. This innovative program combines classroom and on-farm learning for specialty crop production, outreach to remote and rural farmers, and collaboration with like-minded organizations to provide growers access to resources that increase their chances of success.

Information 775-351-2551
E-mail louhelaa@wnc.edu

www.wnc.edu/ce/sci/

Truck Driver School

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

Information 775-423-7565 Ext. 2224 or 775-423-5186

www.wnc.edu/ce/ats/

Workforce Development Center

The Workforce Development Centers of Western Nevada College provide educational opportunities and training solutions for business, industries and government or non-profit agencies within its vast service area. Assessment, instruction and evaluation are essential components of WNC's programs. Topics include supervisory training, industrial safety and customer service. Education and training for credit or non-credit can be delivered on-site or at WNC locations.

Carson & Douglas 775-445-4458
Fallon 775-423-5186

www.wnc.edu/ce/wdc/

CERTIFICATION & LICENSING PREPARATION

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

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

PUBLIC SAFETY TELECOMMUNICATOR

(9-1-1 Dispatch Training)

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

Information 775-445-4408

TEACHER EDUCATION PREPARATION

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

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

They may also transfer to UNR to pursue a bachelor's degree and certification in:

- Elementary Education
- Special Education/Dual (SPED/Elem)
- Secondary Education (Middle/High School)

WESTERN NEVADA STATE PEACE OFFICER ACADEMY

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

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

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

Information 775-445-4408

www.wnc.edu/post/

FRONT COVER- TOP: (L-R) Lorena Cedano and Katherine Urrutia;
Agustin Arroy in Machine Tool class.

BACK COVER- TOP: Tyler Parnell; Sienna Smith-Sager

INSIDE COVER- TOP: Mary Acosta-Lynch.





We will help you in every way we can to make your transition to college as easy as possible. Be sure to complete this

CHECKLIST TO SUCCESS:

- APPLY FOR ADMISSION
- TAKE PLACEMENT TESTS
- MEET WITH A COUNSELOR
- APPLY FOR FINANCIAL AID
- REGISTER FOR CLASSES
- ATTEND AN ORIENTATION
- PAY BY THE DEADLINE

INFORMATION

775-445-3000 • www.wnc.edu

the right choice - www.wnc.edu

