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MISSION & GOALS

Western Nevada Community College is a public, open admission college dedicated to providing affordable, quality educational opportunities for those residing in our seven-county service area. Our students come from a variety of social, ethnic, and economic backgrounds and vary in their reasons for attending our college; some are the first in their family to attend college while others hold post-graduate degrees. Western Nevada Community College welcomes all who desire the opportunity to learn. The strength of our college emanates from its diversity, and we affirm the right of all to pursue and disseminate knowledge free of discrimination and prejudice. All members of the college community—faculty, support staff, and administrators—are committed to the values of free and unfettered inquiry; tolerance of, and respect for, difference; the nurturing of human potential; good citizenship; and civility. These values are reflected in all of the college's policies and practices.

Our college is committed to providing students convenient access to its many educational offerings. In addition to two rural campuses and one urban campus, the college has outlying centers in several small communities and uses distance education to bring our educational programs to those unable to travel to a center or campus.

To achieve the educational goals of our college, we have hired faculty, both full-time and part-time, dedicated to the proposition that students come first. These teachers have committed their lives to the art of teaching and advising students. Our faculty are master teachers who are engaged in professional activities that allow them to bring practical experiences as well as the latest research in their disciplines to their instruction. Student learning, both in and out of the classroom, is enhanced by a variety of services provided by academic support services, student services, and administrative services.

The thrust of our curriculum is to meet the educational goals of as many of our students as possible. We offer certificates and degrees that prepare students to transfer to other institutions of higher education as well as allow them to enter into a range of occupations. Across all areas of the curriculum, courses and programs are designed to provide bridges of opportunity over which students can travel from where they have been educationally to where they are capable of going. But above all, the faculty strive to foster within all our students the desire to pursue knowledge as an end in itself and to continue this pursuit for a lifetime.

Our college is also firmly grounded in community involvement. As an institution, WNCC is an important resource for the community and strives to provide both culturally enriching and intellectually stimulating activities and events that are open to all members of our community.

Our commitment to our mission is illustrated in our major goals:

1. Our primary goal is to prepare students to achieve their educational goals, in order that they might deal effectively with the challenges that they will face in their lives, whether the challenges are within their professional or personal lives or occur as a result of social and technological changes. To accomplish this goal, our college pledges to:
 - Offer an array of affordable and convenient learning opportunities, ranging from short courses to degrees, to the greatest number of people within our service area.
 - Strengthen the curriculum of the college so that students who complete degrees or specialized training will acquire the knowledge, attitudes, and skills they need to be successful in their personal and professional lives.
 - Work with individuals to help them identify their strengths, areas where they need additional work and to provide them with the skills that will allow them to function effectively in college courses.
 - Provide instruction that contributes to a student's personal, social, and intellectual growth by fostering the abilities to speak and write effectively; to think critically and solve problems; to reason mathematically and apply computational skills; to locate and evaluate information resources; and to appreciate the arts and the humanities.
 - Promote the values of work and civic involvement by participating in the decision making and problem solving processes at the local, regional, state, national, and international levels.
2. We seek to be a positive force in the effort of both private and public enterprises to strengthen the economy in our service region. To meet this goal we plan to continue to provide a wide range of occupational courses, certificates, degrees, and support services tailored to meet the needs of students and employers in our service area.
3. We are committed to serving our community by:
 - Providing opportunities for thoughtful consideration of important social topics and complex issues.
 - Sponsoring and hosting events that support both the visual and performing arts.
 - Working with other groups to encourage the development of the arts.
4. We strive to create a comfortable environment conducive to learning at every college campus and center by continually updating and modernizing the physical facilities and the services offered at all locations.
5. We are committed to structuring all of the college's administrative and support services to effectively and efficiently support instruction.
6. We strive to offer a broad array of academic support services and student services crafted to aid students at each step of their progress through our institution, from college application through graduation and beyond.

AFFIRMATIVE ACTION POLICY - WNCC is committed to a policy of affirmative action/equal opportunity employer and values diversity in its student population and work force and does not discriminate on the basis of race, creed, color, age, religion, sex, sexual orientation, national origin, disabilities or veteran's status in the programs that are offered, in the activities sponsored, and in employment. The college has procedures to resolve complaints of alleged discrimination. For additional information, contact the college Affirmative Action Officer.

Founded in 1971, Western Nevada Community College is a public two-year comprehensive community college serving the people of the seven western counties of the Silver State. This catalog offers prospective and current students, as well as the faculty, staff, and friends of Western Nevada Community College information about its curriculum, faculty, and general educational environment. It provides descriptions of programs, courses, requirements, policies, and services. Over the course of the year that this catalog is in use, a number of changes will take place. These may include the elimination, cancellation, or reduction of courses, programs or services for financial, curricular or administrative reasons. Information about these changes will be disseminated to the public as appropriate. All provisions contained in this publication are subject to change without prior notice and do not constitute a contractual agreement of any kind. The college also retains the right to set enrollment limits for specific courses and programs of study, to change fees during a student's period of enrollment, or to require a student to withdraw from the institution for cause at any time.

Western Nevada Community College is accredited by the Northwest Commission on Colleges and Universities. Documents detailing accreditation approval are available at the WNCC library.

A Message From the President

Welcome to Western Nevada Community College! It is a pleasure to provide you with this catalog, to help you plan your educational road map at WNCC. You will find many outstanding academic programs designed to prepare you for a successful career, transfer to a baccalaureate program, or lifelong learning opportunities.

This information includes the course requirements for each certificate and degree program, the college calendar for the coming academic year, and the names and qualifications of WNCC faculty and staff who can assist you as you pursue your educational goals.

We are very proud of our college, which includes three beautiful campuses and many teaching centers across our 18,000-square-mile service area. Our faculty and staff offer a personal touch to each student, whether it is in small classes which allow discussion and interaction, or in distance learning and internet courses to accommodate your job schedule and family needs. We also work continually to update our equipment and facilities to provide top notch learning tools and technology.

Our talented faculty have developed academic programs which combine critical thinking skills with tolerance and respect for differences of opinion, and stress the values of good citizenship. We continually strive to determine appropriate learning outcomes for our students, communicate in an effective manner, and assess ourselves to ensure that the services we provide are of the highest quality.

Our faculty, staff and administrators are strongly committed to helping you to reach your academic goals in a positive and student-centered environment.

In summary, I believe Western will offer you the right combination of high tech and high quality in a friendly environment. Congratulations on your choice of a quality college experience, and best wishes for a successful and fulfilling academic future.

Dr. Carol A. Lucey, President

COLLEGE CALENDAR

SUMMER 2004

Monday, July 5 Independence Day holiday-college closed
 Friday, August 6 Summer session ends

FALL 2004

Monday, April 19 Fall registration begins
 Thursday, August 19 Faculty return for fall semester
 Monday, August 30 Fall classes begin
 Monday, September 6 Labor Day holiday-college closed
 Friday, September 10 Last day to add full-semester classes
 Friday, October 29 Nevada Day holiday-college closed
 Monday, November 1 Last day to apply for fall graduation
 Thursday, November 11 Veteran's Day holiday-college closed
 Wednesday, November 24 .. Instructional holiday-no classes
 Thursday, November 25 Thanksgiving Day holiday-college closed
 Friday, November 26 State holiday-college closed
 Mon.-Sun., Dec. 13-19 Final examinations
 Friday, December 17 Fall semester ends

SPRING 2005

Monday, November 29 Spring registration begins
 Monday, January 10 Faculty return for spring semester
 Monday, January 17 Martin Luther King holiday-college closed
 Monday, January 24 Spring classes begin
 Friday, January 28 Last day to add full-semester classes
 Monday, February 21 President's Day holiday-college closed
 Mon.-Sun., March 21-27 Spring break-no classes
 Tuesday, March 1 Last day to apply for spring graduation
 Mon.-Sun., May 16-22 Final examinations
 Friday, May 20 Spring semester ends
 Monday, May 23 Commencement - Fallon
 Tuesday, May 24 Commencement - Carson

SUMMER 2005

Monday, June 13 Summer session begins
 Friday, August 5 Summer session ends

JULY 2004

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A GROWING COLLEGE

Western Nevada Community College is a vital and growing member of Nevada's higher education system. Since opening its doors in 1971, WNCC has been dedicated to providing a wide range of educational opportunities to the people of western Nevada.

In Carson City, students study in a contemporary classroom and laboratory complex on the edge of the beautiful Sierra Nevada mountains, overlooking the state capital. Students also enjoy two technology centers for programs in engineering technology, computer networking, graphic design, geographic information systems, drafting, electronics and construction technology.

In Fallon, 60 miles east, the college operates an attractive full-service campus serving Nevada's agricultural heartland. Students study in college facilities as well as other convenient locations. Students can complete the first two years of a university transfer program and enroll in occupational courses to increase job skills while earning a certificate and degree.

In Minden/Gardnerville, WNCC students enjoy a classroom/laboratory building in a spectacular, pastoral setting for the growing population in that area. The Douglas campus provides students the opportunity to enroll in day or evening developmental, general education, occupational, and personal interest courses.

To meet the educational needs of Nevadans living throughout the college's seven-county, 18,000-square-mile area, WNCC also operates instructional centers in Fernley, Hawthorne, Lovelock, NAS Fallon, Smith Valley and Yerington. With the increased delivery of video and web education, students living in those service areas should be able to complete a degree program in their own community.

A PROFESSIONAL, CARING STAFF

THE FACULTY AND ADMINISTRATION

The faculty and administration at Western Nevada Community College are firmly committed to community colleges and their mission. Faculty have been hired for their strong ability to teach and their concern for students, as well as for their superlative professional backgrounds. Diverse academic and occupational experiences characterize the full-time faculty members and administrators at WNCC. They hold advanced degrees from universities across the United States and beyond, and have experience in everything from accounting and sociology to engineering and web technology.

In addition to this core group, the college also employs some 400 adjunct faculty each semester. These professionals are an integral part of WNCC's total educational effort. They bring students valuable, up-to-date experience in such areas as business management, computer technology, law, construction technologies, sciences, health care, and recreation. It is with their interests and expertise that WNCC can more effectively "fine tune" its curriculum each semester to meet the specialized needs and interests of the communities it serves.

THE STAFF

In addition to its professional staff, WNCC employs highly skilled administrative faculty, office managers, secretaries, library assistants and technicians who help keep the college operating smoothly on a day-to-day basis.

A PLACE OF OPPORTUNITY

Students enter college with different goals and expectations. WNCC offers a diverse curriculum which is flexible and tailored to meet those individual needs. By offering a variety of degree and certificate programs, scheduling classes at convenient times of the day or evening, and providing small class sizes and one-on-one counseling opportunities, WNCC helps to ensure students a positive and successful college experience.

Privacy Notice & Request for Confidential Status of Directory Information

In accordance with institutional policy and the U.S. Family Education Rights and Privacy Act of 1974 (FERPA), Western Nevada Community College vigorously protects the privacy of student education records. The institution does not release private records of individual students, such as grades and class schedules, without prior written consent of the student.

As permitted under federal law, the sole exception to the above practice is the release of "directory" information considered to be public in nature and not generally deemed to be an invasion of privacy. At Western Nevada Community College, the following categories are defined as "directory" information: student name, city, state, residency status, full-time/part-time status, graduation date, major/degree, academic honors and whether currently enrolled.

Students have the right to request non-disclosure of directory information. If they do not restrict release of this information, it is probable that the information will be released or disclosed. Western Nevada Community College uses directory information for non-commercial, educational purposes, such as to mail notices to students about changes in policies, services, or opportunities. Directory information may also be provided for commercial purposes to businesses affiliated with the institution, honor

- ☐ Do not disclose my information for commercial purposes.
- ☐ Do not disclose my information for non-commercial, educational purposes.
- ☐ Do not disclose my information for both commercial and non-commercial purposes.

The authorization can be mailed, faxed or delivered in person to Admissions and Records. This request will apply permanently to your record, even following graduation, until you choose to reverse it by submitting a written authorization to Admissions and Records.

societies, the alumni association and foundation, or other individuals for purposes that may be beneficial to students. The institution exercises discretion in responding to requests for directory information and may or may not provide such information when requested, depending on the intended purpose of the request. The institution does not sell or rent student information for a fee.

It is important to consider carefully the potential consequences of restricting the release of directory information. If a student restricts release for non-commercial educational purposes, the institution will be unable to place the student's name in publications such as honors and graduation programs; to confirm graduation and dates of attendance to potential employers; to verify enrollment with organizations such as insurance companies; or to send notifications about specialized scholarships without the express written authorization of the student.

If, after due consideration, you wish to restrict the release of directory information, complete this form and submit it to the Office of Admissions and Records. This directive will apply permanently to your record until you choose to reverse it by submitting a written authorization.

Printed Name _____

Student ID _____ Date _____

Signature _____

ENROLLMENT

ADMISSIONS

Western Nevada Community College maintains an "open door" admissions policy. Any adult who can benefit from its instructional offerings is invited to enroll for classes at WNCC. Further, there are no pre-admissions standards and the college does not require applicants to furnish transcripts from previous educational experiences. Prior to enrollment, however, please see the section on advanced standing admission.

Any U.S. citizen, immigrant or qualified international student who is: (1) at least 18 years old, or (2) a high school graduate, or (3) who has completed the General Education Development (GED) test with a 12th grade equivalency may enroll in any of the general programs offered by WNCC. ... This admission however, only ensures general enrollment at the college and does not necessarily certify admittance into specific programs or particular courses.

For information regarding enrollment in any of the college's programs, or for details about registration procedures at WNCC, prospective students should contact the Admissions Office on the Carson City campus, Fallon campus, Douglas campus or the college web site at www.wncc.edu.

ADMISSION TO THE ALLIED HEALTH PROGRAMS

The college offers education in Associate Degree Nursing, with an optional exit for Practical Nursing, and a Certificate of Achievement in Surgical Technology. Admission to these programs are limited and require special application procedures. Applications may be obtained from Admissions and Records or the information desk at WNCC Carson City, the main offices at WNCC Fallon and WNCC Douglas, or outlying teaching centers. Applications are also available on the college's web site.

ADVANCED STANDING ADMISSION

Students who have earned credits from institutions which are accredited by one of the six regional accrediting associations may be eligible for advanced standing. Enrolled students with previous post-secondary education and training must submit a "Petition for Evaluation" to the Admissions Office and must request official transcripts from each institution attended to be sent to the Office of Admissions and Records on the Carson City campus. Transcripts received become property of Western Nevada Community College and will not be released to any other party.

It is the student's responsibility to have official transcripts mailed. Each student filing a petition for evaluation will be informed by letter concerning the acceptance of his/her transfer credits. Students receiving financial aid and/or veterans educational benefits must petition for an evaluation of previous training and education during their first semester of enrollment. A maximum of 45 transfer credits may be allowed toward an associate degree.

CONCURRENT REGISTRATION

A student who plans to enroll for one or more courses at another school while enrolled at WNCC should consult with a counselor prior to enrollment. The counselor will help the student select courses at the other school as they relate to degree requirements at WNCC. Courses taken at another school must be transferred and evaluated for credit if the student wishes to use them in meeting WNCC degree requirements. Veterans, international students, and students receiving financial aid must indicate to the appropriate agency which institution is the school of primary enrollment.

EARLY ADMISSIONS

The college permits enrollment for those not yet 18 years old. High school juniors and seniors may enroll with written permission of their high school principal.

High school students below junior level, when identified as academically talented by the school district and recommended by the high school principal, will be reviewed on a case by case basis for enrollment status in credit courses. Otherwise, high school students below the junior level may enroll ONLY in Community Education and College for Kids courses.

INTERNATIONAL STUDENT ADMISSION

WNCC is authorized under federal law to enroll nonimmigrant alien students. Enrollment limitations differ with respect to the type of visa a student holds. It is the student's responsibility to learn and adhere to United States immigration regulations that pertain to their particular visa. Contact the Office of Admissions and Records on the Carson City campus for information.

Persons wishing to apply for an F-1 Student Visa, either as an initial applicant or to change their existing visa status to F-1, must apply with the Admissions and Records office for an I-20 Certificate of Eligibility, international student application packet and complete list of admission requirements. Students who have been approved will be issued the I-20 document with which they may then apply for a Student Visa.

Applicants for the I-20 Certificate must complete and file the following documentation with the Office of Admissions and Records at least eight weeks prior to the beginning of the semester or summer session in which they intend to begin their study:

1. A completed Application for Admission and Affidavit of Responsibility.
2. Affidavit of Support and copies of bank statements documenting the required funds for support.
3. Results of the Test of English as a Foreign Language (TOEFL) with a score of 500 or higher.
4. Official evidence of an educational-level equivalent to graduation from an accredited American high school.
5. Applicants already attending a school in the United States on a student visa must arrange to have their school send their official transcript to WNCC Office of Admissions and Records. In addition, an approved Transfer Verification must be sent from that school to the foreign student advisor with a copy of the I-20 issued to the student there.
6. Students approved for the I-20 by WNCC must arrange for and provide their own health insurance for the duration of their studies.

ENROLLMENT

A student will be considered for admission only after all required documentation has been received.

To enroll for classes, approved international students must report to the Office of Admissions and Records with current passport, visa, I-94 (port of entry document), and the I-20 if one has been issued. After all documentation has been reviewed, students must meet with an advisor in Counseling Services, and may be required to take an English placement test before registering. Based on results of the test, the student may be required to take additional English language courses during the first semester on campus.

Students holding F-1 and J-1 visas must be aware of the following regulations:

1. Enrollment in a full course of study is required for each semester during the student's entire program of study. At WNCC, 12 credits constitutes a full course of study.
2. Financial obligations must be met in a timely manner.
3. Employment may not be accepted without prior authorization from Admissions and Records and the Immigration and Naturalization Service. Students on these visas, even when authorized, may not work more than 20 hours per week during the school semester.
4. Address and phone number information must be kept up to date with the Office of Admissions and Records and the Immigration and Naturalization Service.
5. Passports and I-20s must be kept up to date.
6. A tax return must be filed yearly.
7. Students must provide health insurance for the duration of their studies.

It is the student's responsibility to contact the Office of Admissions and Records for detailed information regarding any and all of the above information.

The Student Services division at WNCC provides information and advisement to international students at the college. It is the intent of Western Nevada Community College to foster interaction between international students and Americans, as well as to help develop greater awareness and understanding of cultural diversity.

RESIDENCY INFORMATION - (Refer to Page 142)

Admissions and Records

Room 101, Bristlecone Building, Student Services Lobby

(775) 445-3277

E-mail: wncc_aro@wncc.edu

REGISTRATION

Registration at WNCC is done by Internet. Registration is available at

www.wncc.edu/student_services
follow the instructional prompts

ADD OR DROP A CLASS

ADDING: A student may add a class or change class section by the Internet up to the close of the registration period. Fees are due at the time of registration.

DROPPING: A class may be dropped by the Internet at any time prior to the last day of instruction. Students dropping classes should refer to the refund schedule found in the "Fees and Other Costs" section of this publication for the amount of refund due. After that date, exceptions may be made by the Office of Admissions and Records for individual cases involving illness, accident or emergencies.

AUDITING A CLASS

Auditing a class is a process in which a student pays the fee, attends class sessions, receives all the instruction, and generally does the assignments and the work of a regularly enrolled student. However, he/she does not receive a grade or credit. The auditor is not required to take examinations. The last semester date to change credit to audit, or audit to credit, is the end of the eighth week of classes for a 16-week semester.

CANCELLATION OF CLASSES

Western Nevada Community College reserves the right to cancel classes in which there is insufficient enrollment. Refund checks for canceled classes are prepared and mailed biweekly by the Business Office.

CHANGE OF NAME, ADDRESS, EMPHASIS

A student may report a change of name, and/or emphasis on the Admissions Office website. Students may change their address in WebREG. Students are encouraged to keep information up to date to ensure receipt of correspondence, refund checks and to aid in proper academic advisement. Students who file a name change must present required documentation.

COURSE LOAD

The number of classes taken by a student makes up the total credit load. The load of a student receiving veterans benefits or financial assistance may have restrictions which affect the classes that apply to his/her course of study. Full-time students are defined as those who carry 12 or more credits (6 or more credits for summer); three-quarter-time students carry 9-11 credits; half-time students carry 6-8 credits.

Western Nevada Community College does not permit students to enroll for more than 18 credits per semester (only 12 credits are allowed in summer term) without permission of the relevant dean.

Students should be aware that according to the Northwest Commission on Colleges and Universities guidelines, a three-credit lecture class requires three hours of class time per week; a one-credit lecture class usually requires one hour of class time per week. A one-credit laboratory class usually requires three hours of class time per week.

PROGRESS TOWARD GRADUATION

PROGRESS TOWARD GRADUATION

ATTENDANCE

Students are expected to attend all classes for which they have registered. The instructor may drop any student when the student has had an excessive number of absences as identified in the course syllabus. (In general, if a student misses a number of hours greater than the number of credits to be earned in the course, this may be considered excessive.)

CREDIT - STUDENT INVOLVEMENT

The Northwest Commission on Colleges and Universities requires that each college credit entail 40 - 45 hours of student involvement (seat time plus outside assignments). The following table shows how this determines the amount of student involvement for credit courses for the most commonly used number of credits.

Number of Credits in a Course	Amount of Student Involvement
.5	20 - 22.5 hours
1.0	40 - 45 hours
2	80 - 90 hours
3	120 - 135 hours
4	160 - 180 hours
5	200 - 225 hours
6	240 - 270 hours

CREDIT - BY EXAMINATION

A maximum of 30 credits, accumulated through an acceptable credit by examination process, will be accepted toward degree requirements. A maximum of 15 credits in a single subject area is allowed. A student must be currently enrolled and have completed coursework for credit at WNCC before credit by examination will be placed on an official academic transcript.

CHALLENGE EXAMINATIONS: The college recognizes that students accumulate a great deal of information outside the classroom without formal instruction. There are times when this information may be extensive enough to satisfy the requirements of courses offered by the college. For this reason, an enrolled student may take challenge examinations in certain courses.

A student interested in these examination procedures should consult the Office of Admissions and Records on the Carson City campus or a counselor on the Fallon campus. Policies relating to challenges are:

- Credit may not be earned in a course which covers, at an elementary level, the subject matter of a more advanced course, determined by the instructor, for which the student has already received credit.
- A student enrolled in a more advanced course may not challenge a lower level course in the same subject area.
- Credit earned in challenge examinations are not considered resident credit.
- Challenge examinations do not count as part of a student's credit load for any given semester nor are they computed into the grade point average.
- A student may not retake a challenge.
- A student may not challenge a course that has been previously attempted in classroom instruction.

- Challenge examinations may not transfer and, in many cases, may not count for licensing agencies.
- Successful challenge examinations are posted as a "pass" on the student's transcript.
- WNCC reserves the right to deny any petition for credit by examination.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP): Credit may be granted for the satisfactory completion of the College Level Examination Program (CLEP) general examinations.

A maximum of three semester credits may be granted for each of the five general examinations (except English) earning the below standard scores:

- Tests taken before July 1, 2001: 500 or above.
- Tests taken after July 1, 2001: 50 or above.

Students may earn three to six English credits if their test includes an essay and the following scores are earned on the examination:

- Three credits:
Tests taken before July 1, 2001: 500-639.
Tests taken after July 1, 2001: 50-74.
- Six credits:
Tests taken before July 1, 2001: 640 or above.
Tests taken after July 1, 2001: 75 or above

A maximum of three semester credits may be granted for each subject examination. Only certain examinations are acceptable; inquire at the Office of Admissions and Records for the list of approved CLEP subject examinations.

Credit granted by examination is the equivalent of a "P" (pass) grade for transcript and graduation purposes.

Credit earned by examination may not apply toward satisfying the minimum on-campus resident credit requirements.

CREDIT - MILITARY SERVICE

Registered students who are veterans and have completed more than one year of active duty may be granted credit toward their associate degree. Students desiring such credit must file a "Petition for Evaluation" and a DD214 with the Admissions Office.

PROGRESS TOWARD GRADUATION

CREDIT - NONTRADITIONAL EDUCATION

WNCC will consider awarding credit for prior experiential learning to students who have been accepted to the college. The final recommendation for awarding credit will be determined from an evaluation by a full-time academic faculty member appropriate to the area in which credit is being sought. Students should be aware that no more than 25 percent of the total credits for a certificate or degree can be based upon credits awarded for prior experiential learning and that the college will identify the credits for prior experiential learning on all transcripts. The college may accept a maximum of 15 credits from non-traditional sources to include the following:

- Military training
- Correspondence courses
- Extension courses
- Post-secondary proprietary institutions, including business colleges
- Certificate training
- Other recognized sources

The above sources must meet the minimum standards for accreditation by nationally or state recognized agencies.

Students may be required to take challenge examinations to verify knowledge. Students seeking an evaluation of non-traditional credit experiences must submit official documentation of their experiences and related course descriptions and file a "Petition for Evaluation" with the Admissions Office. Certain credits may be applicable to satisfy course requirements for occupational degrees while others may be used as elective credit for AGS and AAS degrees only.

CREDIT - TRANSFERRING

Many degree-seeking students come to WNCC with previous education which may be credited toward an associate degree or certificate at WNCC as follows:

- Students should contact a counselor concerning the transfer of credits to initiate the steps to complete a "Petition for Evaluation Form."
- A maximum of 45 semester hours of credit may be accepted from accredited colleges or universities toward an associate degree.
- A maximum of 30 semester hours of credit may be accepted from approved credit by examination programs.
- A maximum of 15 semester hours of credit may be accepted from non-traditional programs.
- A maximum of 15 semester hours of credit may apply toward a certificate.
- Students who lack fractional credits in any area(s) of general educational requirements should see a counselor.
- Grades are not transferable but may be utilized when determining eligibility for financial assistance and/or admission to special academic programs.

GRADES

The following grading policies apply to all UCCSN campuses, in addition to further specific requirements which may appear elsewhere in this chapter.

GRADES GRADE POINT VALUE

- "A" Superior 4.0
- "A-" 3.7
- "B+" 3.3
- "B" Above Average 3.0
- "B-" 2.7
- "C+" 2.3
- "C" Average 2.0
- "C -" 1.7
- "D+" 1.3
- "D" Below Average 1.0
- "D-" 0.7
- "F" Failure 0.0
- "P" Pass
- "I" Incomplete
- "X" In Progress (research projects or courses extending beyond one semester)
- "AD" Audit
- "W" Withdrawal
- "NR" Not Reported - Assigned by the Office of Admissions and Records pending faculty submission of final grade

1. The "Plus" and Minus" is a part of the grading scale of each campus. It is up to the individual faculty member to exercise this option.
2. The "F" grade is a part of the grading scale for each campus. It is up to the individual faculty member to exercise this option. Campuses may retain institutional practices related to forgiveness or academic renewal policies in which, under certain circumstances, students may repeat failed courses or disregard coursework.
3. All Withdrawals indicate that the student did not complete the course. Each campus determines the timeline for assigning the W.
4. The course syllabus shall contain a clear explanation of the grading scale to be used by the faculty member. Students may not appeal the format an instructor chooses.
5. "NR" signifies that grade was not reported.
6. "I" GRADE: An Incomplete grade may be given by the instructor when a student has completed 75 percent of the course work with a grade of at least "C," but where there is some verifiable compelling reason for the lack of completion. College regulations limit the amount of time the student has to make up assignments or examinations. The "I"(incomplete) must be made up during the following semester. Failure to do so will result in the "I" grade being changed to a "W." A student wishing to complete the work for a course in which he/she received an incomplete must make arrangements with the instructor who issued the incomplete grade. A grade change is due to the Admissions Office by the last day of the semester.

PROGRESS TOWARD GRADUATION

GRADE APPEAL: A grade appeal denotes the process for students who believe the grade that they have received for a course is incorrect. The grade appeal must be initiated no more than 30 instructional days into the following regular semester and must follow a specified process:

1. Prior to activation of the formal grade appeal process it is recommended that the student discuss his/her complaint with the instructor who issued the grade. If the student cannot reach the instructor or if the grade is not resolved by the instructor then the student must file a written intent to appeal the grade with the instructor's division office within two weeks of the grade's posting.
2. Once the written notice is filed, the student has until 5 p.m. on February 1 or on September 1 (whichever occurs immediately after the grading period in which the grade was issued) to contact the Division Chair who will set up a meeting between the student, instructor and division chair (or student and instructor if they hadn't met before).
3. If the grade appeal is still unresolved, the student must submit details in writing to the Vice President for Academic and Student Affairs who will act on the grade appeal within 15 days of being notified.
4. Within 15 days of the receipt of the written certified letter, a hearing committee made up of the Division Chair, two faculty members of the same division chosen by the Division chair, and two students chosen by the USA President will meet to hear the grade appeal. The instructor and the student who is appealing his/her grade will be invited to be present when this committee meets.
5. The written recommendation of this hearing committee will be forwarded to the Vice President for Academic and Student Affairs who will act on the grade appeal within 15 days of being notified.

HONORS PROGRAM

The WNCC Honors Program challenges students to achieve their highest academic potential. Students enrolled in any academic discipline are eligible to participate in the Honors Program.

Program benefits include:

- A chance to demonstrate your dedication to academic excellence and love of learning.
- The opportunity to work closely with your college instructors.
- Honors recognition on transcripts and upon graduation.
- Annual year-end competition for "Best Honors Project."
- High quality recommendations from college faculty for career, scholarship, or further educational opportunities.

WNCC students with a 3.0 or higher cumulative grade point average or recent high school graduates with an exit grade point average of 3.0 or higher are eligible to apply.

Students in the program earn honors credit for a course by undertaking an honors project in addition to the regular course requirements. The project is completed on a contractual basis with the individual faculty member. An honors project can be undertaken in any class at the 100 level or above, with the instructor's approval.

To receive honors credit, the student must receive a grade of "B" or better for the course and complete the contracted project to the satisfaction of the course instructor.

Honors Program participants who receive honors credit in 18 or more course units in at least six different academic disciplines and who have at least a 3.5 GPA at the time of graduation are designated as Honors Graduates.

DEAN'S LIST

Students are eligible for the Dean's List if:

1. At least 12 credits, excluding developmental credits, have been completed during the semester on the ABCD scale, and
2. The semester grade point average is 3.50 or higher.

GRADUATION WITH HONORS ASSOCIATE DEGREE

Students are eligible to graduate with honors based on completion of 45 academic credits at WNCC, excluding developmental courses.

Grade Point Average

3.90 = Summa Cum Laude

3.75 = Magna Cum Laude

3.60 = Cum Laude

Credits and grades transferred from other institutions will not apply. More information, contact the Admissions Office.

SATISFACTORY DEGREE PROGRESS

Students are expected to maintain a minimum grade point average (GPA) of 2.0 (A=4.0, B=3.0, C=2.0, etc.). Students with a GPA of 2.0 or higher are considered in good standing. Failure to maintain an overall GPA of 2.0 may result in a student being placed on academic probation. Additionally, once a student has attempted a minimum of 30 credits and has a grade point balance of negative ten (-10) grade points or below, as shown on the student's semester grade report, the student may be academically restricted and must obtain permission from Counseling Services before any future registration will be allowed. Academic probation will be removed when the student's overall GPA is 2.0 or higher.

STUDENT RECORDS

Educational records are available from the Admissions Office. The following record is retained permanently by the college:

- WNCC Student Academic Record

The following records are retained until the student's graduation or one year after last date of attendance:

- Special Examination Scores
- Military Service Documents
- Pertinent Correspondence
- Transcripts from previously attended institutions
- Advanced Standing Evaluation, including CLEP

The following records are retained five years and then destroyed:

- Application for Resident Fees
- Registration Documents
- Final Class Lists

STUDENT RESPONSIBILITIES

It is the student's responsibility to:

- Read and understand the contents of the WNCC catalog.
- Be familiar with WNCC policies and procedures.
- Be aware of all WNCC deadlines including dates of registration, refunds, and fee payment.
- Keep the college informed of changes in address, phone number and enrollment.

GRADUATION

GRADUATION

CAP AND GOWN

It is the student's responsibility to order a cap and gown at the college bookstore.

DUAL DEGREES/CERTIFICATES

A student may earn two degrees subsequently or simultaneously provided he/she:

1. Files a separate application for graduation and pays the Application for Graduation fee for each degree, and
2. Completes 15 credits in residence for each degree,* and
3. Satisfies all of the college's degree requirements. A student may earn an associate degree and a certificate of achievement subsequently or simultaneously provided he/she:
 - A. Files a separate application for graduation and pays the Application for Graduation fee for each degree and certificate, and
 - B. Completes 15 credits in residence, and
 - C. Satisfies all of the college's degree requirements.

*This means a student who wishes to earn two degrees must have at least 75 college level semester credits, 30 of which were earned in residence at WNCC. College preparatory courses with a number below 100 will not apply toward the 75 total semester credits.

REQUIREMENTS FOR GRADUATION

A student wishing to obtain an associate degree or certificate of achievement from Western Nevada Community College must have satisfied the following requirements:

1. Completed the curriculum requirements for the degree or certificate. The student may select either the catalog year under which he/she initially enrolls and completes a course or the year under which he/she will complete the curriculum requirements for a degree/certificate. Students applying to programs with selective admissions criteria must follow the catalog in effect at the time the program application is being submitted. Each Western Nevada Community College catalog is effective for the upcoming fall, spring, and subsequent summer term. In no case may students use a catalog which is more than six years old at the time of graduation. Students who fail to complete degree/certificate curriculum requirements within six years of their initial enrollment may use the next catalog in effect dating six years after the students' initial enrollment. Students who fail to earn academic credit at WNCC for two years must, upon their return, follow the requirements listed in the current catalog. If a degree or major is offered for the first time after a student has enrolled, the student may choose the catalog year in which the degree or major was first offered. Students may not use a combination of catalogs for graduation. This includes all policies and curriculum.

2. In some cases, completion of a single course may satisfy requirements in two different areas of an associate degree or certificate of achievement. Students may use a single course to satisfy a general education requirement in addition to a program, subject, core or emphasis requirement. A single course may not be used to satisfy more than one requirement listed as program, subject, core or emphasis. A single course may not be used to satisfy more than one general education requirement, except for the US/Nevada Constitution requirement.
3. Completed 15 semester college level credits at WNCC for each degree or certificate of achievement. Challenge examinations, nontraditional credit, etc., do not count as resident credit. Community Education courses and those numbered under 100 do not count for residency credit.
4. Maintained a minimum cumulative grade point average of 2.0. The grade point average for graduation must be at least a 2.0 on a 4.0 = A scale. This grade point average is calculated by combining the grade point average of all courses taken at WNCC used to fulfill the degree requirements.
5. Met all financial/library obligations. No student will be issued a degree or certificate if he/she has not met all financial/library obligations. Outstanding debts may be paid at the Business Office. Library holds can be cleared through the Library and Media Services.
6. Filed an Application for Graduation and paid the graduation fee. Each student seeking an associate degree or certificate of achievement is required to submit a completed application for graduation to the Admissions Office. This application must be accompanied by the Application for Graduation fee before processing will begin. Any applicant for graduation who fails to meet degree requirements must submit a new application and repay the application fee for a subsequent graduation date.

Deadline dates for filing graduation applications and fees are:

- Fall Semester - November 1
- Spring Semester - March 1
- Summer Session - June 1

The date of graduation that will appear on a student's diploma/certificate and permanent academic record is the last day of the semester in which all degree requirements are completed, provided the application is filed by the above dates. Missing the application deadline means a student's graduation date will be delayed until the next term.

FEES & COSTS

FEES

APPLICATION FEE

All students making initial application for admission to WNCC are charged a \$15 fee. This fee is assessed only once and is not refundable.

COMMUNITY EDUCATION COURSE FEE

Because they receive no state funding and must therefore be self-supporting, Community Education courses assess fees which may vary from the others at WNCC. Student fees cover the cost of the instructor's salary, supplies, equipment, and other overhead costs. Fees for Community Education courses may not be deferred.

DELAYED PAYMENTS

During fall and spring semesters, a student enrolling at the college's regular registration period for six or more credits may defer payment on 50 percent of the consolidated registration fee or out-of-state tuition fee. The balance must be paid no later than the Friday of the sixth week of instruction. Application fees, laboratory and special use fees, the cost for Community Education courses and the cost of textbooks may not be deferred. Students who fail to make their deferred payment on time are placed on "financial hold" by the college and are not allowed to defer fees again for one year. Failure to attend class will not release students from their obligation to pay deferred fees. A penalty fee of \$10 or 10 percent, whichever is greater, or any part thereof, will be charged against the total amount owed.

DELINQUENT ACCOUNTS

A student or former student who at the end of the sixth week of any semester has a delinquent account arising from unpaid tuition fees will automatically be placed on financial hold by the college. Students who have not repaid emergency loans or returned borrowed college property may also be placed on financial hold. Students on financial hold may not receive a transcript of record, register for courses, or be awarded a certificate or diploma at any institution of the UCCSN until the delinquent account is cleared and the financial hold removed. All delinquent accounts will be sent to collection after 90 days. The student will also be responsible for collection and legal fees.

FEE PAYMENT METHOD

Fees may be paid by MasterCard, Visa, or Discover card at most of the college's teaching centers or by Internet at www.wncc.edu. The college does not furnish counter checks and under no circumstances will it accept post-dated checks or checks altered in any way. A \$25 collection fee will be assessed for any check returned unpaid by the bank. Such checks must be made good within 10 days of the bank's notification to the student or "financial hold" procedures will be instituted.

FEE REFUNDS

The college's refund policy applies to students in all programs, and to all registration fees for withdrawal or net credit reduction, except for non-credit courses. The application fee is not refundable and cannot be transferred to another person or to another fee. Refund of fees for withdrawal from WNCC semester-long classes will be as follows:

- 100 percent if the withdrawal is completed prior to the first day of the semester.
- 90 percent if the withdrawal is completed by the end of late registration (five working days into semester).

NOTE: Community Education courses and Open Entry/Open Exit courses do not have a 90 percent refund period.

Short-term course refund policies DO NOT follow full-term guidelines. Courses that are scheduled to begin at a date different from the regular semester and/or after the beginning of the semester must be dropped prior to the first class session for a 100% refund. Once the class has started, no refund of any amount will be given. Refund checks for dropped classes are prepared and mailed biweekly. Payment will be made to the student and any other contributing agencies in proportion to the payment of the original fees made by each at the time of registration. **Drops must be made by Internet before a refund can be issued.**

Refunds after published deadlines will not be considered for reasons which are beyond the control of the college. Not attending class, job transfers, changes in work schedule, relocation, etc., will not be considered grounds for refund appeals.

Refund appeals with verifiable evidence may be granted during the first half of the semester for the following reasons: induction or activation into the armed forces; death of the student's spouse, child, parent or legal guardian; death of the student; verifiable error on the part of the college; and verifiable incapacity, illness or injury which prevents the student from returning to school for the remainder of the semester.

In general, no refund is made after the first half of the semester.

Non-resident tuition shall be refunded in conformity with this schedule.

Upon written approval from the Office of Admissions and Records, a full refund of all registration fees and tuition shall be given upon official withdrawal at any time during the first eight weeks of the semester provided one of the following circumstances has occurred:

- Induction of the student into the U.S. armed forces.
- Death of spouse, child, parent or legal guardian of a student.
- A medical problem requiring hospitalization during the semester.

GOOD NEIGHBOR TUITION POLICY

A graduate of a specifically designated high school or community college from a state bordering Nevada may be granted a reduced nonresident tuition when enrolling at WNCC. In addition, reduced nonresident tuition may also be available to an individual who lives in a specifically designated county and who has maintained legal resident status for at least 12 consecutive months prior to the first day of the semester in which enrollment is sought.

A reduced tuition policy also applies to students who are members of the Washoe Tribe of Nevada and California and who live on tribal land. Such students are authorized to attend UCCSN schools as resident students, waiving the out-of-state tuition fee.

FEES & COSTS

GRADUATION FEE

Each student who graduates with an associate degree or certificate is required to pay a \$15 graduation fee. If dual degrees or certificates are awarded at the same time, a separate fee is charged for each award.

NON-RESIDENT DISTANCE EDUCATION TUITION

A reduced non-resident tuition fee of \$24.50 per credit (regardless of the number of credits) as of fall semester 2004 will be added to the regular registration fee of \$49 per credit for students enrolling in the distance education classes.

NON-RESIDENT TUITION

Out-of-state and international students must pay an additional fee. Current fee information can be found in the course schedule. Students who plan to register for courses as Nevada residents must provide proof of residency according to the regulations of the University and Community College System of Nevada. Residency requirements are available at the Admissions Office. Community Education courses are an exception to residency requirements. They are not counted toward the "date of matriculation" for establishing residency.

PERSONS AGE 62 OR OLDER

Nevada residents 62 years or older (seniors) are not required to pay application fees. Per credit registration fees may also be waived on the basis of space available in the course as scheduled and based on the consent of the instructor. Lab and other fees are the responsibility of the student. Additional regulations may apply. Consult the Admissions Office.

REGISTRATION FEE

The registration fee for all credit courses is \$49 per credit as of fall semester 2004. Please consult the latest course schedule for current registration fee information. Certain courses also carry a special use or lab fee, designated in the college's course schedules. An exception is Community Education courses, for which the fees vary. All registration fees are due upon completion of registration.

SPECIAL EXAMINATION FEE

A \$25 fee may be assessed for each special examination administered to a student or member of the community.

TECHNOLOGY FEE

The UCCSN Board of Regents approved a technology fee to begin with the spring 2000 semester. This fee is \$4 per credit. Thus, the typical three-credit class for fall 2004 would cost \$159 in combined registration/technology fees based on \$49 per credit. Reduced state revenue forecasts have made these increases necessary. The technology fee funds unmet technology needs in computing and information delivery systems and enables WNCC to stay abreast of the latest technology.

IMPORTANT TERMS

ACADEMIC PROBATION -- Status of a student who fails to maintain an overall grade point average of 2.0 or higher.

ACADEMICALLY RESTRICTED -- Status of a student who has a grade point balance of negative ten (-10) or below, after attempting at least 30 credits.

ADD -- Change in registration to add a course after completion of initial registration in a semester.

ADVANCED STANDING -- Status of a student who submits a record of acceptable college credit from another university or college.

AUDIT -- To take a course without credit or grade. A course which has been audited may not be applied toward a degree or certificate.

BONA FIDE RESIDENT -- A person who resides in Nevada with the intent of making it his/her true, fixed and permanent home and place of habitation, having clearly abandoned any former residence and having no intent to make any other place outside Nevada home.

CERTIFICATE -- An award made for satisfactory completion of a certain level of skill in an occupational curriculum.

CORE -- Courses essential for each degree, program or certificate.

COREQUISITE -- A requirement that must be met along with a particular course. Two or more courses that must be taken in the same term.

CREDIT -- The numerical value received for completing a course.

CREDIT HOUR -- 15 hours contact time plus two hours of outside preparation per contact hour or 45 hours of laboratory or clinical experience within a semester.

DATE OF MATRICULATION -- The date of the first day of instruction in the semester or term of initial enrollment.

DEGREE -- An academic title that signifies completion of a course of study.

DEVELOPMENTAL COURSE -- A college preparatory course with a number below 100 does not apply toward a WNCC degree.

DROP -- Change in registration to eliminate a course after completion of initial registration in a semester.

EMPHASIS -- The subject or field of study in which the student intends to specialize. Applies to those fields of study leading to a degree or certificate.

FAMILY -- Means the student's father, mother or legal guardian, if appointed by a court at least six months prior to the date of matriculation and for purposes other than avoidance of tuition.

GOOD STANDING -- Status of a student who maintains an overall grade point average of 2.0 or higher.

GPA (grade point average) -- Determined by dividing the sum of grade points earned by the number of credit hours attempted.

NON-TRANSFERABLE COURSE -- A course that is acceptable for certain WNCC degree and certificate programs but will not be accepted at the University of Nevada, Reno or the University of Nevada, Las Vegas.

OCCUPATIONAL COURSE -- A course that teaches a particular body of information and/or skill training to prepare for a job.

OPEN ENTRY/OPEN EXIT -- A process for courses involving individualized instruction that students may enroll in and complete at designated times during the semester.

PARALLEL COURSE -- A WNCC course that is the same as one taught at a university or four-year college.

PREREQUISITE -- The preliminary requirement which must be met before a certain course may be taken.

PROBATION -- A period during which a student whose academic performance is not satisfactory is allowed an opportunity to improve and bring performance up to an acceptable level.

PROGRAM -- A systematic, usually sequential, grouping of courses forming a considerable part or all of the requirements for a degree or credential.

REPEATING COURSES -- A student has the right to repeat any course and have only the highest grade counted as part of his/her total grade point average. Students will not receive duplicate credit for repeated courses.

RESIDENT -- For purposes of enrolling for classes, a person who has resided in Nevada for at least six months.

TRANSCRIPT -- The permanent academic record of a student listing each course taken and final grade received.

TRANSFERABLE COURSE -- A WNCC course that will be accepted at a four-year college or university as comparable or equivalent to a course offered there. Some WNCC courses may be transferable to some schools but not to others. The receiving institution makes the decision.

TUITION -- A charge assessed against out-of-state students in addition to registration fees or other fees assessed against all students.

WEB-REG -- WNCC's Internet class registration system.

WITHDRAWAL -- The act of officially leaving WNCC. Students may drop individual courses without leaving the college.

SERVICES FOR STUDENTS & COMMUNITY

DEVELOPMENTAL EDUCATION

As part of WNCC's mission, the college provides instruction and services for individuals seeking to elevate their academic skills to the college level. Classes are available in English (reading and writing) and math, as well as in other academic areas to prepare students for college level classes.

ACADEMIC SKILLS CENTER (ASC)

The mission of the Academic Skills Center is to provide a positive learning environment so that students may succeed in their college classes. The ASC offers a variety of instructional services that help students develop their academic skills and acquire the habits of success.

The following services are offered at the ASC:

- **COMPUTER-ASSISTED INSTRUCTION** - Instruction is available in math, reading and writing, through the use of computer software.
- **LEARNING MATERIALS** - A selection of college textbooks are available for student use.
- **TUTORING** - Individual and group tutoring is available in math, English, study skills, and other subjects.
- **WORKSHOPS ON COLLEGE SUCCESS** - Some workshop topics include time management, note-taking, test-taking and study reading.

Academic Skills Centers

Carson City campus • Bristlecone Building, Room 330

ASC (775) 445-4260

Fallon campus • Stillwater Bldg., Rm. 307 (775) 423-7565

THE PLATO COMPUTER SYSTEM

PLATO provides individualized instruction through computer-based technology. Because of its flexible design, PLATO allows students to work at their own pace in a variety of subjects, including reading, math and writing.

These courses are designed for student convenience. Students may register for 1-3 credits any time during the semester, select convenient lab hours and work at their own pace.

A unique and flexible tool, PLATO is located in the Academic Skills Centers on the Carson City and Fallon campuses. To find out how PLATO can help you develop your basic skills, contact the ASC staff on either campus.

ADULT BASIC EDUCATION PROGRAM

ADULT BASIC EDUCATION

The college conducts a program of Adult Basic Education, funded by a grant from the Nevada Department of Education, to help adults improve their basic education and communication skills. The program houses a learning lab offering students several options for study. Students may attend a class, use workbooks and videos, make use of computer-aided technology or any combination of the above to facilitate the learning process.

ENGLISH AS A SECOND LANGUAGE

English as a Second Language classes are offered for adults who wish to improve English speaking, reading and writing skills. Classes are offered for those with limited reading and writing ability, and for adults with advanced reading and speaking skills. Computer aided technology is included in the ESL curriculum. In addition, advanced ESL classes are offered to prepare students for U.S. citizenship. Students progress out of the ESL program into GED preparation classes or developmental classes in the for-credit college curriculum.

GED EXAM PREPARATION

The college offers a variety of classes and instructional methods in Carson City, Fallon and Minden-Gardnerville to prepare students who have not graduated from high school to take the GED exam. Students are given a practice exam, similar to the actual GED exam, which identifies strengths and weaknesses. At that time, several options are presented for the student and the ABE staff to develop a program of study based on the needs of the student and availability of resources. Courses vary in length and intensity, are designed to meet the current needs of students, and are continuously modified.

BOOKSTORE

Follett Higher Education Group operates bookstores on both the Carson City and Fallon campuses which are open weekdays during designated hours. Course textbooks, school supplies and WNCC promotional items are available. Books are sold at WNCC Douglas at designated dates and times.

Students at other off site locations may fulfill book orders through efollett.com. Students may order textbooks by telephone, via the internet or by mail to the Carson City Bookstore.

For hours, dates and times of book sales call or consult the latest WNCC course schedule.

Call (775) 445-3233

CHILD CARE

The WNCC Child Development Center on the Carson City campus, in connection with the Early Childhood Education program, provides quality child care for children and support services to parents. Full-time care is available for children age 6 weeks to 6 years. Part-time child care is available for preschool children 3 to 6 years and potty trained, with preference being given to the children of WNCC students and staff. Evening care is provided to WNCC students Monday through Thursday from 5 to 10:15 p.m. for children 3-12 years old and potty trained. Some partial child care scholarships may be available for low-income students who utilize the part-time programs. For more information, call or come into the Child Development Center.

The center does not provide "drop-in" care. All registration papers must be submitted at least 24 hours before the child's first day of enrollment.

The Child Development Center has an extensive Resource Lending Library which contains parenting books and audio-visual materials on child development, health and nutrition and other child care related subjects. All of these materials are available for loan upon request.

SERVICES FOR STUDENTS & COMMUNITY

COUNSELING SERVICES

Western Nevada Community College offers a variety of counseling services as an integral part of each student's educational experience. Counselors are available to help students and community members make important decisions regarding educational goals and career directions.

Counselors can 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, job search techniques, current information on labor markets, and educational training requirements.

Counselors are also available for individual consultation to help students with personal problems and concerns. All matters discussed with counselors at WNCC are kept totally confidential.

Counseling Services

Carson	(775) 445-3267
Bristlecone Building, Room 103	
Douglas	(775) 782-2413
Bently Hall	
Fallon.....	(775) 423-4031
Stillwater Hall, Room 321	

DISABILITY SUPPORT SERVICES

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

Support services for WNCC 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. When appropriate, reasonable accommodations can include (but are not limited to) the following:

- Academic accommodations such as note takers, instructional aids and readers
- Assistive technology such as tape recorders, enlarged print, books on tape
- Alternative testing
- Interpreter services
- Adaptive computer equipment
- Liaison with faculty for special needs

WNCC buildings and classrooms are accessible to individuals with physical disabilities. In addition, special parking areas are available at each campus location.

Students with hearing impairments may conduct business with the college by utilizing the Telecommunication Device for the Deaf (TDD). The Carson City, Douglas, and Fallon campuses have TDD devices in central locations for the personal use of students with hearing impairments.

FINANCIAL ASSISTANCE

The Financial Assistance Office administers a broad array of financial aid programs, including grants, scholarships, loans and part-time employment to assist in meeting a student's demonstrated financial need. Most financial aid is "need based," that is, based on calculation formulas prescribed by the U.S. Department of Education.

Most assistance is offered as a "package" of aid which may include a combination of loans, work-study, grants, and scholarships. The amount and type of aid depends on the student's interest in particular aid types, level of enrollment, expected family contribution, financial need, availability of funds and other resources.

Financial assistance and scholarships are administered through the Office of Financial Assistance. Information and applications are available upon request. At the beginning of each calendar year, students apply for the following academic year. Students are encouraged to apply online at www.fafsa.ed.gov. (See page 143 for more information.)

INFORMATION & MARKETING SERVICES

Information and Marketing Services at Western Nevada Community College serves as a liaison between the college and the public. Information about college programs, courses, activities and events is available through this office. Specific services include the production of publications, media relations, dissemination of news releases, promotion of college programs, the college web site, and public speaking.

INTERNET SERVICES

Western Nevada Community College features many student services over the Internet. We offer class registration, account balance information, unofficial transcripts and many other resources at our web site. For the latest information, check the college web page at www.wncc.edu

E-mail Accounts

Any student enrolled at WNCC is eligible for a FREE WNCC e-mail account. For information, go to:

www.wncc.edu/it/email.php

JAVA JOE'S @ SEDWAY CAFE

Java Joe's @ Sedway Cafe is on the Carson City campus in the Aspen Building. The cafe serves a variety of hot entrees, fresh salads, soups, sandwiches and grilled items for lunch as well as breakfast and snacks. The cafe is open Monday through Friday to take care of the hungry student. Java Joe's can accommodate special activities or needs, and caters special events. Just give them some advance notice as they are dedicated to meeting the needs of the campus population and enhancing the learning experience. E-mail them at javajoes@wncc.edu, or check their web site at www.wncc.edu/sedway for hours and menu information.

SERVICES FOR STUDENTS AND COMMUNITY

LIBRARY AND MEDIA SERVICES

Library and Media Services is proud to announce the opening of the Joe Dini Library and Student Center at WNCC Carson City. Library facilities are located on the Carson City, Fallon, and Douglas campuses, with staff available to assist students with a variety of information resources including: loan of materials and equipment (Carson City and Fallon campuses only), reference assistance, library instruction and tours, and interlibrary loans. Library and media services at all campuses provide study space for students, course materials placed on reserve by instructors, equipment to view media, and photocopy machines. The Carson City and Fallon campus library collections include materials in various formats including books, audio cassettes, magazines, maps, Nevada documents, pamphlets and video cassettes. The Douglas campus facility relies primarily on electronic resources.

All borrowers need a Nevada library card to check out materials from the library and media collections. WNCC students can obtain a card during the semester by coming to the library and filling out a registration form. Some form of personal identification such as a WNCC Student I.D. or a driver's license must be shown.

Services are available to all students. Special borrowing procedures have been arranged for students attending WNCC classes at off-campus centers. Any currently registered WNCC student who has also registered in a WNCC library for student borrowing privileges can use a Nevada Library Card to borrow materials from other University and Community College System of Nevada libraries. The book collections for these libraries are indexed in an online database called NEON (Nevada Education Online Network). Staff at public libraries in the college service area can also search in NEON's online catalog. The catalog is available both via Telnet and World Wide Web access. Instructions for accessing NEON and online databases are available at WNCC libraries.

Library Services

Hours, services and access to collections call:

Carson City Library Services445-3229
Media Services445-4241
Fallon Library & Media Services423-5330
Douglas Library & Media Services....782-2413, x 5234

<http://library.wncc.edu>

RODEO TEAM

The WNCC Intercollegiate Rodeo Team was created to give students who compete at the high school level the chance to continue this activity at the college level. The Rodeo Team is based at the WNCC Fallon campus, but is open to all WNCC students who would like to compete in the West Coast Region of the National Intercollegiate Rodeo Association.

Call (775) 423-7565

STUDENT AMBASSADORS

WNCC has a Student Ambassador Program that features an outstanding group of student leaders. Student Ambassadors interact with prospective students and their parents, providing expertise about the college, the programs and the services offered here. Student Ambassadors attend events in the community representing WNCC and participate during campus activities.

Outreach Coordinator

Sue Richards(775) 445-3241

STUDENT CENTER

The student center is located on the first floor of the Dini Building. It offers students a place to study, relax, and have a good time.

The student center includes:

Fitness center
Game room/pool tables/video games
Television lounge
Student government office
Internet cafe
Study areas

Student Center and Fitness Center Hours: Available for fall 2004 - Monday - Friday 8 am - 5 pm (hours are subject to change)

Fitness Center: Valid WNCC college ID with a current activity sticker and enrolled in a minimum of three credits each semester is required to enter the Fitness Center. *No Exceptions.*

Student ID Cards/Activity Sticker: Students will need to acquire a WNCC student ID card and a \$20 activity sticker each semester to use the Fitness Center. Students can pay for their activity sticker in the Business office, and then take their receipt to the Student Center information desk to receive a valid sticker.

Student Activities Coordinator

Clair Yurovchak.....(775) 445-3324

STUDENT CONDUCT CODE

As part of the UCCSN, Western Nevada Community College complies with rules and regulations as adopted by the Board of Regents. These rules and sanctions are listed in the back of this publication.

STUDENT HOUSING

The college does not own or operate student housing facilities. Those seeking housing are advised to utilize the services of the local media to locate available lodging.

SERVICES FOR STUDENTS AND COMMUNITY

TESTING

The college makes available a variety of tests, including interest and personality inventories, designed to assist students in self-understanding and career planning. Other testing services available at WNCC include:

GENERAL EDUCATION DEVELOPMENT (GED)

The WNCC Carson City and Fallon campuses have been designated as official test centers for the General Education Development (GED) test. Contact the Adult Basic Education Office in Carson City or Counseling Services in Fallon for information and appointments.

PLACEMENT TESTING

All students are encouraged to take the reading, writing and mathematics test for better advisement and for their own awareness of these important academic skills. The Nursing Program requires students to take a test of Essential Academic Skills (TEAS).

College placement testing is available by appointment at the Carson City, Douglas and Fallon Campuses.

Students who are unsure what class to take are also encouraged to see a counselor.

UNITED STUDENTS ASSOCIATION

The United Students Association, otherwise known as student government, is an elected group of students who represent the student body of Western Nevada Community College. These students, who attend the Carson City, Douglas and Fallon campuses, coordinate student activities and organizations, and help assess student needs.

Any student who is enrolled at WNCC is a member of the United Students Association. Student government representatives encourage other students to contact them regarding any college concern or idea.

United Students Association

Carson City.....(775) 445-3323

Joe Dini, Jr. Library & Student Center, first floor

Fallon(775) 423-4031

Pinion Hall, Room 201

STUDENT ORGANIZATIONS

The formation of student groups on campus is encouraged, provided these groups serve a positive purpose and function. Student organizations must be chartered through the United Students Association of Western Nevada Community College. Any student may propose to form a student organization by filing a petition with USA. All organizations must maintain a membership of at least five students and sponsor at least one educational or social activity each semester. Students are urged to take an active part in their student government organization. Contact USA for information on student organizations. Some include:

GOLF CLUB

The WNCC Golf Club at the Fallon campus is designed to stimulate and increase the interest and knowledge of the sport of golf and to promote a feeling of fellowship and companionship among golfers.

JOURNALISM CLUB

The Journalism Club at the Fallon campus promotes interest in the fields of writing and journalism, and promotes a feeling of fellowship among students with similar interests. The members work together to publish a school newspaper while gaining expertise in desktop publishing software.

INTERNATIONAL CLUB

The International Club is a group that meets to explore American culture and the various cultures represented by the participants of the club. Members practice conversational and idiomatic English while sharing fellowship and experiences with non-native English speakers, native English speakers, and people from countries other than the United States.

Call (775) 445-4451

LONE MOUNTAIN WRITERS

Lone Mountain Writers is open to students, faculty and members of the community who share a passion for writing in all genres. The group meets semi-monthly on the Carson City campus of WNCC and offers critiques, guest speakers and support.

Web Pages for Lone Mountain Writers can be found at

<http://wncc.edu/~boedenau/LoneMtn/>.

NATIONAL STUDENT NURSES' ASSOCIATION

The National Student Nurses' Association is a preprofessional organization for those pursuing a nursing education. Involvement in the NSNA promotes the development of leadership skills needed to be a responsible and accountable professional nurse. Those studying for a degree in nursing, whether admitted in the nursing program or not, are invited to join and participate.

PHI THETA KAPPA HONOR SOCIETY

Phi Theta Kappa has recognized academic excellence in two-year colleges since 1918 and has become the largest and one of the most prestigious honor societies in higher education. WNCC has two chapters of Phi Theta Kappa: Alpha Upsilon Beta and Beta Theta Iota. Alpha Upsilon Beta was established in 1991 and has inducted more than 500 members. Beta Theta Iota was established at WNCC Fallon in 1998 and has inducted more than 75 members.

Phi Theta Kappa has four hallmarks:

- Scholarship
- Service
- Leadership
- Fellowship

Honors students are encouraged to join and become active in Phi Theta Kappa at the local, regional, and national level.

SILENT FRIENDS

This club is designed to expose the community to American Sign Language as the subtle, elegant, powerful language of a rich, complex culture.

WHITE WOLF ROLE PLAYING CLUB

The White Wolf Role Playing Club at the Carson City campus is dedicated to support and enhance the White Wolf role playing systems. Members and their guests role play a character in a variety of scenarios and settings.

SERVICES FOR STUDENTS AND COMMUNITY

VETERANS SERVICES

To help eligible veterans access their veterans educational benefits, the college maintains an office of Veterans Services within the Financial Assistance Office.

ELIGIBLE VETERANS

Eligibility may be granted to veterans honorably separated from military service, active duty military, military reservists, veterans with service connected disabilities, and dependents of veterans who are totally and permanently disabled. The responsibility for determining eligibility for veterans educational benefits rests with the Department of Veteran Affairs. The Veterans Services office will assist veterans and eligible dependents in submitting the required documents to access their benefits. They will certify enrollment, report changes to enrollment, and satisfactory progress to the VA. Additionally, they will act as a resource for information regarding VA policies and procedures.

ELIGIBLE PROGRAMS

- Montgomery G.I. Bill (Chapter 30)
- Montgomery G.I. Bill for the Select Reserve (Chapter 1606)
- Veterans' Educational Assistance Program (Chapter 32)
- Survivors' & Dependents' Educational Assistance Program (Chapter 35)
- Veterans Vocational Rehabilitation Program (Chapter 31)

Veterans educational benefits are, in most cases, a monthly benefit paid directly to the student by the VA. The student has the responsibility to pay tuition/fees to the school while waiting to receive benefits. Application materials are available in the Veterans Services Office, or from Counseling Services on the Fallon campus. Students attending any of WNC's other campuses/centers, should see their campus coordinator for information.

Veterans Services Office

Veterans educational benefits, VA forms, VA policies, VA resources

(775) 445-3264

www.wncc.edu

(click on Student Services,
then Financial Assistance, then Veterans Services)

Academic Programs

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

A number of one-year certificates are also offered in occupational areas. Students are encouraged to read the specific information about each degree or certificate before making their decisions. Counselors and faculty advisors are also available to provide information on the programs available.

To meet the needs of its students, WNCC offers four associate degrees:

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

OCCUPATIONAL PROGRAMS AND EMPHASES

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

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 actual “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

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

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

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

Academic Programs & Degrees

	Associate of Applied Science Degree	Associate of Arts Degree	Associate of Science Degree	Certificate of Achievement	Transfer Program Courses **	Certification Preparation
Accounting (<i>Business Emphasis</i>)	X				X	
Accounting - Applied (<i>Business Emphasis</i>)	X					
Accounting Technician				X		
Automotive Mechanics	X			X		X
Biophysical Sciences (<i>Associate of Science Emphasis</i>)			X		X	
Business	X			X	X	
Chemistry (<i>Associate of Science Emphasis</i>)			X		X	
Computer Technology - Cisco Systems				X		X
Computer Technology - Microcomputer/Network Technician				X		X
Computer Technology - Network Administration				X		X
Computer Technology - Networking Technology*	X				X	
Computer Technology - Office Technology*	X				X	
Computer Technology - Web Technology*	X				X	
Construction Science					X	
Construction Technology - Craft Training (<i>Construction Tech Emphasis</i>)	X				X	
Construction Technology - Project Management (<i>Construction Tech Emphasis</i>)	X				X	
Criminal Justice (<i>Associate of Arts Emphasis</i>)		X			X	
Criminal Justice - Corrections (<i>Criminal Justice Emphasis</i>)	X			X	X	
Criminal Justice - Juvenile Justice (<i>Criminal Justice Emphasis</i>)	X			X	X	
Criminal Justice - Law Enforcement (<i>Criminal Justice Emphasis</i>)	X			X	X	
Criminal Justice - Law Enforcement/Academy (<i>Criminal Justice Emphasis</i>)	X			X	X	X
Drafting Technology - Architectural (<i>Drafting Technology Emphasis</i>)	X			X	X	
Drafting Technology - Mechanical (<i>Drafting Technology Emphasis</i>)	X			X	X	
Early Childhood Education	X			X	X	
Education					X	
Electronics Technology	X			X	X	
Engineering Science (<i>Associate of Science Emphasis</i>)			X		X	
Engineering Technology - Computer	X				X	
Engineering Technology - Electrical	X				X	
Engineering Technology - Electronics	X				X	
Financial Operations Management				X		
Geographic Information Systems	X			X	X	
Geosciences (<i>Associate of Science Emphasis</i>)			X		X	
Golf Facilities Management (<i>Business Emphasis</i>)	X			X	X	
Graphic Communications	X			X	X	
Legal Assistant	X				X	
Legal Office Specialist				X		
Machine Tool Technology	X			X		
Management (<i>Business Emphasis</i>)	X				X	
Mathematics (<i>Associate of Science Emphasis</i>)			X		X	
Musical Theatre (<i>Associate of Arts Emphasis</i>)		X			X	
Nursing	X			X	X	
Physics (<i>Associate of Science Emphasis</i>)			X		X	
Real Estate (<i>Business Emphasis</i>)	X					X
Surgical Technology				X		X
Welding Technology	X			X		X

*Pending final approval by the UCCSN Board of Regents.

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

General Education

All WNCC degrees and certificates include a general education component. The outcomes below will be phased into general education requirements during the upcoming year.

One of the most important improvements to the curriculum of WNCC is the development of a clear mission and student learning outcomes for all degrees and certificates of achievements. The purpose of the new mission and student learning outcomes is to clearly identify the knowledge, skills and attitudes students are expected to have when they complete their programs.

During 2004-2005, WNCC faculty will be reviewing all general

education courses to make sure they support the general education mission and outcomes. As students take general education courses they can expect to see details on how each course addresses general education. Changes in the courses required to complete general education will go into effect in the 2005-2006 year.

COMMUNICATION

The first component of general education at WNCC focuses on equipping students with the skills to organize and communicate ideas, concepts, and information in personal and work settings.

STUDENT LEARNING OUTCOMES - Students who complete a degree or certificate of achievement at WNCC are able to demonstrate appropriate:

1. college-level writing skills.
2. oral communication skills.
3. college-level reading skills.

ANALYSIS

The second component of general education at WNCC is to provide students the foundation needed to make effective decisions and solve problems in their professional and personal lives.

STUDENT LEARNING OUTCOMES - Students who complete a degree or certificate of achievement at WNCC are able to:

1. demonstrate knowledge of appropriate critical thinking skills.
2. use appropriate mathematical skill.
3. use appropriate problem solving skills.
4. use appropriate principles of reasoning and decision-making.
5. locate and evaluate information.

PERSONAL DEVELOPMENT

The third component of general education at WNCC addresses the development of self-sufficiency and responsibility for effectiveness in personal and professional activities.

STUDENT LEARNING OUTCOMES - Students who complete a degree or certificate of achievement at WNCC are able to:

1. demonstrate knowledge of and ability to use effective and efficient learning skills.
2. develop and implement career and educational plans.
3. engage in meaningful self-assessment.
4. work effectively with others.
5. demonstrate computer skills appropriate to their degree or certificate.
6. develop creative capacities.
7. appreciate and value the importance of ethics in their professional and personal lives.

COMMUNITY COMMITMENT

The last component of general education at WNCC focuses on preparing students to participate in, and value the role of, community and culture.

STUDENT LEARNING OUTCOMES - Students who complete a degree at WNCC are able to demonstrate that they:

1. know the basic principles and processes of government at the local, state, national and international level.
2. have participated in at least one significant endeavor in each of the following:
 - a. civic project or activity.
 - b. cultural or artistic activity.
 - c. activity focused on diversity or multicultural issues.
3. appreciate the value and importance of:
 - a. diversity.
 - b. public service.
 - c. the vital role of the fine arts and humanities in the development of cultural values.

General Education Mission & Outcomes

The mission of general education is to provide students in all program areas with a core of critical life skills: communication, analysis, personal development, and community commitment. The philosophy of general education is to promote the growth and development of knowledge, skills, and attitudes that will benefit students in their personal and professional endeavors.

Transfer Degrees

Associate of Arts & Associate of Science

The Associate of Arts and Associate of Science degrees are primarily for the student who plans to transfer from WNCC 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 WNCC students successfully transfer to other schools. Each one has its own specific requirements and recommended electives for its various emphases.

Community college students who plan to transfer to either University of Nevada, Reno or University of Nevada, Las Vegas and who did not complete the university entrance requirements in high school, must complete a minimum of 12 semester credit hours in general education courses. These credits are required for the Associate of Arts or Associate of Science degree. Students must have a grade point average of at least 2.0 to qualify for admission to the universities.

HOW WNCC COURSES TRANSFER AND MEET DEGREE REQUIREMENTS

All students planning to transfer to a four-year college or university are encouraged to meet with a WNCC counselor to ensure their understanding of current transfer guidelines and to carefully design a transfer program that will best meet their needs.

Courses with numbers 100 to 299 (such as ENG 101) are college level courses which are designed to transfer within the University and Community College System of Nevada, and often to other colleges and universities, including UNR, UNLV, and Nevada State College as either an equivalent, a departmental elective or a general elective.

Courses with a "B" designator after the number (such as MATH 100B) are college level courses which may apply toward a WNCC degree but which may not transfer to UNR or UNLV. In some cases, these courses may transfer to other Nevada community colleges and NSC or to out-of-state college and universities. See a WNCC counselor for the latest transfer information.

Courses with a "C" designator after the number (such as CS 109C) are community education courses which do not apply toward college degrees.

Courses with an "L" designator after the number (such as PHYS 151L) are college level laboratory courses which are designed to transfer.

Courses with numbers below 100 (such as ENG 95) are developmental courses which do not apply toward a WNCC degree and normally do not transfer to a university.

TRANSFER PROGRAMS

WNCC students may select a course of study which enables them to complete some or all of the lower division requirements for a four-year degree in the following emphases at UNR, UNLV, or other schools.

Recent surveys of WNCC students show they have transferred to colleges throughout the country including: UNR; UNLV; California State University, Long Beach; Montana State University, Billings; Sierra Nevada College; St. Leo University, Fla.; Idaho State University; Southern Illinois University and University of California, Davis.

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

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

Associate of Arts Degree and Associate of Science Degree Mission & Outcomes

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

STUDENT LEARNING OUTCOMES - Students who complete either an AA or an AS degree are expected to demonstrate that they -

1. know the subject matter appropriate to the emphasis of the degree.
2. are able to do the following:
 - a. write papers which demonstrate research, reading, and critical thinking skills.
 - b. develop effective oral communication skills.
 - c. apply mathematical and analytical problem-solving skills.
 - d. succeed at their transfer institutions.
3. have developed an appreciation of the following:
 - a. the importance of ethics, cultural traditions and diversity, the natural world, and the arts.
 - b. the importance of participation in civic affairs.

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 printed in **BOLD/UNDERLINED** from the list below. Satisfactory completion of an AA degree with UNR designated courses (those in bold) guarantees completion of the lower division general education requirements at UNR. Students intending to transfer to other schools should see a counselor or follow the catalog of the transfer school.

Courses with a "B" after the course number (such as MATH 100B or CS 109C) and courses with a number under 100 (such as ENG 95) are not applicable toward the Associate of Arts degree. All courses to be counted toward this degree must be university transferable.

A maximum of six credits of special topics classes in one subject area may apply toward any WNCC degree.

NOTE: Information on transfer to UNR is based on UNR requirements for the 2004-2005 school year. These requirements may change in subsequent years. See a WNCC counselor for the most up-to-date information.

Emphases and areas of study offered at WNCC include: Criminal Justice • Musical Theatre

ASSOCIATE OF ARTS DEGREE REQUIREMENTS

DEGREE REQUIREMENTS - Coursework must total at least 60 credits.

ENGLISH/COMMUNICATIONS REQUIREMENTS - 6 credits. WNCC and UNR:

- English **101**, **102**

FINE ARTS REQUIREMENT - 3 credits.

WNCC and UNR: Choose from:

- Art **107***, 124, **160**, 224, **260**, **261**
- Dance 101
- Humanities **101**
- Music 111*, **121**, **123**, **124**, **221***
- Theatre **100**, **105***, **180**

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

Please see a counselor.

HUMANITIES REQUIREMENT - 6 credits.

WNCC: Choose from:

- Core Humanities **201**, **202**
- English 200, 223, **231**, **232**, 235, 236, 241, 242, 243, 250, 252, 261, 266, 267, 271, 275
- History **105**, **106**, 207, 247, 260, 275
- Humanities 210
- Philosophy (any course except 102, 105, 114)

UNR: Choose one course from each group:

Group A: **CH 201**, **ENG 231***, **HIST 105***, **PHIL 200***

Group B: **CH 202**, **ENG 232***, **HIST 106***, **PHIL 207***

*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.

SCIENCE REQUIREMENT - 6 credits.

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

UNR: Choose from bolded courses, including at least one course from Group A:

- Biology **100**, 113, **190**, **191**, 223, 224, 251
- Chemistry **100**, 110, 111, **121**, **122**, **201**, **202**, 220, 241, 242, 245
- Geology **100**, **101**, **103**, 102, 105, 127, 132, 201, 210
- Physics **100**, **151**, **152**, **180**, **181**, **182**

Group B:

- Anthropology 102, **102 + 110L**
- Astronomy **109**, **110**
- Environmental Studies **100**
- Geography **103**, 104
- Nutrition **121**, 223

MATHEMATICS REQUIREMENT - 3 credits.

WNCC and UNR: Choose from:

- Mathematics **120**, 124, 126, 127, **126 & 127**, **128**, **176**, **181**, **182**, 253, 280, 283, 285
- Statistics 152

SOCIAL SCIENCES REQUIREMENT - 9 credits.

* WNCC: Choose from the following list. Must include work in two or more subject areas. UNR: Choose from bolded courses.

- Anthropology **101**, **201**, **202**, 205, 210, 212
- Core Humanities 203
- Criminal Justice 101, 220, 230, 270
- Economics **102**, **103**
- Geography **106**, 109
- History 101, 102, 111, 217, 281, 295
- Journalism 101
- Political Science 103, 105, 108, 116, **206**, 208, **231**, 285, 295, 299
- Psychology (any course except 210)
- Social Work 220
- Sociology (any course except 210)

* Number of credits required may vary according to specific emphasis. See articulation agreement or counselor.

U.S. AND NEVADA CONSTITUTION REQUIREMENTS -

3 or 6 credits. WNCC and UNR: Must meet both requirements.

Choose from:

- Core Humanities **203**
- History **111*** or
- Political Science **103*** or
- History **101*** and History **102*** or
- History **101*** and History **217*** or
- History **101*** and Political Science **208***

*These courses will not fulfill UNR's CH 203 requirement,

if taken after the student has been admitted and enrolled at UNR.

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

Students should utilize this area to take courses that meet requirements for their major at their intended transfer school. Those who have not yet selected a major may choose from among any university transferable courses to explore their options. Students planning to transfer to the University of Nevada, Reno should obtain a transfer handout from WNCC 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, special analysis and logic by which we understand the mathematical, biological and physical nature of the world. The AS degree allows early choices for those planning a professional life in mathematics, science, engineering, medicine or agriculture.

The AS degree is primarily for the student who plans to transfer with junior standing to a four-year college or university for a baccalaureate degree. If the University of Nevada, Reno is the intended transfer school, choose **ONLY** those courses that are printed in **BOLD/UNDERLINED** from the list below. Satisfactory completion of an AS degree with UNR designated courses (those in bold) guarantees completion of the lower division general education requirements at UNR. Students intending to transfer to other schools should see a counselor or follow the catalog of the transfer school.

Courses with a "B" after the course number (such as MATH 100B or CS 109C) and courses with a number under 100 (such as ENG 95) are not applicable toward this degree. All courses counted toward this degree must be university transferable.

A maximum of six credits of special topics classes in one subject area may apply toward any WNCC degree.

NOTE: UNR transfer information is based on requirements for the 2004-2005 school year. These requirements may change in subsequent years. See a counselor for the most up-to-date information.

Students must select an emphasis to follow in obtaining the Associate of Science degree. Emphases and areas of study offered at WNCC include:

- **Biophysical Sciences**
- **Engineering Science**
- **Mathematics**
- **Chemistry**
- **Geosciences**
- **Physics**

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

DEGREE REQUIREMENTS - Coursework must total at least 60 credits.

ENGLISH/COMMUNICATIONS REQUIREMENTS - 6 credits. WNCC and UNR:

- English **101, 102**

FINE ARTS REQUIREMENT - 3 credits.

WNCC and UNR: Choose from:

- Art **107***, 124, **160, 224, 260, 261**
- Music 111*, **121, 123, 124, 221***
- Dance 101
- Theatre **100, 105*, 180**
- Humanities **101**

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

Please see a counselor.

HUMANITIES REQUIREMENT - 6 credits.

WNCC: Choose from:

- Core Humanities **201, 202**
- English 200, 223, **231, 232**, 235, 236, 241, 242, 243, 250, 252, 261, 266, 267, 271, 275
- History **105, 106**, 207, 247, 260, 275
- Humanities 210
- Philosophy (any course except 102, 105, 114)

UNR: Choose one course from each group:

Group A: **CH 201, ENG 231*, HIST 105*, PHIL 200***

Group B: **CH 202, ENG 232*, HIST 106*, PHIL 207***

**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.*

SCIENCE REQUIREMENTS -

WNCC: Choose 12 credits for math emphasis only. Science requirements are already fulfilled for other emphases.

UNR: Choose 6 credits, with at least one course from Group A:

Group A:

- Biology **100, 191, 190**
- Chemistry **100, 121, 122, 201, 202**
- Geology **100, 101, 103**
- Geology **100, 101, 103**
- Physics

Group B:

- Anthropology 102, **102 + 110L**
- Astronomy **109, 110**
- Environmental Studies **100**
- Geography **103, 104**

MATHEMATICS REQUIREMENT - 6 credits.

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

WNCC and UNR: Choose from:

- Mathematics 124, 126, 127, **126 & 127, 128, 176, 181, 182**, 253, 280, 283, 285
- Statistics 152

SOCIAL SCIENCES REQUIREMENT - 6 credits.

WNCC: Choose from the following: UNR: Choose from bolded courses:

- Anthropology **101, 201, 202**, 205, 210, 212
- Core Humanities 203
- Criminal Justice 101, 220, 230, 270
- Economics **102, 103**
- Geography **106**, 109
- History 101, 102, 111, 217, 281, 295
- Journalism 101
- Political Science 103, 105, 108, 116, **206**, 208, **231**, 285, 295, 299
- Psychology **101**, 102, 130, 206, 207, 208, 233, 234, 240, 241, 261, 290, 299
- Social Work 220
- Sociology **101**, 102, 202, 205, 240, 261, 275

U.S. AND NEVADA CONSTITUTION REQUIREMENTS - 3 or 6 credits. WNCC and UNR: Must meet both requirements.

Choose from:

- Core Humanities 203
- History **101*** and History **102*** or
- History **111*** or
- History **101*** and History **217*** or
- Political Science **103*** or
- History **101*** and Political Science **208***

**These courses will not fulfill UNR's CH 203 requirement,*

if taken after the student has been admitted and enrolled at UNR.

EMPHASIS REQUIREMENTS, PROGRAM REQUIREMENTS, AND ELECTIVES

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

Associate of Applied Science

The Occupational Degree

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 WNCC counselor. Coursework must total at least 60 credits.

Courses with a number under 100 (such as ENG 95) are not applicable toward an Associate of Applied Science degree at WNCC.

Courses with a "B" designator after the number (such as MATH 100B) are college level courses which may apply toward a WNCC degree but which may not transfer to UNR or UNLV. In some cases, these courses may transfer to other Nevada community colleges and Nevada State College or to other colleges and universities. See a WNCC counselor for the latest transfer information.

A maximum of six credits of special topics classes in one subject area may apply toward any WNCC degree.

To make decisions about specific emphases under the Associate of Applied Science degree, please refer to the academic programs pages or see a WNCC counselor.

NOTE: All Associate of Applied Science degree and certificate programs require completion of appropriate courses in computation, communication and human relations. Additionally, introductory courses in all applied science and technology as well as all allied health programs include instruction in safety, industrial safety and environmental awareness, as appropriate.

Students with previous occupational or practical experience may challenge certain course requirements and prerequisites. In some cases, required courses may be waived, allowing the student to proceed to coursework at the appropriate level. In other cases, challenge examinations may be arranged for which the student can receive academic credit and a "pass" grade for the course.

Emphases and areas of study offered at WNCC include:

- Accounting
- Accounting - Applied
- Automotive Mechanics
- Business - General Business
- Computer Technology - Networking Technology
- Computer Technology - Office Technology
- Computer Technology - Web Technology
- Construction Technology - Craft Training
- Construction Technology - Project Management
- Criminal Justice - Corrections
- Criminal Justice - Juvenile Justice
- Criminal Justice - Law Enforcement
- Criminal Justice - Law Enforcement/Academy
- Drafting Technology - Architectural
- Drafting Technology - Mechanical
- Early Childhood Education
- Electronics Technology
- Engineering Technology - Computer
- Engineering Technology - Electrical
- Engineering Technology - Electronics
- Geographic Information Systems
- Golf Facilities Management
- Graphic Communications
- Legal Assistant
- Machine Tool Technology
- Management
- Nursing
- Real Estate
- Welding Technology

Associate of Applied Sciences Degree Mission & Outcomes

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

STUDENT LEARNING OUTCOMES - Students who complete programs in occupational areas are expected to demonstrate that they -

1. know the subject matter appropriate to the emphasis of the degree.
2. are able to do the following:
 - a. acquire skills and perform tasks necessary for employment or career enhancement.
 - b. present themselves effectively to a potential employer.
 - c. demonstrate effective communication and computation skills appropriate to the chosen occupational field.
 - d. utilize appropriate resources to remain current in the chosen occupational field.
3. have developed an appreciation of the importance of social, ethical, legal and diversity issues.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS

CORE AND EMPHASIS REQUIREMENTS

A minimum of 36 credits.

ENGLISH/COMMUNICATIONS REQUIREMENTS - 6 credits.

Must include a writing course.

Choose from the following:

- Business 107, 108
- Communication 113, 215
- Criminal Justice 103
- English
- Journalism 201
- Writing course (Business 108, English 101, 102, or any other 200 level English class except ENG 258)

MATHEMATICS REQUIREMENT - 3 credits.

Choose from the following:

- Business 109B, 170
- Economics 261, 262
- Mathematics
- Real Estate 102B
- Statistics 152

SCIENCE REQUIREMENT - 3 credits.

Choose from the following:

- Agriculture 101
- Animal Husbandry 101, 110B
- Anthropology 102
- Astronomy 109, 110
- Biology
- Chemistry
- Environmental Studies
- Geography 103, 104
- Geology
- Nutrition 121, 223
- Ornamental Horticulture 105B
- Physics
- Science

U.S. AND NEVADA CONSTITUTION REQUIREMENTS

3 or 6 credits. Must meet both requirements.

Choose from the following:

- Core Humanities 203
- History 111
- or Political Science 103
- or History 101 and History 102
- or History 101 and History 217
- or History 101 and Political Science 208

HUMAN RELATIONS REQUIREMENT - 1-3 credits.

Choose from the following:

- Anthropology 101, 201, 205
- Business 110B, 287B
- Early Childhood Education 121
- Computer and Office Technology 131B, 241
- Counseling and Personal Development 117, 129B
- Criminal Justice 270
- Human Development and Family Studies 201, 202
- Law 263
- Management 201, 212, 283
- Psychology (any course except PSY 210)
- Sociology (any course except SOC 210)

HUMANITIES/SOCIAL SCIENCE REQUIREMENTS -

3 credits. Choose from either Humanities or Social Science areas:

HUMANITIES AREA

- Art 107*, 160, 124, 224, 260, 261
- Core Humanities 201, 202
- Dance 101
- English 200, 221, 223, 231, 232, 235, 236, 241, 242, 244, 250, 258, 261, 266, 267, 271, 275
- History 105, 106, 207, 247, 260, 275
- Humanities 101, 210
- Music 111*, 121, 123, 124, 221*
- Philosophy (any course except 102, 105, 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, 205, 210, 212
- Core Humanities 203
- Criminal Justice 101, 120, 215, 220, 225, 226, 230, 270
- Economics 102, 103
- Geography 106, 109
- History 101, 102, 111, 217, 281, 295
- Journalism 101
- Political Science
- Psychology (any course except PSY 210)
- Social Work 220
- Sociology (any course except SOC 210)

EMPHASIS REQUIREMENTS, PROGRAM REQUIREMENTS, AND GENERAL ELECTIVES

Number of credits required may vary by emphasis.

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

Associate of General Studies

The Degree to Meet a Variety of Needs

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.

If you plan to attend UNR, it is recommended that you complete ENG 101 and 102, MATH 120 or a higher level math, and science/social science courses that fulfill UNR's core curriculum requirements. If you use any "B" courses in your

program of study, you will need to make up those credits upon transfer.

Courses with a number under 100 (such as ENG 95) are not applicable toward an Associate of General Studies degree. Courses with a "B" designator after the number (such as MATH 100B) are college level courses which may apply toward a WNCC degree but will not transfer to UNR or UNLV. In some cases, these courses may transfer to other Nevada community colleges and Nevada State College or other colleges and universities. See a WNCC counselor for the latest transfer information.

DEGREE REQUIREMENTS - *Coursework must total at least 60 credits.*

ENGLISH/COMMUNICATIONS REQUIREMENTS - *6 credits. Must include a three-credit writing course. Choose from the following:*

- Business 107, 108
- Communication 113, 215
- Criminal Justice 103
- English
- Journalism 201
- Writing course (Business 108, English 101, 102, or any 200 level English class except ENG 258)

FINE ARTS AND HUMANITIES REQUIREMENTS -

3 credits. Choose from the following:

- American Sign Language
- Art
- Core Humanities 201, 202
- Crafts
- Dance 101
- English 190, 200, 223, 231, 232, 235, 236, 241, 242, 243, 250, 253, 258, 267, 271
- Foreign Language
- Graphic Communications
- History 105, 106, 207, 247, 260, 275
- Humanities 101, 210
- Music
- Philosophy (any course except 102, 105, 114)
- Theatre 100, 105, 180

SCIENCE REQUIREMENT - *3 credits.*

Choose from:

- Agriculture 101
- Animal Husbandry 101, 110B
- Anthropology 102
- Astronomy 109, 110
- Biology
- Chemistry
- Environmental Studies
- Geography 103, 104
- Geology
- Nutrition 121, 223
- Ornamental Horticulture 105B
- Physics
- Science

MATHEMATICS REQUIREMENT - *3 credits.*

Choose from the following:

- Business 109B
- Economics 261, 262
- Mathematics
- Real Estate 102B
- Statistics 152

SOCIAL SCIENCES REQUIREMENT - *3 credits.*

Choose from the following:

- Anthropology 101, 201, 202, 205, 210, 212
- Core Humanities 203
- Criminal Justice
- Economics 102, 103
- Geography 106, 109
- History 101, 102, 111, 217, 281, 295
- Journalism 101
- Political Science
- Psychology (any course except 210)
- Social Work 220
- Sociology (any course except 210)

U.S. AND NEVADA CONSTITUTION REQUIREMENTS

3 or 6 credits. Must meet both requirements. Choose from the following:

- Core Humanities 203
- History 111, or Political Science 103, or History 101 & History 102, or History 101 & History 217, or History 101 & Political Science 208

GENERAL ELECTIVES - *36 or 39 credits.*

Students may choose from any occupational or general education courses to be used as electives for this degree.

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

Associate of General Studies Degree Mission & 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 AGS degree are expected to demonstrate that they -

1. know the subject matter appropriate to their field of study.
2. are able to do the following:
 - a. read and think critically at the college level.
 - b. speak and write effectively.

- c. comprehend and apply college level mathematics.
- d. understand the methods of science and the role of science and technology in the modern world.
- e. use research and computer skills to locate and evaluate information.
3. have developed an appreciation of the importance of ethics, civic responsibility, diversity, the natural world and the arts.

Certificate of Achievement

For those desiring a shorter course of study, WNCC offers certificates of achievement in many occupational areas.

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

Certificates are listed in alphabetical order in the Academic Programs section.

Students may earn a certificate of achievement in the following areas:

- Accounting Technician
- Automotive Mechanics
- Business
- Computer Technology - Cisco Systems
- Computer Technology - Microcomputer/Network Technician
- Computer Technology - Network Administration
- Criminal Justice - Corrections
- Criminal Justice - Juvenile Justice
- Criminal Justice - Law Enforcement
- Criminal Justice - Law Enforcement/Academy
- Drafting Technology - Architectural
- Drafting Technology - Mechanical
- Early Childhood Education
- Electronics Technology
- Financial Operations Management
- Geographic Information Systems
- Golf Facilities Management
- Graphic Communications
- Legal Office Specialist
- Machine Tool Technology
- Practical Nursing
- Surgical Technology
- Welding Technology

Certificate of Achievement Mission & Outcomes

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

STUDENT LEARNING OUTCOMES - Students who complete a Certificate of Achievement are expected to demonstrate that they -

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

CERTIFICATE GENERAL EDUCATION REQUIREMENTS

All certificates include general education requirements which can be fulfilled from the following list of courses.

Courses with a number under 100 (such as ENG 95) are not applicable toward a Certificate of Achievement at WNCC.

Courses with a "B" designator after the number (such as MATH 100B) are college level courses which may apply toward a WNCC degree but which may not transfer to UNR or UNLV. In some cases, these courses may transfer to other Nevada community colleges and Nevada State College or to other colleges and universities. See a WNCC counselor for the latest transfer information.

ENGLISH/COMMUNICATIONS REQUIREMENTS -

3 credits. Must include a writing course.

Choose from the following:

- Business 107, 108
- Criminal Justice 103
- English
- Journalism 201
- Communication 113, 215
- Writing courses (Business 108, English 101, 102, 106, 107, 108, or any other 200 level English class except 258)

MATHEMATICS REQUIREMENT - 3 credits.

Choose from the following:

- Business 109B, 170
- Economics 261, 262
- Mathematics
- Real Estate 102B
- Statistics 152

HUMAN RELATIONS REQUIREMENT - 1-3 credits.

Choose from the following:

- Anthropology 101, 201, 205
- Business 110B, 287B
- Computer and Office Technology 131, 241
- Counseling and Personal Development 117, 129B
- Criminal Justice 270
- Early Childhood Education 121
- Human Development and Family Studies 201, 202
- Law 263
- Management 201, 212, 283
- Psychology (any course but PSY 210)
- Sociology (any course but SOC 210)

Special Academic Programs

COMPUTER AND OFFICE TECHNOLOGY PROGRAM

WNCC's Computer and Office Technology program meets government, business, and industry needs for qualified and skilled employees. This is a true open entry/open exit program in which students may enter the program at any time and proceed at their own pace. This method of instruction fulfills the needs of many individuals in our community.

In a comprehensive program, students learn the latest office technologies which allow them to enter the business world, brush up on business skills or prepare for a career change. Instruction is provided in keyboarding, data entry, 10 key, filing, word processing, medical terminology, beginning medical typing and transcription, computerized medical front office, computerized medical billing, medical filing, Windows 2000, and Microsoft Office. All classes include hands-on instruction.

Call (775) 445-4243

CONTINUING EDUCATION PROGRAMS

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

COMMUNITY EDUCATION

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

The department also sponsors College for Kids, an educational enrichment program to challenge and entertain the youth in our service area.

Since Community Education is self-supporting, classes that typically do not receive enough enrollment to qualify for state support may successfully be delivered through this department. New programs may originate here until they qualify to be part of the state-supported curriculum. Programs such as Motorcycle Safety will grant certificates of completion. For unpublished course offerings or to suggest a new class,

Call (775) 445-4268

CORRECTIONAL EDUCATION

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

Call (775) 887-3082

CUSTOMIZED TRAINING FOR BUSINESS, GOVERNMENT AND INDUSTRY

This service helps Western Nevada Community College meet the needs of employers for customized instruction. Classes are designed based upon employer specifications. New programs are often developed to meet local business, government and industry needs. Course work can be offered on site starting at any time during the year. Days and times of instruction are at the convenience of the employer. The instruction may be offered for credit or non-credit.

Call (775) 445-4458

DISTANCE EDUCATION

WNCC offers courses utilizing the most current advances in technology. Students within the college service area are able to supplement traditional classes offered at their WNCC instructional center by accessing college classes at one of 12 two-way audio/video interactive sites. In addition, WNCC continues to expand its web-based curriculum by offering numerous online classes to students in and out of the college service area, and an online Associate of Applied Science Degree in Business.

Call (775) 445-4415

JOB BOARD

Job Board is an employment information service available to students and the community. Through this service, data is collected by staff - in person, by telephone or e-mail, or via fax - from area employers who wish to post available employment opportunities. Information should include job title, salary work hours, etc., and is posted on the Job Board in the Donald W. Reynolds Center for Technology at WNCC Carson City. It may also be distributed to other college locations.

www.wncc.edu/studentsservices/job/studentjobs.php

Call (775) 445-4458

RURAL INSTRUCTIONAL CENTERS

WNCC maintains agreements with local school districts throughout its service area to provide classroom instruction in the rural counties. With the majority of course offerings in the evening, and utilizing distance education technology, the college is able to provide courses leading to degrees and various occupational certificates and provide short-term training for businesses and industries. WNCC operates instructional centers in Fernley, Hawthorne, Lovelock, Smith Valley and Yerington.

Call (775) 423-5186

EMERGENCY MEDICAL SERVICES

WNCC's Emergency Medical Service courses are offered through the Division of Nursing and Allied Health. They include:

- Courses in CPR and first aid;
- First Responder training; and
- Emergency Medical Technician courses.

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. Courses are offered in CPR, first aid, management of roadside emergencies, and progressively structured stages of emergency care.

The selected courses are designed to meet the National Standard Curriculum published by the United States Department of Transportation, National Highway Traffic Safety Administration. Completion of selected courses is designed to prepare the student for eligibility to take the appropriate Nevada state EMS certification examination.

Call (775) 445-3296

INDUSTRIAL TECHNOLOGY PROGRAM

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

Call (775) 445-4270 or (775) 445-4466

WESTERN NEVADA STATE PEACE OFFICER ACADEMY

WNCC offers the Western Nevada State Peace Officer Academy which meets all Nevada requirements and is POST certified. Cadets who successfully complete the 30-week (33.5 credit) program will enhance their employability in attaining positions that require Category I certification (police, sheriffs, etc.); Category II certification (bailiffs, fire investigators, juvenile probation, etc.) and Category III certification (corrections, jailers, etc.).

The 796-hour program includes a combination of classroom, practical application and physical training. The cadets attend numerous law related classes, participate in defensive tactics, emergency vehicle operations course, DUI investigations, accident investigations and fingerprinting. In addition, cadets learn basic searching techniques, handcuffing methods, baton and firearms.

A new academy begins each January. Applications should be submitted no later than each preceding December 1.

Call (775) 445-4408

TEACHER EDUCATION PROGRAM

WNCC offers introductory courses in teacher education that can transfer to universities or colleges that offer a bachelor's degree in education including the University of Nevada, Reno and/or Nevada State College. These courses offer students a chance to explore a career in education. Successful completion of this set of courses prepares individuals to transfer with the emerging skills to thrive in a four-year program. Outcomes and performance-based assessments include portfolios and lesson plan presentations. Through a well-established partnership with local schools, field experiences are an integral and early part of all teacher preparation courses so that students can begin honing their skills in an authentic setting. These courses can also be used to gain a substitute license or by paraprofessionals needing to qualify under "No Child Left Behind" legislation.

Students can transfer to NSC for elementary education or to UNR to pursue a bachelor's degree and certification in:

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

During classes at WNCC, students will develop introductory skills in the Domains of Professional Competence which include: Knowledge of Students and Learning Environments, Subject Matter and Planning, etc. Small, individualized classes taught by highly qualified instructors provide an opportunity for students to be mentored into developing pedagogical skills and an individual teaching style.

Eligibility for eventual certification will require a TB test and a criminal background check that includes fingerprinting. Admittance to a four-year program will require passing a standardized test (PPST) and maintaining an above average GPA.

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

Teacher Education Program Mission & Outcomes

MISSION - The purpose of the teacher education transfer program is to provide content knowledge and pedagogy for transfer to a university for degree completion and certification.

STUDENT LEARNING OUTCOMES - Students in teacher education preparation are expected to demonstrate that they -

1. will provide evidence of sufficient knowledge in the academic content areas necessary for all elementary education courses.
 - a. assessment: evidence of completion of all elementary education courses with a minimum of a 2.5 GPA; passing scores on the PPST.
2. are able to interact appropriately with people from diverse backgrounds. Students will provide evidence of experiences that required appropriate interaction with children or adults in a teaching/learning situation.
 - a. assessment: two letters of reference that address qualifications and potential as a teacher;
 - b. evidence of successful experiences in practicum teaching and learning situations based on evaluations from teachers or community members who participated in student classroom and community fieldwork experiences.

ACADEMIC DEGREES

ACCOUNTING

Associate of Applied Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 15 credits.

ACC 201 **	Financial Accounting	3
& ACC 202	Managerial Accounting	3
BUS 101	Introduction to Business	3
or MGT 103	Small Business Management	
BUS 109B	Business Mathematics	3
or MATH	Higher level mathematics course	
MGT 201	Principles of Management	3
or COT 241	Office Supervision	
or MGT 212	Leadership & Human Relations	
or MGT 283	Personnel Administration	

Emphasis Requirements* - 27 credits.

ACC 203	Intermediate Accounting I	3
ACC 220	Microcomputer Accounting Systems	3
BUS 273	Business Law	3
COT 202	Introduction to Computer Applications	3
ECON 102	Principles of Macroeconomics	3
ECON 103	Principles of Microeconomics	3
IS 101	Introduction to Information Systems	3

Choose 6 credits from the following:

ACC 105	Taxation for Individuals	3
ACC 180B	Payroll and Employee Benefit Accounting	3
ACC 198B	Special Topics in Accounting	1-3
ACC 204	Intermediate Accounting II	3
ACC 251	Introduction to Auditing	3
ACC 261	Governmental Accounting	3
ACC 295B	Work Experience I	1-3
ACC 299B	Advanced Special Topics in Accounting	1-3
COT 262	Intermediate Spreadsheet Concepts	1-3

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

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

General Education Requirements* - 18 credits.

	Credits
English/Communications courses	6
(Must include a writing course; recommend BUS 107 and BUS 108)	
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	6
(COT 110, COT 113B, COT 200, COT 216, COT 262 or IS 201 are recommended)	

*A list of courses fulfilling general education requirements is on page 26.

ACCOUNTING TECHNICIAN

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements - 21 credits.

ACC 135B	Bookkeeping I	3
& ACC 136B	Bookkeeping II	3
or ACC 201	Financial Accounting	
& ACC 202	Managerial Accounting	
ACC 220	Microcomputer Accounting Systems	3
COT 202	Introduction to Computer Applications	3
IS 101	Introduction to Information Systems	3

Choose 3 credits from the following:

ACC 105	Taxation for Individuals	3
ACC 180B	Payroll and Employee Benefit Accounting	3
ACC 198B	Special Topics in Accounting	1-3
ACC 203	Intermediate Accounting I	3
ACC 251	Introduction to Auditing	3
ACC 261	Governmental Accounting	3
ACC 299B	Advanced Special Topics in Accounting	1-3

Choose 3 credits from the following:

COT 241	Office Supervision	3
MGT 201	Principles of Management	3
MGT 212	Leadership & Human Relations	3
MGT 283	Personnel Administration	3

General Education Requirements - 9 credits.

	Credits
BUS 109B or higher level mathematics course	3
English/Communications courses	6

(Must include a writing course; recommend BUS 107 and BUS 108)

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE - Accounting Technician

First Semester	Completed	Second Semester	Completed
ACC 135B or 201	3 ☐	ACC 136B or 202	3 ☐
BUS 108 or ENG/COMM	3 ☐	ACC 220	3 ☐
BUS 109B or higher MATH	3 ☐	Accounting Elective	3 ☐
IS 101	3 ☐	BUS 107 or ENG/COMM	3 ☐
MGT 201, 212, 283 or COT 241	3 ☐	COT 202	3 ☐

SUGGESTED COURSE SEQUENCE - Accounting

First Semester	Completed	Third Semester	Completed
ACC 201	3 ☐	ACC 203	3 ☐
BUS 108 or ENG/COMM	3 ☐	BUS 101 or MGT 103	3 ☐
BUS 109 or higher MATH	3 ☐	Accounting Elective	3 ☐
ECON 102	3 ☐	General Elective	3 ☐
IS 101	3 ☐	Science Elective	3 ☐
Second Semester	Completed	Fourth Semester	Completed
ACC 202	3 ☐	BUS 273	3 ☐
ACC 220	3 ☐	MGT 201, 212, 283 or	
BUS 107 or other		COT 241	3 ☐
ENG/COMM	3 ☐	Accounting Elective	3 ☐
COT 202	3 ☐	General Elective	3 ☐
ECON 103	3 ☐	U.S./Nev Constitutions	3 ☐

ACADEMIC DEGREES

APPLIED ACCOUNTING

Associate of Applied Science Emphasis

The Applied Accounting emphasis will provide students with an understanding of accounting. This area is designed for students who want to qualify for entry level bookkeeping positions.

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 15 credits.

	Credits
ACC 135B Bookkeeping I	3
& ACC 136B Bookkeeping II	3
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	
BUS 109B Business Mathematics	3
or MATH Higher level mathematics course	
MGT 201 Principles of Management	3
or COT 241 Office Supervision	
or MGT 212 Leadership & Human Relations	
or MGT 283 Personnel Administration	

Emphasis Requirements* - 27 credits.

	Credits
ACC 220 Microcomputer Accounting Systems	3
BUS 273 Business Law	3
COT 202 Introduction to Computer Applications	3
ECON 102 Principles of Macroeconomics	3
or ECON 103 Principles of Microeconomics	
IS 101 Introduction to Information Systems	3

Choose 12 credits from the following:

ACC 105 Taxation for Individuals	3
ACC 180B Payroll and Employee Benefit Accounting	3
ACC 198B Special Topics in Accounting	1-3
ACC 201 Financial Accounting	3
ACC 202 Managerial Accounting	3
ACC 251 Introduction to Auditing	3
ACC 261 Governmental Accounting	3
ACC 295B Work Experience I	1-3
ACC 299B Advanced Special Topics in Accounting	1-3
COT 262 Intermediate Spreadsheet Concepts	1-3

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

General Education Requirements* - 18 credits.

	Credits
English/Communications courses	6
(Must include a writing course; recommend BUS 107 and BUS 108)	
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	6
(COT 110, COT 200, COT 216, COT 262 or IS 201 are recommended)	

*A list of courses fulfilling general education requirements is on page 26.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
ACC 135B	3 ☐	ACC 201	3 ☐
BUS 101 or MGT 103	3 ☐	ACC 220	3 ☐
BUS 108 or other		MGT 201, 212, 283 or	
ENG/COMM	3 ☐	COT 241	3 ☐
BUS 109B or		Accounting Elective	3 ☐
higher MATH	3 ☐	Science Elective	3 ☐
IS 101	3 ☐		
		<i>Fourth Semester</i>	
<i>Second Semester</i>		ACC 202	3 ☐
ACC 136B	3 ☐	BUS 273	3 ☐
BUS 107 or other		Accounting Elective	3 ☐
ENG/COMM	3 ☐	General Elective	3 ☐
COT 202	3 ☐	U.S./Nev Constitution	3 ☐
COT 241, or			
MGT 201, 212, 283	3 ☐		
ECON 102 or 103	3 ☐		

ACADEMIC DEGREES

AUTOMOTIVE MECHANICS

Associate of Applied Science Program

The Automotive Mechanics program offers students an opportunity to acquire the necessary skills and technical theory for a successful career as an automotive mechanic. Individuals who are now employed in the automotive mechanics field will be able to upgrade their knowledge. Students obtaining this 60-credit associate degree will have completed courses of a very technical nature, chosen to complement each other and provide breadth and depth of diagnostic and repair skill abilities necessary to work in a service facility.

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 36 credits.

	Credits
AUTO 101B Introduction to General Mechanics	3
AUTO 102B Automotive Electricity	3
AUTO 121B Automotive Brake Systems	3
AUTO 125B Steering & Suspension System	3
AUTO 218B Tune-up Procedures	3
AUTO 223B Advanced Engine Tune-up	3
AUTO 225B Auto Air Conditioning Systems	3
AUTO 226B Automatic Transmissions	3
AUTO 236B Automotive Computer Systems	3
AUTO 250B Engine Reconditioning	3
Automotive or Technical courses	6

General Education Requirements* - 24 credits.

	Credits
English/Communications courses (Must include a writing course)	6
Human Relations course (BUS 110B recommended)	1-3
Humanities/Social Science course	3
Mathematics course	3
Science course	3
U.S./Nevada Constitutions course	3
Elective	3-5

*A list of courses fulfilling general education requirements is on page 26.

AUTOMOTIVE MECHANICS

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements - 18 credits.

	Credits
AUTO 101B Introduction to General Mechanics	3
AUTO 102B Automotive Electricity	3
AUTO 121B Automotive Brake Systems	3
AUTO 125B Steering & Suspension System	3
AUTO 218B Tune-up Procedures	3
AUTO 223B Advanced Engine Tune-up	3

General Education Requirements - 12 credits.*

	Credits
English/Communications courses (Must include a writing course)	6
Human Relations course (BUS 110B recommended)	1
Mathematics course	3
Elective	2

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
AUTO 101B	3 ☐	AUTO 226B	3 ☐
AUTO 121B	3 ☐	AUTO 250B	3 ☐
AUTO 218B	3 ☐	Science Elective	3 ☐
ENG Elective	3 ☐	AUTO Elective	3 ☐
MATH Elective	3 ☐	Elective	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
AUTO 102B	1 ☐	AUTO 225B	3 ☐
AUTO 125B	3 ☐	AUTO 236B	3 ☐
AUTO 223B	3 ☐	BUS 110B	3 ☐
ENG Elective	3 ☐	U.S./Nev Constitution	3 ☐
Human/Soc Sci Elective	3 ☐	AUTO Elective	3 ☐

ACADEMIC DEGREES

BIOPHYSICAL SCIENCES

Associate of Science Emphasis

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

DEGREE REQUIREMENTS - 62-63 credits

Emphasis Requirements - 38-39 credits.

		Credits
BIOL 190/L	Intro to Cell & Molecular Biology & Lab	4
BIOL 191/L	Intro to Organismal Biology & Lab	4
BIOL 208	Introduction to Human Genetics	3
CHEM 121	General Chemistry I	4
CHEM 122	General Chemistry II	4
CHEM 220	Introductory Organic Chemistry	4
MATH 181	Calculus I	4
STAT152	Intro to Statistics	3
or MATH 182	Calculus II	or 4
PHYS 151	General Physics I	4
PHYS 152	General Physics II	4

General Education Requirements* - 24 credits.

	Credits
English/Communications courses (Must include a writing course)	6
Fine Arts course	3
Humanities courses (CH 201 & CH 202 recommended)	6
Social Science courses	6
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 24.

NOTE: CAPS 122 is strongly recommended but not required for graduation. CHEM 201 & 202 are acceptable in lieu of CHEM 121 & 122. PHYS 180/180L and 181/181L are acceptable in lieu of PHYS 151 & 152. MATH 152 is required for a bachelor's degree in biology at University of Nevada, Reno. It is recommended that students pursuing other areas in science take MATH 182. BIOL 192 is acceptable in lieu of BIOL 190L and 191L.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
BIOL 190/190L	4 ☐	Humanities course	3 ☐
CHEM 121	4 ☐	PHYS 151	4 ☐
English course	3 ☐	Social Science courses	6 ☐
Fine Arts course	3 ☐	U.S./Nev Constitution	3 ☐
MATH 181	4 ☐		
<i>Second Semester</i>		<i>Fourth Semester</i>	
BIOL 191/191L	4 ☐	BIOL 208	3 ☐
BIOL 192	3 ☐	CHEM 220	4 ☐
CHEM 122	4 ☐	Humanities course	3 ☐
English course	3 ☐	PHYS 152	4 ☐
MATH 152 or 182	3-4 ☐		

BUSINESS PROGRAM

The Business Department at Western Nevada Community College provides students with the professional training necessary for careers in a variety of business fields and office environments. In the two-year program, which leads to an Associate of Applied Science degree, students may choose from several areas of study:

- Accounting
- Applied Accounting
- General Business
- Golf Facilities Management
- Management
- Real Estate

One-year certificate programs are offered in the following Business areas for students desiring more basic skills:

- Accounting Technician
- Business
- Golf Facilities Management
- Legal Office Specialist

Business programs are listed alphabetically.

Associate of Applied Science Degree in 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 programs in occupational areas are expected to demonstrate that they -

1. know the subject matter appropriate to the emphasis of the degree program.
2. are able to do the following:
 - a. demonstrate proficiency using technology in a business environment.
 - b. demonstrate an understanding of the accounting process and its importance to the business environment.
 - c. demonstrate effective oral, written, and computational skills appropriate to the business environment.
 - d. demonstrate managerial and personal skills essential to the current business environment.
 - e. utilize appropriate resources to remain current in the chosen occupational field.
3. have developed an appreciation of the importance of social, ethical, legal and diversity issues.

ACADEMIC DEGREES

GENERAL BUSINESS

Associate of Applied Science Emphasis

The General Business emphasis has been designed for students who desire general knowledge and skills in the field of business. Students who select the general business emphasis are encouraged to meet with a WNCC counselor to identify programs of study which best suit their career goals.

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 15 credits.

	Credits
ACC 135B Bookkeeping I	3
& ACC 136B Bookkeeping II	3
or ACC 201 Financial Accounting	
& ACC 202 Managerial Accounting	
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	
BUS 109B Business Mathematics	3
or MATH Higher level mathematics course	
MGT 201 Principles of Management	3
or MGT 212 Leadership & Human Relations	
or MGT 283 Personnel Administration	

Emphasis Requirements - 27 credits.

	Credits
BUS 273 Business Law	3
COT 202 Introduction to Computer Applications	3
COT 204 Using Windows	3
ECON 102 Principles of Macroeconomics	3
or ECON 103 Principles of Microeconomics	
IS 101 Introduction to Information Systems	3
Choose 12 credits from any of the following areas:	12
Accounting, Business, Computer and Office Technology, Computer Technology, Information Systems, Economics, Finance, Management, Marketing, or Real Estate.	

General Education Requirements* - 18 credits.

	Credits
English/Communications courses	6
(Must include a writing course; BUS 107 and BUS 108 are recommended)	
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	6
(COT 110, 113B, 200, 216, 262, or 266 recommended. Additional programming courses from emphasis area are also recommended.)	

*A list of courses fulfilling general education requirements is on page 26.

BUSINESS

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements - 18 credits.

	Credits
MGT 201 Principles of Management	3
or MGT 212 Leadership & Human Relations	
or MGT 283 Personnel Administration	
BUS Business elective	3

Choose 6 credits from the following classes:

ACC 135B Bookkeeping I	3
ACC 136B Bookkeeping II	3
ACC 201 Financial Accounting	3
ACC 202 Managerial Accounting	3
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	

Choose 6 credits from the following classes:

BUS 273 Business Law	3
COT 113B Integrated Software	3
COT 202 Introduction to Computer Applications	3
COT 204 Using Windows	3
ECON 102 Principles of Macroeconomics	3
ECON 103 Principles of Microeconomics	3
IS 101 Introduction to Information Systems	3

General Education Requirements - 12 credits.

	Credits
English/Communications courses	6
(Must include a writing course; BUS 108 is recommended)	
BUS 109B or higher level mathematics courses	3
General elective	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

First Semester	Completed	Third Semester	Completed
ACC 135B or 201	3 ☐	Business Elective	3 ☐
BUS 101 or MGT 103	3 ☐	COT 202	3 ☐
BUS 109B or MATH	3 ☐	MGT 201 or 212	3 ☐
BUS 107	3 ☐	Marketing Elective	3 ☐
Degree Elective	3 ☐	U.S./Nev Constitution	3 ☐
Second Semester		Fourth Semester	
ACC 136B or 202	3 ☐	COT Elective	3 ☐
BUS 273	3 ☐	Degree Elective	3 ☐
COT 204	3 ☐	BUS 108	3 ☐
ECON 102 or 103	3 ☐	Real Estate Elective	3 ☐
Science	3 ☐		

ACADEMIC DEGREES

CHEMISTRY

Associate of Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits

Emphasis Requirements - 36 credits.

	Credits
BIOL 191/191L Intro to Organismal Biology & Lab	4
CHEM 201 General Chemistry I for Scientists & Engineers	4
CHEM 202 General Chemistry II for Scientists & Engineers	4
CHEM 241 Organic Chemistry I	3
CHEM 242 Organic Chemistry II	3
CHEM 245 Organic Chemistry Laboratory	2
MATH 181 Calculus I	4
MATH 182 Calculus II	4
PHYS 151 General Physics I	4
PHYS 152 General Physics II	4

General Education Requirements* - 24 credits.

	Credits
English/Communications courses (Must include a writing course)	6
Fine Arts course	3
Humanities courses (CH 201 & CH 202 recommended)	6
Social Science courses	6
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 24.

NOTE: CAPS 122 is strongly recommended but not required for graduation. CHEM 121 & 122 are acceptable in lieu of CHEM 201 & 202. PHYS 180/180L and 181/181L are acceptable in lieu of PHYS 151 & 152. GEOL 101/103 recommended in addition to the above for those pursuing a bachelor's degree in geochemistry.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
BIOL 191/191L	4 ☐	CHEM 241	3 ☐
CHEM (121) 201	4 ☐	PHYS 151 (180/180L)	4 ☐
English course	3 ☐	Social Science courses	6 ☐
MATH 181	4 ☐	U.S./Nev Constitution	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
CHEM (122) 202	4 ☐	CHEM 242	3 ☐
English course	3 ☐	CHEM 245	2 ☐
Fine Arts course	3 ☐	Humanities courses	6 ☐
MATH 182	4 ☐	PHYS 152 (181/181L)	4 ☐

COMPUTER

TECHNOLOGY PROGRAM

WNCC's Computer Technology program is designed to offer students access to the rapidly changing and growing opportunities in the computer and information technology career field.

The college offers three Associate of Applied Science degrees:

- Networking Technology
- Office Technology
- Web Technology

The college offers three areas for Certificate of Achievement:

- Cisco Systems
- Microcomputer / Network Technician
- Network Administration

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

Computer Technology programs are listed alphabetically.

COMPUTER TECHNOLOGY

Cisco Systems

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 32-34 credits.

Core Requirements - 6 credits.

	Credits
COT 202 Introduction to Computer Applications	3
CIT 260 System Analysis & Design I	3

Subject Requirements - 16 credits.

	Credits
CSCO 120B Cisco Internetworking Academies I	4
CSCO 121B Cisco Internetworking Academies II	4
CSCO 220B Cisco Internetworking Academies III	4
CSCO 221B Cisco Internetworking Academies IV	4

General Education Requirements* - 10-12 credits.

	Credits
English/Communications courses (Must include a writing course)	6
Human Relations course	1-3
Math course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE - Cisco Systems

<i>First Semester</i>	Completed	<i>Second Semester</i>	Completed
COT 202	3 ☐	CIT 260	3 ☐
CSCO 120B	4 ☐	CSCO 220B	4 ☐
CSCO 121B	4 ☐	CSCO 221B	4 ☐
English Course	3 ☐	English Course	3 ☐
Human Relations Course	1-3 ☐	Math Course	3 ☐

ACADEMIC DEGREES

COMPUTER TECHNOLOGY Microcomputer/Network Technician Certificate of Achievement

The Microcomputer/Network Technician certificate is designed to provide a student with the skills required of 'Help Desk' or computer support personnel.

CERTIFICATE REQUIREMENTS - 33-35 credits.

Core Requirements - 6 credits.

		Credits
COT 202	Introduction to Computer Applications	3
ET 102B	Basic DC Electronics	3

Subject Requirements - 17 credits.

		Credits
CIT 110B	A+ Hardware	3
CIT 111B	A+ Software	3
CIT 112B	Network+	3
Choose 8 credits from:		
CIT 198B	Special Topics in CIT	4
CIT 211B	MCSE I Workstation	4
CIT 212B	MCSE II Server	4
CIT 213B	MCSE III Network Administration	4
CIT 214B	MCSE IV Directory Services Administration	4
CIT 215B	MCSE Elective	4-8

General Education Requirements*- 10-12 credits.

	Credits
English/Communications courses (Must include a writing course)	6
Math course	3
Human Relations course	1-3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE - Microcomputer/Network Technician

First Semester	Completed	Second Semester	Completed
CIT 110B	3 ☐	CIT 112B	3 ☐
CIT 111B	3 ☐	CIT 113B	4 ☐
CIT Elective	4 ☐	CIT 114B	4 ☐
English Course	3 ☐	CIT Elective	4 ☐
ET 102B	3 ☐	COT 202	3 ☐
Human Relations Course	3 ☐	English Course	3 ☐
		Math Course	3 ☐

COMPUTER TECHNOLOGY Network Administration Certificate of Achievement

CERTIFICATE REQUIREMENTS - 32-34 credits.

Core Requirements - 6 credits.

		Credits
CIT 260	System Analysis & Design I	3
COT 202	Introduction to Computer Applications	3

Subject Requirements - 16 credits.

		Credits
CIT 211B	MCSE I Workstation	4
CIT 212B	MCSE II Server	4
Choose 8 credits from:		
CIT 213B	MCSE III Network Administration	4
CIT 214B	MCSE IV Directory Services Administration	4
CIT 215B	MCSE Elective	4-8

General Education Requirements* - 10-12 credits.

	Credits
English/Communications courses (Must include a writing course)	6
Human Relations course	1-3
Math course	3

*A list of courses fulfilling general education requirements is on page 28.

MICROSOFT CERTIFICATION DATABASE ADMINISTRATION COURSES TO PREPARE FOR CERTIFICATION

		Credits
CIT 211B	MCSE I Workstation	3-5
CIT 212B	MCSE II Server	3-5
CIT 215B	MCSE Elective (SQL Design)	4-8

SUGGESTED COURSE SEQUENCE - Network Administration

First Semester	Completed	Second Semester	Completed
CIT 211B	4 ☐	CIT 213B	4 ☐
CIT 212B	4 ☐	CIT 214B	4 ☐
COT 202	3 ☐	CIT 260	3 ☐
English Course	3 ☐	English Course	3 ☐
Human Relations Course	3 ☐	Math Course	3 ☐

SUGGESTED COURSE SEQUENCE - Microsoft Certification/ Database Administration & Network Administration

First Semester	Completed	Second Semester	Completed
CIT 211B	3-5 ☐	CIT 215B	4-8 ☐
CIT 212B	3-5 ☐	CIT 260	3 ☐
COT 202	3 ☐	English Course	3 ☐
English Course	3 ☐	Math Course	3 ☐
Human Relations Course	3 ☐		

ACADEMIC DEGREES

COMPUTER TECHNOLOGY

Networking Technology*

*Subject to UCCSN Board of Regents approval
Associate of Applied Science Emphasis

The Computer Technology - Networking Technology emphasis 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.

DEGREE REQUIREMENTS - 59 credits.

Emphasis Requirements - 22 credits.

	Credits
CIT 161B Essentials of Information Security	3
CIT 211B MCSE I Workstation	4
CIT 212B MCSE II Server	4
CISCO 120B CISCO Internetworking Academies I	4
CISCO 121B CISCO Internetworking Academies II	4
IS 101 Introduction to Information Systems	3
Choose 3 credits from the following:	
CIT 201B Word Certification Preparation	1-3
or CIT 202B Excel Certification Preparation	1-3
or CIT 203B Access Certification Preparation	1-3
or CIT 204B PowerPoint Certification Preparation	1-3

Specialization Requirements - 16 credits.

Choose 16 credits from one of the following three specializations:

Network Technology Management

CIT 260 Systems Analysis and Design	3
CISCO 130B Fundamentals of Wireless LANs FWL	4
MGT 212 Leadership and Human Relations	3
or MGT 283 Personnel Administration	

Choose two of the following:

CIT 180B Database Concepts and SQL	3
CIT 213B MCSE III	4
CIT 215B MCSE Elective	4
CIT 255B Web Server Administration I	3
CIT 256B Web Server Administration II	3
CISCO 220B CISCO Internetworking Academies III	4
CISCO 221B CISCO Internetworking Academies IV	4

Security and Information Assurance

Any CA, CIT, COT, CISCO or IS course	1
STAT 152 Introduction to Statistics	3
Choose four courses from the following:	
CIT 173B Linux Installation and Configuration	3
CIT 264B Operating System Security	3
CIT 265B Infrastructure Security	3
CIT 266B Operational/Organizational Security	3
CIT 267B Communication Security	3
CIT 268B Cryptography	3

Customized Option - Students may take 16 credits in this option, depending upon the specialization or the requirements of the four-year transfer institution. Prior department approval required. More than 16 credits may be required.

General Education Requirements - 21 credits.

	Credits
English/Communications courses (Must include a writing course; ENG 107 recommended)	6
Humanities/Social Science Course	3
Human Relations course (MGT 201, MGT 212 or MGT 283 recommended)	3

MATH 126	Pre-calculus I (or higher)	3
Science course	(PHYS 107B recommended)	3
U.S./Nevada Constitutions course		3

*A list of courses fulfilling general education requirements is on page 26.

SUGGESTED COURSE SEQUENCE - Networking Technology Management Specialization

First Semester	Completed	Third Semester	Completed
CISCO 120B CCNA I	4 ☐	CIT 211B MCSE I	4 ☐
CISCO 121B CCNA II	4 ☐	CIT 212B MCSE II	4 ☐
English	3 ☐	Degree Elective	3 ☐
IS 101	3 ☐	MGT 201	3 ☐
MATH 126	3 ☐		
Second Semester		Fourth Semester	
CIT 201B-204B	1 ☐	CIT 161B	3 ☐
CIT 260	3 ☐	Degree Elective	3 ☐
CISCO 130B	4 ☐	Humanities/SS	3 ☐
English	3 ☐	Human Relations	3 ☐
U.S./Nev. Constitution	3 ☐	Science	3 ☐

SUGGESTED COURSE SEQUENCE - Securities & Information Assurance Specialization

First Semester	Completed	Third Semester	Completed
CISCO 120B CCNA I	4 ☐	CIT 211B MCSE I	4 ☐
CISCO 121B CCNA II	4 ☐	CIT 212B MCSE II	4 ☐
English	3 ☐	Degree Elective	3 ☐
IS 101	3 ☐	STAT152	3 ☐
MATH 126	3 ☐		
Second Semester		Fourth Semester	
CIT 260	3 ☐	Computer Elective	2 ☐
CIT 161B	3 ☐	Degree Elective	3 ☐
Humanities/SS	3 ☐	Degree Elective	3 ☐
English	3 ☐	Human Relations	3 ☐
U.S./Nev. Constitution	3 ☐	Science	3 ☐

Networking Technology Emphasis Mission & Outcomes

MISSION - The purpose of the Networking Technology Emphasis is to offer a highly responsive program 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 an AAS in Networking Technology are expected to demonstrate that they:

- know:
 - the principles, theories, and best practices appropriate to the degree emphasis.
 - the competencies required to successfully pass information technology certification exams.
- are able to:
 - apply the principles, theories, and best practices appropriate to the degree emphasis.
 - 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 and value:
 - the importance of ethics in their professional and personal lives.
 - the need for continuing education and lifelong learning.

ACADEMIC DEGREES

COMPUTER TECHNOLOGY

Office Technology*

*Subject to UCCSN Board of Regents approval
Associate of Applied Science Emphasis

The Computer Technology - Office Technology emphasis is designed for those seeking specific career skills in office environments. Students choose one of four specializations to customize their program: Administrative Assistant, Desktop Publishing, Medical Office Transcription, or Medical Office Billing.

DEGREE REQUIREMENTS - 60 credits.

Emphasis Requirements - 27 credits.

Credits

Strongly recommend 40wpm typing skills for successful degree completion.

ACC 135B	Bookkeeping I	3
ACC 136B	Bookkeeping II	3
or ACC 201	Financial Accounting	
BUS 101	Introduction to Business	3
CIT 161B	Essentials of Information Security	3
COT 204	Using Windows	3
COT 290B	Internship in Computer Office and Technology	3
IS 101	Introduction to Information Systems	3
IS 201	Introduction to Computer Applications	3

Choose 3 credits from the following:

CIT 201B	Word Certification Preparation	1-3
CIT 202B	Excel Certification Preparation	1-3
CIT 203B	Access Certification Preparation	1-3
CIT 204B	Powerpoint Certification Preparation	1-3
CIT 206B	MS Microsoft Outlook Certification Preparation	1-3

Specialization Requirements - 12 credits.

Choose 12 credits from one of the following four specializations:

Administrative Assistant

ACC 220	Computer Accounting	3
COT 207B	Business Applications on the Internet	3
COT 216	Intermediate Word Processing	3
or COT 222	Desktop Publishing with Word Processing	
CIT 206B	MS Microsoft Outlook Certification Preparation	1-3
or CIT 205B	MS Microsoft Project Certification Preparation	1-3
or COT 140B	Adobe Acrobat	1

Desktop Publishing

CIT 151	Beginning Web Development	3
or GRC 175	Web Design and Publishing I	
COT 222	Desktop Publishing with Word Processing	3
COT 223	Advanced Desktop Publishing	3
GRC 144B	Electronic Layout and Typography	3
or ART 243	Digital Imaging I	
or COT 217B	Office Publications	

Medical Office Transcription

COT 122	Medical Typing and Transcription	3
COT 124B	Medical Terminology	3
COT 233B	Advanced Medical Transcription	3
COT 225B	Medical Front Office	3

Medical Office Billing

COT 114B	Medical Office Billing	3
COT 115B	Computerized Medical Office Billing	3
COT 124B	Medical Terminology	3
COT 225B	Medical Front Office	3

General Education Requirements - 21 credits.

Credits

English/Communications courses	6
(Must include a writing course; BUS 107 & 108 recommended)	
Humanities/Social Science Course	3
Human Relations course	3
(MGT 201, 212 or 283 recommended)	
Science course (BIOL 200 recommended for medical specialization)	3
Mathematics course (BUS 109B recommended)	3
U.S./Nevada Constitutions course	3

Note: ACC 202 is acceptable in lieu of ACC 135B

*A list of courses fulfilling general education requirements is on page 26.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
ACC 135B	3 ☐	Human Relations	3 ☐
BUS 109B	3 ☐	IS 201	3 ☐
(Mathematics requirement)		Science Course	3 ☐
BUS 101	3 ☐	Specialty Choice	3 ☐
ENG 101	3 ☐	Specialty Choice	3 ☐
IS 101	3 ☐		
<i>Second Semester</i>		<i>Fourth Semester</i>	
ACC 136B or ACC 201	3 ☐	CIT 161B	3 ☐
BUS 108	3 ☐	COT 290B	3 ☐
BUS 107	3 ☐	Humanities/Social Science	3 ☐
CIT 201B- 205B	3 ☐	Specialty Choice	3 ☐
(Certification Series)		U.S./Nev Constitution	3 ☐
COT 204	3 ☐		

Computer Technology - Office Technology Emphasis

Mission & Outcomes

MISSION - Provide office technology courses for traditional college students and transitional employees. The program will prepare students with the necessary skills for entry level employment in a professional business office environment using current software applications. Some courses can transfer to baccalaureate programs with university-parallel content.

STUDENT LEARNING OUTCOMES - Students who complete an AAS in Computer Technology with an Office Technology Emphasis are expected to demonstrate that they:

- know:
 - the core of general office practices and procedures.
 - the entry level skill set for their specialty area of the degree emphasis.
- are able to:
 - test successfully on certification standards of this specialty program area.
 - demonstrate communication appropriate to a business office environment.
 - demonstrate computation skills appropriate to the chosen specialty area.
 - utilize appropriate resources to remain current in the chosen occupational field.
- appreciate and value:
 - appropriate and effective presentation of themselves to potential employers.
 - standards of social, ethical, legal and diversity issues of an office environment.
 - commitment to ongoing learning of their field's technology and practices.

ACADEMIC DEGREES

COMPUTER TECHNOLOGY

Web Technology*

*Subject to UCCSN Board of Regents approval
Associate of Applied Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Emphasis Requirements - 24 credits.

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

Specialization Requirement - 12 credits.

Choose 12 credits from one of the following four specializations:

Web Administration

CIT 220B E-Commerce on the Web	3
CIT 255B Web Server Administration I	3
CIT 256B Web Server Administration II	3
CIT 290B Internship in CIT	3
or CIT 295B Specialty Related Capstone Project	

Web Design

CIT 157B Graphics for the Web	3
CIT 251 Advanced Web Design	3
CIT 290B Internship in CIT	3
or CIT 295B Specialty Related Capstone Project	
GRC 188 Web Animation and Interactivity I	3

Web Programming

CIT 180B Database Concepts and SQL	3
CIT 251 Advanced Web Development	3
CIT 252B Web Database Development	3
CIT 290B Internship in CIT	3
or CIT 295B Specialty Related Capstone Project	

Customized Option - Students may take 12 credits in this option, depending upon the specialization or the requirements of the four-year transfer institution. Prior department approval required. More than 12 credits may be required.

General Education Requirements - 24 credits.

	Credits
English/Communications courses (ENG 107 recommended)	6
Humanities/Social Science course	3
Mathematics course (BUS 109B recommended)	3
Human Relations course (MGT 201, 212 or 283 recommended)	3
Science course	3
U.S./Nevada Constitutions course	3
General Elective	3

*A list of courses fulfilling general education requirements is on page 26.

SUGGESTED COURSE SEQUENCE- Web Administration Specialization

First Semester	Completed	Third Semester	Completed
English Course	6 ☐	CIT 255B	3 ☐
CIT 129	3 ☐	CIT 220	3 ☐
CIT 151 or GRC 175	3 ☐	CIT 161B	3 ☐
IS 101	3 ☐	Math	3 ☐
		U.S./Nev Constitution	3 ☐
Second Semester		Fourth Semester	
English Course	6 ☐	CIT 256B	3 ☐
CIT 152B	3 ☐	CIT 290B or CIT 295B	3 ☐
CIT 260	3 ☐	Computer Tech Elective	3 ☐
CIT 201B/202B/203B	3 ☐	Human Relations	3 ☐
(1 credit each)		Science	3 ☐

SUGGESTED COURSE SEQUENCE-Web Design Specialization

First Semester	Completed	Third Semester	Completed
General Education Course	6 ☐	General Education Course	6 ☐
IS 101	3 ☐	GRC 188	3 ☐
CIT 129	3 ☐	CIT 157B	3 ☐
CIT 151 or GRC 175	3 ☐	CIT 161B	3 ☐
Second Semester		Fourth Semester	
General Education Course	6 ☐	General Education Course	6 ☐
CIT 201B/202B/203B	3 ☐	CIT 251	3 ☐
(1 credit each)		CIT 290 or 295	3 ☐
CIT 152B	3 ☐	Computer Tech Elective	3 ☐
CIT 260	3 ☐		

SUGGESTED COURSE SEQUENCE - Web Programming Specialization

First Semester	Completed	Third Semester	Completed
General Education Course	6 ☐	General Education Course	6 ☐
IS 101	3 ☐	CIT 180	3 ☐
CIT 129	3 ☐	CIT 251	3 ☐
CIT 151 or GRC 175	3 ☐	CIT 260	3 ☐
Second Semester		Fourth Semester	
General Education Course	6 ☐	General Education Course	6 ☐
CIT 152	3 ☐	CIT 252	3 ☐
CIT 161B	3 ☐	CIT 290B or CIT 295B	3 ☐
CIT 201B/202B/203B	3 ☐	Computer Tech Elective	3 ☐
(1 credit each)			

Computer Technology - Web Technology Emphasis

Mission & Outcomes

MISSION - The purpose of the Web Technology Emphasis is to prepare students with skills for entry-level employment in web site based occupations. In addition, many courses can transfer to baccalaureate programs in web technology and related fields.

STUDENT LEARNING OUTCOMES - Students who complete an AAS in Computer Technology with a Web Technology Emphasis are expected to demonstrate that they:

- know: the theoretical principles behind creating and maintaining a professional level web site.
- are able to:
 - use current software to create, publish, and maintain a professional level web site.
 - apply techniques appropriate to their specialty in operation of a web site.
 - successfully complete an entry level industry standard certification exam appropriate to their specialty.
- appreciate and value:
 - the concepts of accessibility and equal access to all as they pertain to web development.
 - the principle of lifelong learning as it applies to maintaining skill levels.
 - the importance of social, ethical, legal and accessibility issues in their area.

ACADEMIC DEGREES

CONSTRUCTION TECHNOLOGY PROGRAM

The Construction Technology program prepares students for entry and mid-level positions 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 program offers instruction in several academic areas which are critical to preparing skilled employees. See academic degrees in the following areas:

- Construction Science
- Craft Training
- Construction Project Management

The college also offers classes toward licensure in:

- Certified Inspector of Structures

Up to three years of a four-year bachelor's degree in Construction Science is also available. Construction Technology programs are listed alphabetically.

CONSTRUCTION TECHNOLOGY

STATE OF NEVADA

CERTIFIED INSPECTOR OF STRUCTURES

REQUIREMENTS - 10 credits required for this license. Credits

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

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

CONSTRUCTION PROJECT MANAGEMENT

Associate of Applied Science Emphasis

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.

DEGREE REQUIREMENTS - 60 credits required.

Core Requirements - 14 credits.

CONS 102B	Blueprint Reading & Specifications	3
CONS 108B	Construction Practices	3
CONS 112B	Construction Law	1
CONS 113B	Construction Site Safety	1
CONS 115B	Construction Estimating	3
CONS 117B	Introduction to Building Codes	3

Emphasis Requirements - 24 credits.

CONS 114B	Soils, Sitework, Concrete and Testing	3
CONS 116B	Plumbing and HVAC Systems	2
CONS 118B	Bid Documents, Contracts & Negotiation	3
CONS 119B	Construction Surveying	2
CONS 204B	Construction Planning and Methods	3
CONS 216B	Structural Layout and Assembly	2
CONS 220B	Electrical Distribution Systems	2
CONS 221B	Regulatory Agencies	1
CONS 222B	Computer Applications	3
CONS 290B	Internship in Construction	3

General Education Requirements - 22 credits.

	Credits
English/Communications courses (BUS 107 and 108 recommended)	6
Human Relations course (BUS 110B recommended)	1-3
Humanities/Social Science course	3
Mathematics course (MATH 110B recommended)	3
Science course (PHYS 100 recommended)	3
U.S. and Nevada Constitution course	3
Degree Electives	1-3

*A list of courses fulfilling general education requirements is on page 26.

SUGGESTED COURSE SEQUENCE - Construction Project Management

First Semester	Completed	Third Semester	Completed
BUS 107	3 ☐	CONS 116B	3 ☐
CONS 102B	3 ☐	CONS 118B	3 ☐
CONS 108B	3 ☐	CONS 119B	2 ☐
CONS 113B	1 ☐	CONS 220B	2 ☐
CONS 114B	3 ☐	CONS 221B	1 ☐
MATH 110B	3 ☐	PHYS 100	3 ☐
		U.S./Nev Constitution	3 ☐
Second Semester		Fourth Semester	
BUS 108	3 ☐	BUS 110B	1-3 ☐
CONS 112B	1 ☐	CONS 204B	3 ☐
CONS 115B	3 ☐	CONS 222B	3 ☐
CONS 117B	3 ☐	CONS 290B	3 ☐
CONS 216B	2 ☐	Degree Elective	1-3 ☐
Human/Soc Sci Course	3 ☐		

ACADEMIC DEGREES

CONSTRUCTION SCIENCE

Bachelor of Technology Degree
A partnership program of WNCC and UNR

WNCC offers up to three years of a four-year bachelor's degree in Construction Science. Students may then transfer to University of Nevada, Reno for the final year, where the degree will be issued. This program is designed to prepare students for employment and management opportunities in the construction field. Please see a WNCC counselor for more information.

SUGGESTED COURSE SEQUENCE - Construction Science

<i>First Semester</i>	Completed	<i>Fourth Semester</i>	Completed
CONS 102B	3 ☐	ACC 201	3 ☐
CONS 108B	3 ☐	CH 201	3 ☐
CONS 113B	1 ☐	CONS 204B	3 ☐
CONS 114B	3 ☐	CONS 222B	3 ☐
ECON 102	3 ☐	CONS 290B	2 ☐
ENG 101	3 ☐	ENV 100	3 ☐
<i>Second Semester</i>		<i>Fifth Semester</i>	
CONS 112B	1 ☐	CH 203	3 ☐
CONS 115B	3 ☐	CONS 280B	5 ☐
CONS 117B	3 ☐	ECON 261	3 ☐
CONS 216B	2 ☐	IS 100	3 ☐
ECON 103	3 ☐	PSY 101	3 ☐
ENG 102	3 ☐		
<i>Third Semester</i>		<i>Sixth Semester</i>	
CONS 116B	2 ☐	CONS 225B	3 ☐
CONS 118B	3 ☐	CONS 281B	4 ☐
CONS 119B	2 ☐	ECON 262	3 ☐
CONS 220B	2 ☐	PHYS 100	3 ☐
CONS 221B	1 ☐		
MATH 128	5 ☐		

CRAFT TRAINING

Associate of Applied Science Emphasis

The Craft Training emphasis is designed for those seeking careers within the many high paying crafts of the construction industry. The standardized competency-based training was developed by the National Center for Construction Education and Research and is recognized by many builders associations nationwide. Students are encouraged to contact such builders associations regarding apprenticeship status as on-job training is an essential element of craft training.

DEGREE REQUIREMENTS - 60-61 credits required.

Core Requirements - 4 credits		Credits
CONS 113B	Construction Site Safety	1
CT 101B	Craft Training Basics	3

Concentration Requirements - 35-36 credits		Credits
(Pick one Concentration)		
Carpentry		36
Electrical		36
Heavy Equipment Operation		35
HVAC		36
Masonry		35
Plumbing		36
Sheet Metal		36

General Education Requirements* - 20-21 credits		Credits
English/Communications course		6
(BUS 107 and BUS 108 recommended)		
Human Relations course (BUS 110B recommended)		1-3
Humanities/Social Science course		3
Mathematics course (MATH 110B recommended)		3
Science course (PHYS 107B recommended)		3
U.S. and Nevada Constitution course		3
Electives		0-1

*A list of courses fulfilling general education requirements is on page 26.

Contact the Division of Business & Technology for course descriptions, outlines and other related information. Up to 15 credits of approved Bureau of Apprenticeship Training and/or State Apprenticeship Council training may be substituted for craft-training courses. Up to six credits of work experience may be substituted for craft training courses.

MASTER COURSE SCHEDULE - CRAFT TRAINING

STUDENTS WHO ARE INTERESTED IN THESE COURSES
CONTACT CONSTRUCTION TECHNOLOGY INSTRUCTOR
BILL ONEY FOR DETAILS AT 445-3353.

Classes vary on an individual basis; courses are offered on a basis of need.

ACADEMIC DEGREES

CRIMINAL JUSTICE PROGRAM

WNCC offers a number of associate degrees and certificates of achievement in the field of criminal justice.

They include:

- Corrections
- Criminal Justice Transfer Program
- Juvenile Justice
- Law Enforcement
- Law Enforcement/Police Academy
- Legal Assistant

Criminal Justice programs are listed alphabetically.

CORRECTIONS

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Core Requirements - 12 credits.

		Credits
CRJ 101	Introduction to Criminal Justice I	3
CRJ 164	Principles of Investigation	3
CRJ 230	Criminal Law	3
CRJ 270	Introduction to Criminology	3

Subject Requirements - 9 credits.

Credits

CRJ 106	Introduction to Corrections	3
CRJ 215	Probation and Parole I	3
Choose 3 credits from Corrections Emphasis requirements		3

General Education Requirements - 9 credits.

	Credits
English/Communications courses	6
(Must include a writing course; ENG 101 is recommended)	
Mathematics course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CRJ 101	3 ☐	COM 113	3 ☐
CRJ 106	3 ☐	CPD 116	3 ☐
CRJ 155	3 ☐	CRJ 230	3 ☐
ENG 101	3 ☐	CRJ 270	3 ☐
U.S./Nev Constitution	3 ☐	Math Course	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
COT 105	3 ☐	CPD 117	3 ☐
CRJ 102	3 ☐	CRJ 164	3 ☐
CRJ 103	3 ☐	CRJ 215	3 ☐
CRJ 220	3 ☐	English course	3 ☐
Science Course	3 ☐	Humanities Course	3 ☐

CORRECTIONS

Associate of Applied Science Emphasis

The Corrections emphasis is designed to prepare students for careers within the field of criminal justice where they are involved with the supervision and rehabilitation of convicted offenders. Courses completed through P.O.S.T. training may be applied toward this degree or certificate.

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 18 credits.

Credits		
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

Emphasis Requirements - 18 credits.

CRJ 106	Introduction to Corrections	3
CRJ 215	Probation and Parole I	3
Choose 12 credits from any of the following:		
Any other Criminal Justice course except CRJ 110B		1-9
Any Psychology or Sociology course except PSY 210 or SOC 210		1-6
Any foreign language		1-6
BUS 107, 108		3-6
COM 113		3
COT 105, 113, 2023-6		
CPD 116, 117		3
CRJ 295B Work Experience - Corrections		1-6
IS 101		3
MGT 201, 212, 235, 283		3-6
SW 220, 230		3-6

General Education Requirements* - 24 credits.

	Credits
English/Communications courses	6
(Must include a writing course; ENG 101 recommended)	
Humanities course	3
Mathematics course	3
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	6

*A list of courses fulfilling general education requirements is on page 26.

ACADEMIC DEGREES

CRIMINAL JUSTICE

Associate of Arts Transfer Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 21-24 credits.		Credits
CRJ 101	Introduction to Criminal Justice I	3
CRJ 102	Introduction to Criminal Justice II	3
CRJ 106	Introduction to Corrections	3
CRJ 164	Principles of Investigation	3
CRJ 211	Police in America	3
CRJ 222	Criminal Law and Procedure	3
or CRJ 220	Criminal Procedures	3
& CRJ 230	Criminal Law	3
CRJ 270	Introduction to Criminology	3

General Education Requirements* - 36-39 credits.		Credits
ENG 101	Composition I	3
ENG 102	Composition II	3
Fine Arts course		3
Humanities courses		6
Mathematics course		3
Science courses		6
Social Science course		3
U.S./Nevada Constitutions course		3
Degree Electives		6-9

(Recommend Spanish courses (up to eight credits), ANTH 101, CPD 116, 117, PSY 101, PSY 233, PSY 234, PSY 280, SOC 101, SW 230)

*A list of courses fulfilling general education requirements is on page 23.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CRJ 101	3 ☐	CPD 117	3 ☐
CRJ 106	3 ☐	CRJ 211	3 ☐
ENG 101	3 ☐	CRJ 270	3 ☐
Math course	3 ☐	Humanities course	3 ☐
U.S./Nev Constitution course	3 ☐	Science course	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
CRJ 102	3 ☐	ANTH 101	3 ☐
CRJ 164	3 ☐	CRJ 222	3 ☐
ENG 102	3 ☐	Fine Arts course	3 ☐
PSY 101	3 ☐	Humanities course	3 ☐
Science course	3 ☐	Social Science course	3 ☐

DRAFTING TECHNOLOGY - ARCHITECTURAL

Associate of Applied Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 12 credits.		Credits
DFT 100	Basic Technical Drawing	3
DFT 131	Intro to Computer Aided Drafting	3
DFT 133	Intermediate Computer Aided Drafting	3
DFT 230B	Advanced Computer Aided Drafting	3

Emphasis Requirements - 24 credits.

		Credits
CONS 102B	Blueprint Reading and Specifications	3
CONS 108B	Construction Practices	3
CONS 117B	Introduction to Building Codes	3
DFT 105B	Architectural Drafting I	3
DFT 135B	Architectural Computer Aided Drafting	3

Capstone Course

DFT 231B	CAD Project	3
or DFT 290B	Cooperative Education / Work Experience	

Choose 6 credits from the following:

CONS 112B	Construction Law	1
CONS 114B	Soils, Site work, Concrete and Testing	3
CONS 115B	Construction Estimating	3
CONS 118B	Bid Documents, Contracts and Negotiation	3
CONS 124B	Interior and Exterior Treatments	1
CONS 221B	Regulatory Agencies	1
COT 204	Using Windows	3
DFT 198B	Special Topics of Drafting	3
DFT 225B	Independent Study	3
DFT 231B	CAD Project	3
DFT 290B	Cooperative Education / Work Experience*	3

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

General Education Requirements* - 24 credits.

		Credits
English/Communications courses (BUS 108 recommended)		6
Human Relations course (BUS 110B recommended)		3
Mathematics course (MATH 127 or higher)		3
Science Course (Physics recommended)		3
Social Science / Humanities course		3
U.S. / Nevada Constitution course		3
Elective		3

*A list of courses fulfilling general education requirements is on page 26.

ACADEMIC DEGREES

DRAFTING TECHNOLOGY - ARCHITECTURAL

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 31 credits.

Subject Requirements - 21 credits.

		Credits
DFT 100	Beginning Technical Drawing	3
CONS 102B	Blueprint Reading & Specifications	3
DFT 105B	Architectural Drafting I	3
DFT 131	Beginning Computer Aided Drafting	3
DFT 133	Intermediate Computer Aided Drafting	3
Drafting electives		6

General Education Requirements* - 10 credits.

	Credits
English/Communications courses (BUS 108 is recommended; Must include a writing course)	6
Human Relations course	1
MATH 110B**, 127 or higher level math course, except STAT 152	3

*A list of courses fulfilling general education requirements is on page 28.

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

SUGGESTED COURSE SEQUENCE - Drafting Technology - Architectural

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CONS 102B	3 ☐	DFT 135B	3 ☐
DFT 100	3 ☐	DFT 230B	3 ☐
DFT 105B	3 ☐	DFT Elective	3 ☐
DFT 131	3 ☐	MATH Course	3 ☐
ENG Course	3 ☐	U.S./Nev Constitutions	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
CONS 108B	3 ☐	Capstone Course	3 ☐
DFT 133	3 ☐	CONS 117B	3 ☐
ENG Course	3 ☐	DFT Elective	3 ☐
MATH Course	3 ☐	Human Relations Course	3 ☐
Social Science Course	3 ☐	Science Course	3 ☐

DRAFTING TECHNOLOGY - MECHANICAL

Associate of Applied Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 12 credits.

DFT 100	Basic Technical Drawing	3
DFT 131	Intro to Computer Aided Drafting	3
DFT 133	Intermediate Computer Aided Drafting	3
DFT 230B	Advanced Computer Aided Drafting	3

Emphasis Requirements - 24 credits.

COT 204	Using Windows	3
DFT 102	Technical Drafting I	3
DFT 103B	Technical Drafting II	3
DFT 124B	Blueprint Reading for Industry	3
DFT 233B	Solid Modeling and Parametric Design (Inventor Solid Works)	3

Capstone Course

DFT 231B	CAD Project	3
or DFT 290B	Cooperative Education/Work Experience	

Choose 6 credits from the following:

DFT 203B	Technical Drafting III	3
DFT 204B	Technical Drafting IV	3
DFT 225B	Independent Study	3
DFT 231B	CAD Project	3
DFT 233	Solid Modeling and Parametric Design* (Inventor Solid Works)	3
DFT 290B	Cooperative Education / Work Experience*	3
MTT 105B	Machine Shop I	3

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

General Education Requirements* - 24 credits.

	Credits
English/Communications courses (BUS 108 is recommended)	6
Human Relations course (BUS 110B recommended)	3
Mathematics course (MATH 127 or higher)	3
Social Science / Humanities course	3
U.S. / Nevada Constitution course	3
Science Course (Physics recommended)	3
Elective	3

*A list of courses fulfilling general education requirements is on page 26.

ACADEMIC DEGREES

DRAFTING TECHNOLOGY - MECHANICAL

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 31 credits.

Subject Requirements - 21 credits.

		Credits
DFT 100	Beginning Technical Drawing	3
DFT 103B	Technical Drafting II	3
DFT 124B	Blueprint Reading for Industry	3
DFT 131	Beginning Computer Aided Drafting	3
DFT 133	Intermediate Computer Aided Drafting	3
Drafting electives		6

General Education Requirements* - 10 credits.

	Credits
English/Communications courses (BUS 108 is recommended; Must include a writing course)	6
Human Relations course	1
MATH 110B**, 127 or higher level math course, except STAT152	3

*A list of courses fulfilling general education requirements is on page 28.

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

SUGGESTED COURSE SEQUENCE - Drafting Technology - Mechanical

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
COT 204	3 ☐	DFT 103B	3 ☐
DFT 100	3 ☐	DFT 230B	3 ☐
DFT 124B	3 ☐	DFT Elective	3 ☐
DFT 131	3 ☐	MATH Course	3 ☐
ENG Course	3 ☐	U.S./Nev Constitutions	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
DFT 102	3 ☐	Capstone Course	3 ☐
DFT 133	3 ☐	DFT 233	3 ☐
ENG Course	3 ☐	DFT Elective	3 ☐
MATH Course	3 ☐	Human Relations Course	3 ☐
Social Science Course	3 ☐	Science Course	3 ☐

EARLY CHILDHOOD EDUCATION

WNCC'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 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; and as home day care providers.

Certificate of Achievement & Associate of Applied Science Degree in

Early Childhood Education Mission & Outcomes

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:

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

Associate of Applied Science

MISSION - The Associate of Applied Science degree in Early Childhood Education will provide the academic knowledge and skills 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:

1. know the subject matter appropriate to early childhood education.
2. are able to do the following:
 - a. organize and implement developmentally appropriate environments for curriculum for young children.
 - b. demonstrate supervisory and administrative skills including lead teaching, budgeting and the development of parent/teacher relationships.
 - c. meet current educational criteria for employment in publicly funded early childhood programs.
 - d. be aware of community child and family service agencies.
3. have developed an appreciation of the following:
 - a. the importance of advocating for child and family related issues at the community and legislative level.
 - b. the benefits of participation in early childhood professional organizations.

ACADEMIC DEGREES

EARLY CHILDHOOD EDUCATION

Associate of Applied Science Program

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.

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 36 credits.

	Credits
COT 105 Computer Literacy	3
or COT 202 Intro to Computer Applications	
or IS 101 Intro to Information Systems	
ECE 121 Parent-Caregiver Relationships	1
ECE 122 Observation Skills	1
ECE 129 Environments for Infants/Toddlers	1
ECE 131 Intro to Teaching the Young Child	3
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 the Preschool	3
ECE 251 Curriculum in Early Childhood	3
HDFS 201 Lifespan Human Development	3

Choose 6 credits from the following:

Other related Early Childhood Education courses (ECE 123 and ECE 168 are recommended)	1-6
HDFS 202 Introduction to Families	3
HDFS 232 Diversity & Young Child/Multicultural Perspective	3
Psychology courses (except Statistical Methods)	1-3

General Education Requirements* - 24 credits.

	Credits
English/Communications courses (Must include a writing course; BUS 108 is recommended)	6
Humanities/Social Science course	3
Mathematics course (BUS 109B is recommended)	3
Science course (HEC 121 is recommended)	3
U.S./Nevada Constitutions course	3
Electives	6

*A list of courses fulfilling general education requirements is on page 26.

EARLY CHILDHOOD EDUCATION

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

The following courses may be taken in any sequence. However, ECE 131 is a recommended prerequisite.

Subject Requirements - 21 credits.

	Credits
ECE 121 Parent-Caregiver Relationships	1
ECE 122 Observation Skills	1
ECE 129 Environments for Infants/Toddlers	1
ECE 131 Intro to Teaching the Young Child	3
ECE 204 Principles of Child Guidance	3
ECE 231 Preschool Practicum: Early Childhood Lab	3
ECE 251 Curriculum in Early Childhood	3
HDFS 201 Lifespan Human Development	3

Choose 3 credits from related courses in any of the following subject areas:

Early Childhood Education	1-3
Psychology	1-3
Human Development and Family Studies	1-3

General Education Requirements* - 9 credits.

	Credits
English/Communications courses	6

(Must include a writing course; BUS 108 is recommended)

Mathematics course (BUS 109B is recommended) 3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
ECE 121	1 ☐	BUS 108	3 ☐
ECE 122	1 ☐	ECE 204	3 ☐
ECE 129	1 ☐	ECE 231	6 ☐
ECE 131	3 ☐	HEC 121	3 ☐
HDFS 201	3 ☐	U.S./Nev Constitutions	3 ☐
English/Comm Course	3 ☐		
Elective	3 ☐		
<i>Second Semester</i>		<i>Fourth Semester</i>	
ECE 200	3 ☐	COT 105, 202 or IS 101	3 ☐
ECE 251	3 ☐	ECE 123	1 ☐
HDFS 202	3 ☐	ECE 168	1 ☐
US/Nevada Constitution	3 ☐	ECE 240	3 ☐
Math Course	3 ☐	Human/Soc Sci Course	3 ☐
		ECE Elective	1 ☐
		Elective	3 ☐
		Recommended Elective: HDFS 232	

ACADEMIC DEGREES

ELECTRONICS TECHNOLOGY

Associate of Applied Science Program

The Electronics Technology program is designed to train students in the specialized areas of electronics. Those now working in the electronics field will be able to upgrade their knowledge, while those wishing to enter the field may take advantage of a large selection of course offerings that will ensure a solid understanding of electronics.

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 36 credits.

	Credits
CIT 132 Beginning Visual Basic	3
or CIT 133B Beginning C++	
DFT 131 Introduction to Computer Aided Drafting	3
ET 131B Electronics I	4
or ET 102B Basic DC Electronics	3
& ET 103B Basic AC Electronics	3
ET 132B Electronics II	4
or ET 108B Basic Semiconductors	2
& ET 109B Basic Electronic Circuits	3
ET 134B Basic Troubleshooting	2
ET 172B Semi-Conductor Devices	4
ET 173B Advanced Troubleshooting	2
ET 280B Digital Electronics	4
ET 283B Microprocessors & Controllers	4
ET 291B Digital Troubleshooting	2

Choose 1-4 credits from the following:

ET 174B Circuit Simulation	2
ET 175B Circuit Simulation II	2
ET 200B Electronics Projects	.5-6
ET 284B Microprocessors	4
ET 295B Work Experience I	1-4
PHYS 100 Introduction to Physics I (or higher)	3-4
Other related electronics courses	1-4

General Education Requirements* - 24 credits.

	Credits
English/Communications courses	6
(BUS 107 & 108 recommended; Must include a writing course)	
Human Relations course (BUS 110B recommended)	1-3
Humanities/Social Science course	3
Math courses (MATH 126 or higher)	3
Science Course (Physics recommended)	3
U.S./Nevada Constitutions course	3
Electives	3-5

*A list of courses fulfilling general education requirements is on page 26.

ELECTRONICS TECHNOLOGY

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements - 23 credits.

	Credits
DFT 131 Introduction to Computer Aided Drafting	3
ET 131B Electronics I	4
or ET 102B Basic DC Electronics	3
& ET 103B Basic AC Electronics	3
ET 132B Electronics II	4
or ET 108B Basic Semiconductors	3
& ET 109B Basic Electronic Circuits	3
ET 134B Basic Troubleshooting	2
ET 172B Semi-Conductor Devices	4
ET 173B Advanced Troubleshooting	2
ET 283B Microprocessors & Controllers	4

General Education Requirements* - 7 credits.

	Credits
English/Communications courses	3
(BUS 108 recommended; writing course required)	
Human Relations course (BUS 110B recommended)	1
Mathematics course (MATH 126 or higher)	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

First Semester	Completed	Third Semester	Completed
BUS 107	3 ☐	BUS 110	3 ☐
DFT 131	3 ☐	ET 134	2 ☐
ET 131B	4 ☐	ET 172	4 ☐
or ET 102B & 103B	6 ☐	ET 280	4 ☐
HUM 101	3 ☐	PHYS 100	3 ☐
MATH 112	3 ☐		
Second Semester		Fourth Semester	
BUS 108	3 ☐	ET 173	2 ☐
CIT 133B	3 ☐	ET 174	2 ☐
or CIT 132	3 ☐	ET 200	.5-6 ☐
ET 132	4 ☐	or ET 198 or 295 or	
or CIT 132	3 ☐	Sci-Electronics Elective	2-4 ☐
PSC 103	3 ☐	ET 283	4 ☐
MATH 127	3 ☐	ET 291	2 ☐

ACADEMIC DEGREES

ENGINEERING PROGRAM

The Engineering Program at Western Nevada Community College provides students with many engineering opportunities: a two-year Associate of Science degree which transfers completely into a baccalaureate program of engineering, and three Associate of Applied Science degrees in engineering technology which prepare students for employment at the technician level.

Programs include:

- Computer Engineering Technology
- Electrical Engineering Technology
- Electronics Engineering Technology
- Engineering Science (Associate of Science)

Associate of Applied Science in Engineering Technology

Mission & Goals

MISSION - The purpose of the Engineering Technology program is to provide the theoretical principles, practical application of those principles, and training in the specific skills necessary to obtain employment at the technician level in each degree discipline.

STUDENT LEARNING OUTCOMES - Students who complete programs in the Engineering Technology disciplines are expected to demonstrate that they -

1. know the subject matter, including the fundamental principles, theories, and techniques appropriate to the degree discipline.
2. are able to do the following:
 - a. apply their knowledge of the principles, theories, and techniques of their discipline toward solution of real-world engineering problems.
 - b. demonstrate the skills, competencies, judgement, and sense of responsibility required by engineering technicians in real-world practice.
 - c. communicate effectively and appropriately, in oral and written forms, with employers, colleagues, and lay people.
 - d. locate, evaluate, and properly utilize the tools and resources necessary to accomplish these tasks.
3. are able to recognize, evaluate, and appreciate:
 - a. the importance of engineering and engineering technology in today's society, including its impact on local and national economies.
 - b. those tasks and responsibilities within their chosen discipline of engineering technology for which they are qualified by virtue of their education, training, and experience.
 - c. those tasks and responsibilities which lie beyond their present technical qualifications.
 - d. the importance of and necessity for continuing professional development to remain abreast of the rapid technological advancement within their chosen discipline.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
BUS 107	3 ☐	MATH 283	4 ☐
CHEM 101	4 ☐	MECH 241	3 ☐
CS 201	3 ☐	PHYS 181	4 ☐
ECON 102	3 ☐	WT 201	3 ☐
MATH 181	4 ☐	Social Science Elective	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
BUS 108	3 ☐	EE 200 & EE 201	4 ☐
MATH 182	4 ☐	MATH 285	3 ☐
PHYS 180	4 ☐	MECH 242	3 ☐
PSC 103, or HIST 111	3 ☐	WT 202	3 ☐
Fine Arts Elective	3 ☐		

COMPUTER ENGINEERING TECHNOLOGY

Associate of Applied Science Program

The Computer Engineering Technology degree program is designed to prepare students for immediate employment as a computer engineering technician. The program provides a foundation in theory and training in a broad range of topics from computer science and related aspects of electrical and electronics engineering. Students have the flexibility to tailor the program to their particular area of interest from a large selection of technical electives. Students who complete an associate degree program in engineering technology can transfer to other colleges or universities to pursue a baccalaureate degree in their chosen specialty of engineering technology. They may also transfer up to 64 credits from WNCC to the College of Engineering or the Mackey School of Earth Sciences and Engineering at the University of Nevada, Reno.

DEGREE REQUIREMENTS - 64 credits.

Program Requirements - 49 credits.

	Credits
CIT 110B A+ Hardware	3
CIT 111B A+ Software	3
CS 201 Computer Science I	3
CS 236 Introduction to Computer Engineering	4
ET 131B Electronics I	4
ET 132B Electronics II	4
ET 280B Digital Electronics	4
ET 283B Microprocessor/Controller	4
MATH 128* Precalculus & Trigonometry*	5
MATH 181* Calculus I*	4
PHYS 180/180L* Engineering Physics I*	4

*Or higher; MATH 126 + MATH 127 may be substituted for MATH 128.

Choose 7 credits from the following:

CIT 201B N+ Certification	4
CIT 240B Cisco Networking I	4
CS 202 Computer Science II	3
EE 200 Network Analysis Laboratory	1
EE 201 Introduction to Network Analysis	3
EE 231 Computer Methods for Electrical Engineers	3
EE 298 Cooperative Training Report	1
ET 172B Semiconductor Devices	4
ET 174B Circuit Simulation	2
ET 175B Circuit Simulation II	2
ET 284B Microprocessors II	4

General Education Requirements* - 15 credits.

	Credits
English/Communications courses	6
(Must include a writing course; BUS 107 and BUS 108 recommended)	
Human Relations course	3
Social Science/ Humanities course (ECON 102 recommended)	3
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 26.

Notes: Students may be able to transfer up to 64 credits to the University of Nevada, Reno, toward requirements for a bachelor's degree in engineering, depending on the major chosen. However, engineering students intending to transfer to UNR should consider the Engineering Science program in lieu of Engineering Technology. UNR does not currently offer a baccalaureate program in engineering technology, and WNCC courses with a "B" suffix may transfer to out-of-state institutions with such programs but typically do not transfer to other UCCSN institutions. Please consult an advisor for the latest information.

ACADEMIC DEGREES

ELECTRICAL ENGINEERING TECHNOLOGY

Associate of Applied Science Program

The Electrical Engineering Technology degree program is specifically designed to prepare students for immediate employment as electrical engineering technicians. This program provides more intensive theoretical foundation than the other engineering technology programs coupled with laboratory training and experience in modern electrical engineering applications. Students have the flexibility to tailor the program to their particular area of interest from a large selection of technical electives. Additional coursework beyond the minimum degree requirement is recommended for broader or more intensive preparation. Students who complete an associate degree program in engineering technology can transfer to other colleges or universities to pursue a baccalaureate degree in their chosen specialty of engineering technology. Students may also transfer up to 64 credits from WNCC to the College of Engineering or the Mackey School of Earth Sciences and Engineering at the University of Nevada, Reno.

DEGREE REQUIREMENTS - 64 credits.

Program Requirements - 49 credits.

		Credits
CS 201	Computer Science I	3
ET 131B	Electronics I	4
ET 172B	Semiconductor Devices	4
ET 200	Network Analysis Laboratory	1
ET 201	Intro to Network Analysis	3
ET 231	Computer Methods for Electrical Engineers	3
ET 236	Intro to Computer Engineering	4
ET 280B	Digital Electronics	4
MATH 128*	Precalculus & Trigonometry*	5
MATH 152*	Introduction to Statistics*	3
MATH 181*	Calculus I*	4
PHYS 180/180L*	Engineering Physics I*	4

*Or higher; MATH 126 + MATH 127 may be substituted for MATH 128.

Choose 7 credits from the following:

CS 202	Computer Science II	3
EE 298	Cooperative Training Report	1
ET 134B	Basic Troubleshooting (DC/AC Circuits)	2
ET 173B	Advanced Troubleshooting (Analog Circuits)	2
ET 175B	Circuit Simulation II	2
ET 283B	Microprocessor/Controller	4
ET 284B	Microprocessors II	4
ET 286B	Communications Circuits	4
ET 291B	Digital Troubleshooting	2
MATH 182	Calculus II	4
PHYS 181/181L	Engineering Physics II	4

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
BUS 107	3 ☐	EE 231	3 ☐
CS 201	3 ☐	ET 172B	4 ☐
ET 131B	4 ☐	MATH 152	3 ☐
MATH 128	5 ☐	PHYS 180 & 180L	4 ☐
		Social Sci/Hum course	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
BUS 108	3 ☐	ET 280B	4 ☐
EE 200 & 201	4 ☐	Human Relations course	3 ☐
EE 236	4 ☐	Technical electives	7 ☐
MATH 181	4 ☐	US/NV Constitutions	3 ☐

General Education Requirements*- 15 credits.

	Credits
English/Communications courses	6
(Must include a writing course; BUS 107 and BUS 108 recommended)	
Human Relations course	3
Social Science/ Humanities course (ECON 102 recommended)	3
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 26.

Notes: Students may be able to transfer up to 64 credits to the University of Nevada, Reno, toward requirements for a bachelor's degree in engineering, depending on the major chosen. However, engineering students intending to transfer to UNR should consider the Engineering Science program in lieu of Engineering Technology. UNR does not currently offer a baccalaureate program in engineering technology, and WNCC courses with a "B" suffix may transfer to out-of-state institutions with such programs but typically do not transfer to other UCCSN institutions. Please consult an advisor for the latest information.

ACADEMIC DEGREES

ELECTRONICS ENGINEERING TECHNOLOGY

Associate of Applied Science Degree

The Electronics Engineering Technology degree program is specifically designed to prepare students for immediate employment as electronics engineering technicians. The program provides a foundation in theory along with comprehensive laboratory training and preparation in the field of modern electronics technology. Students have the flexibility to tailor the program to their particular area of interest from a large selection of technical electives. Additional coursework beyond the minimum degree requirement is recommended for broader or more intensive preparation. Students who complete an associate degree program in engineering technology can transfer to other colleges or universities to pursue a baccalaureate degree in their chosen specialty of engineering technology. Students may also transfer up to 64 credits from WNCC to the College of Engineering or the Mackey School of Earth Sciences and Engineering at the University of Nevada, Reno.

DEGREE REQUIREMENTS - 64 credits.

Emphasis Requirements - 49 credits.

		Credits
CS 201	Computer Science I	3
ET 131B	Electronics I	4
ET 132B	Electronics II	4
ET 134B	Basic Troubleshooting (DC/AC Circuits)	2
ET 172B	Semiconductor Devices	4
ET 173B	Advanced Troubleshooting (Analog Circuits)	2
ET 174B	Circuit Simulation	2
ET 280B	Digital Electronics	4
ET 291B	Digital Troubleshooting	2
MATH 128*	Precalculus & Trigonometry*	5
MATH 152*	Introduction to Statistics*	3
MATH 181*	Calculus I*	4
PHYS 180/180L*	Engineering Physics I*	4

*Or higher; MATH 126 + MATH 127 may be substituted for MATH 128.

Choose 6 credits from the following:

CS 202	Computer Science II	3
EE 200	Network Analysis Laboratory	1
EE 201	Introduction to Network Analysis	3
EE 231	Computer Methods for Electrical Engineers	3
EE 298	Cooperative Training Report	1
ET 175B	Circuit Simulation II	2
ET 283B	Microprocessor/Controller	4
ET 284B	Microprocessors II	4
ET 286B	Communications Circuits	4

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CS 201	3 ☐	BUS 108	3 ☐
ET 131B	4 ☐	ET 134B	2 ☐
MATH 128	5 ☐	ET 280B	2 ☐
Soc. Science/Human.	3 ☐	Human Relations	3 ☐
		MATH 152	3 ☐
		Technical Electives	3 ☐
<i>Second Semester</i>			
BUS 107	3 ☐		
ET 132B	4 ☐	<i>Fourth Semester</i>	
ET 172B	4 ☐	ET 173B	2 ☐
ET 280B	2 ☐	ET 174B	2 ☐
MATH 181	4 ☐	ET 291B	2 ☐
		PHYS 180 & 180L	4 ☐
		Technical Electives	3 ☐
		US/NV Constitutions	3 ☐

General Education Requirements*- 15 credits.

	Credits
English/Communications courses	6
(Must include a writing course; BUS 107 and BUS 108 recommended)	
Human Relations course	3
Social Science/ Humanities course (ECON 102 recommended)	3
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 26.

Notes: Students may be able to transfer up to 64 credits to the University of Nevada, Reno, toward requirements for a bachelor's degree in engineering, depending on the major chosen. However, engineering students intending to transfer to UNR should consider the Engineering Science program in lieu of Engineering Technology. UNR does not currently offer a baccalaureate program in engineering technology, and WNCC courses with a "B" suffix may transfer to out-of-state institutions with such programs but typically do not transfer to other UCCSN institutions. Please consult an advisor for the latest information.

ACADEMIC DEGREES

ENGINEERING SCIENCE

Associate of Science Emphasis

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

DEGREE REQUIREMENTS - 64 credits.

Emphasis Requirements - 40 credits.

		Credits
CHEM 201**	General Chemistry for Scientists/Engineers I	4
CS 201	Computer Science I	3
MATH 181	Calculus I*	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
PHYS 180/180L*	Engineering Physics I*	4
PHYS 181/181L*	Engineering Physics II*	4

Choose 13 credits from the following:

CHEM 202**	General Chemistry for Scientists/Engineers II	4
CS 202	Computer Science II	3
EE 200	Network Analysis Laboratory	1
EE 201	Introduction to Network Analysis	3
EE 231	Computer Methods for Electrical Engineers	3
EE 236	Introduction to Computer Engineering	4
EE 298	Cooperative Training Report	1
MATH 285	Differential Equations	3
ME 198	Cooperative Training Report	1
ME 241	Statics	3
ME 242	Dynamics	3
ME 298	Cooperative Training Report	1
METE 250	Elements of Material Science	3
PHYS 182/182L	Engineering Physics III	4

*Or higher

** CHEM 121 may be substituted for CHEM 201 and CHEM 122 may be substituted for CHEM 202.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CS 201	3 ☐	MATH 283	4 ☐
English course	3 ☐	Social Sci/Hum Elective	3 ☐
MATH 181	4 ☐	Technical Electives	6 ☐
PHYS 180 & 180L	4 ☐	US/Nev Constitutions	3 ☐
Social Sci/Hum Elective	3 ☐		
<i>Second Semester</i>		<i>Fourth Semester</i>	
CHEM 201 (121)	4 ☐	Fine Arts Elective	3 ☐
English course	3 ☐	Technical Electives	7 ☐
MATH 182	4 ☐	Social Sci/Hum Electives	6 ☐
PHYS 181 & 181L	4 ☐		

General Education Requirements* - 24 credits.

	Credits
English/Communications courses	6
Fine Arts course	3
Humanities courses	6
Social Science courses	6
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 24.

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

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

- Civil Engineering: EE 201 (3), MATH 285(3), ME 241 (3), ME 242 (3), and maximum 3-4 credits from BIOL 190 (3), CHEM 202 (4), GEOL 101 (3), which will be transferred as restrictive electives.
- Environmental Engineering under Civil Engineering: ME 241 (3), CHEM 142 (3), CHEM 202 (4), BIOL 190 (3)
- Computer Science: CS 202 (3), CS 236 (4), EE 201 (3), EE 200 (1), PHYS 182 (4), MATH 285 (3). PHYS and MATH will transfer as general electives.
- Computer Science with Computer Engineering Track: CS 202 (3), CS 236 (4), EE 200 (1), EE 201 (3), and maximum four credits from MATH 285 (3) or PHYS 203 (4), which will transfer as general electives.
- Electrical Engineering: EE 200 (1), EE 201 (3), EE 231 (3), EE 236 (4), EE 298 (1), MATH 285(3), ME 241 (3).
- Electrical Engineering with Computer Engineering Track: CS 202 (3), EE 200 (1), EE 201 (3), EE 231 (3), MATH 285(3), ME 241 (3).
- Mechanical Engineering: EE 200 (1), EE 201 (3), MATH 285(3), ME 241 (3), ME 242 (3), METE 250 (3).
- Engineering Physics: CHEM 202 (4), CS 202 (3), EE 201 (3), MATH 285(3), PHYS 182 (4).

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

ACADEMIC DEGREES

FINANCIAL OPERATIONS MANAGEMENT

Certificate of Achievement

The Financial Operations Management Certificate of Achievement is designed for students seeking specific skills in financial management.

CERTIFICATE REQUIREMENTS- 31-33 credits.

Subject Requirements – 24 credits.

Choose 9 credits from the following:

	Credits
FI 103B Analyzing Financial Statements	1-3
FI 115B Credit and Collections	3
FI 171B Product Knowledge	2
FI 172B Loan Approval	1
FI 173B Loss Prevention	1-3
FI 182B Davox Software	1
FI 183B Skip Tracing	1
FI 184B Collections with "Daybreak"	1
FI 185B Contract Verification and Activation	2
FI 215B Loan Underwriting	3
FI 267B Negotiable Instruments	1-3

Choose 15 credits from the following:

ACC 135B Bookkeeping I	3
ACC 136B Bookkeeping II	3
ACC 201 Financial Accounting	3
ACC 202 Managerial Accounting	3
BUS 101 Introduction to Business	3
BUS 107 Business Communications	3
BUS 273 Business Law I	3
Any other Business course	.5-2
COT 202 Introduction to Computer Applications	3
ECON 102 Principles of Microeconomics	3
ECON 103 Principles of Macroeconomics	3
INS 210 Property and Liability Insurance	3
LAW 251 Bankruptcy	1-3
MGT 103 Small Business Management	3
MGT 201 Principals of Management	3
MGT 212 Leadership & Human Relations	3
MGT 283 Personnel Administration	3

General Education Requirements* – 7-9 credits.

	Credits
English (Recommend BUS 108-must be a writing course)	3
Human Relations course	1-3
Mathematics course (Recommend BUS 109B)	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
ACC 135B or 201	3 ☐	COT 202	3 ☐
COT 202	3 ☐	INS 210	3 ☐
INS 210	3 ☐	LAW 251or FI 103B	1-3 ☐
LAW 251or FI 103B	1-3 ☐		
<i>Second Semester</i>		<i>Fourth Semester</i>	
ACC 136B or 202 or		ECON 102 or ECON 103	3 ☐
FI 115B	3 ☐	MGT 103 or MGT 212 or	
BUS 107 or FI 267B	3 ☐	MGT 201	3 ☐
FI 182B or FI 173B	1 ☐	BUS 273	3 ☐
FI 184B or FI 185B	1 ☐		

ACADEMIC DEGREES

GEOGRAPHIC INFORMATION SYSTEMS

Associate of Applied Science Program

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

DEGREE REQUIREMENTS - 60 credits.

Program Requirements – 36 credits.

	Credits
GIS 109 Intro to GIS	3
GIS 110 Principles of Cartography	3
GIS 111 Intro to Remote Sensing	3
GIS 112 Intro to ArcInfo	3
GIS 170B GIS Applications in Conservation Issues	1
GIS 171B GIS Applications in Urban & Regional Planning	1
GIS 172B Current Trends in GIS	1
GIS 205 GIS Applications	3
GIS 212 Intermediate ArcInfo	3
GIS 235 Spatial Analysis with GIS	3
GIS 250 GIS Database	3
GIS 270 GIS Extensions	3
GIS 280 Internship in GIS	3
GIS 290 Portfolios in GIS	3

General Education Requirements* - 24 credits.

	Credits
English/Communications Courses	6
Human Relations course	1-3
Humanities/Social Science (GEOG 106 recommended)	3
MATH 126 or higher	3
Science (GEOG 103 recommended)	3
U.S./Nevada Constitution	3
Electives	3-5

*A list of courses fulfilling general education requirements is on page 26.

GEOGRAPHIC INFORMATION SYSTEMS

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements – 21 credits.

	Credits
GEOG 103 Physical Geography	3
GIS 109 Intro to GIS	3
GIS 110 Principles of Cartography	3
GIS 112 Intro to ArcView	3
GIS 205 GIS Applications	3
GIS 250 GIS Database	3
GIS 270 GIS Extensions	3

General Education Requirements* - 9 credits.

	Credits
English Writing Course	3
Human Relations (PSY recommended)	1-3
MATH 126 or higher	3
Electives	0-2

*A list of courses fulfilling general education requirements on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
English Course	3 ☐	GIS 171B	1 ☐
GEOG 103	3 ☐	GIS 212	3 ☐
GIS 109	3 ☐	GIS 235	3 ☐
GIS 110	3 ☐	GIS 280	3 ☐
GIS 112	3 ☐	MATH 126	3 ☐
		Elective	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
English Course	3 ☐	GIS 172B	3 ☐
GEOG 106	3 ☐	GIS 250	3 ☐
GIS 111	3 ☐	GIS 270	3 ☐
GIS 170B	1 ☐	GIS 290	3 ☐
GIS 205	3 ☐	Elective	3 ☐
U.S./Nev Constitution	3 ☐		

ACADEMIC DEGREES

GEOSCIENCES

Associate of Science Emphasis

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

DEGREE REQUIREMENTS - 60-62 credits.

Emphasis Requirements – 30-32 credits.

		Credits
GEOG 103	Physical Geography	3
GEOG 104	Physical Geography Laboratory	1
GEOG 106	Cultural Geography	3
GEOL 101	Physical Geology	3
or GEOL 100	Earthquakes and Volcanoes	
GEOL 103	Physical Geology Laboratory	1

Choose one course:

CHEM 100	Elementary Concepts of Chemistry	3
CHEM 121 (or CHEM 201)	General Chemistry I (for Scientists/Engineers)	4
CHEM 122 (or CHEM 202)	General Chemistry II (for Scientists/Engineers)	4

Choose one course:

BIOL 100	General Biology for Non-Majors	3
BIOL 190	Introduction to Cell Biology	3
BIOL 191	Introduction to Organismal Biology	3

Choose 12-13 credits from the following:

BIOL 190/L	Intro to Cell & Molecular Biology Lab	1
BIOL 191/L	Intro to Organismal Biology Lab	1
BIOL 192	Principles of Biological Investigation	2
ENV 100	Humans and The Environment	3
GEOG 117	Meteorology and Climatology	3
GEOL 102	Earth and Life Through Time	4
GEOL 127	Prehistoric Life	3
GEOL 132	Rocks and Minerals	3
GEOL 201	Geology of Nevada	3
GIS 109	Intro to Geographic Information Systems	3
GIS 205	GIS Applications	3
PHY 100	Introduction to Physics I	3
PHYS 151	General Physics I	4
or PHYS 180/180L	Engineering Physics I	
PHYS 152	General Physics II	4
or PHYS181/181L	Engineering Physics II	

General Education Requirements* - 30 credits.

	Credits
English 101 & 102	6
Fine Arts Course	3
Humanities Courses	6
Mathematics	6
Social Science Course	3
U.S./Nevada Constitution Course	3
Elective	3

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

*A list of courses fulfilling general education requirements is on page 24.

SUGGESTED COURSE SEQUENCE

First Semester	Completed	Third Semester	Completed
CHEM 100 (121,122)	3 ☐	Emphasis Sciences	
ENG 101	3 ☐	(choose from)	6-7 ☐
GEOG 103	3 ☐	Fine Arts course	3 ☐
GEOG 104	1 ☐	Humanities	3 ☐
GEOG 106	3 ☐	U.S./Nev Constitution	3 ☐
Math course	3 ☐		
Second Semester		Fourth Semester	
BIOL 100 (190, 191)	3 ☐	Emphasis Sciences	
ENG 102	3 ☐	(choose from)	6-7 ☐
GEOL 101 (100)	3 ☐	Elective	3 ☐
GEOL 103	1 ☐	Humanities	3 ☐
Math course	3 ☐		
Social Science	3 ☐		

ACADEMIC DEGREES

GOLF FACILITIES MANAGEMENT

Associate of Applied Science Program

The Golf Facilities Management Program prepares students for entry positions in the golf industry with a 60-credit associate degree and a 31-33 credit certificate of achievement. The program assists those seeking promotion and provides technical skills to those seeking entry into the golf business.

Golf is the fastest growing sport business in the world. It is an important part of local economic growth. Through real estate, recreation and land use development, golf facilities provide employment and economic improvement to many areas of the world. Advancement opportunities are excellent.

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 42 credits.

	Credits
ACC 135B Bookkeeping I	3
or ACC 201 Financial Accounting	
AG 102B Landscaping/Ornamental Horticulture	3
AG 160B Agricultural Chemicals and Fertilizer	3
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	
COT 202 Introduction to Computer Applications	3
GFM 101B Golf Course Management & Design	3
GFM 203B Golf Shop Management	1
GFM 204B Methods of Teaching Golf	2
GFM 205B Short Game and Putting	1
GFM 206B The Rules of Golf	1
GFM 207B Golf Cart Maintenance	1
MGT 212 Leadership & Human Relations	3
OH 111B Turf Grass Fundamentals	3

Choose 12 credits from the following:

AUTO 102B Automotive Electricity	3
BUS 273 Business Law	3
ECON 102 Principles of Macroeconomics	3
or ECON 103 Principles of Microeconomics	
MGT 273B Resort Planning and Design	3
MKT 111 Introduction to Merchandising	3
MTL 212 Welding I	3
or MTL 213 Welding II	
OH 201B Turf Sprinkler Systems Design	3
OH 207B Landscape Construction	3
OH 215B Advanced Irrigation Design	3

General Education Requirements - 18 credits.

	Credits
English/Communications courses (BUS 107/108 recommended)	6
Humanities/Social Science course	3
Mathematics course (BUS 109B recommended)	3
Science course (AG 101 or OH 105B recommended)	3
U.S. and Nevada Constitution course	3

*A list of courses fulfilling general education requirements is on page 26.

GOLF FACILITIES MANAGEMENT

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 31-33 credits.

Subject Requirements - 24 credits.

	Credits
ACC 135B Bookkeeping I	3
or ACC 201 Financial Accounting	
AG 101 Plant, Water & Soil Science	3
or OH 105B Soils & Plant Nutrition	
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	
COT 202 Introduction to Computer Applications	3
GFM 101B Golf Course Management and Design	3
GFM 203B Golf Shop Management	1
GFM 204B Methods of Teaching Golf	2
GFM 205B Short Game and Putting	1
GFM 206B The Rules of Golf	1
GFM 207B Golf Cart Maintenance	1
OH 111B Turf Grass Fundamentals	3

General Education Requirements - 7-9 credits.

	Credits
English/Communications courses (BUS 108 recommended)	3
Human Relations course (MGT 212 recommended)	1-3
Mathematics course (BUS 109B recommended)	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
ACC 135B or 201	3 ☐	AG 160B	3 ☐
BUS 107	3 ☐	GFM 206B	1 ☐
BUS 109B	3 ☐	MGT 212	3 ☐
GFM 101B	3 ☐	OH 111B	3 ☐
GFM 203B	1 ☐	US/Nev Constitutions	3 ☐
OH 201B	3 ☐		
<i>Second Semester</i>	Completed	<i>Fourth Semester</i>	Completed
AG 102B	3 ☐	BUS 101 or MGT 103	3 ☐
BUS 108	3 ☐	GFM 207B	1 ☐
COT 202	3 ☐	MTL 212 or 213	3 ☐
GFM 204B	2 ☐	OH 207B	3 ☐
GFM 205B	1 ☐	OH 215B	3 ☐
Humanities/Soc Science	3 ☐	Science course	3 ☐

ACADEMIC DEGREES

GRAPHIC COMMUNICATIONS

Associate of Applied Science Program

WNCC's Graphic Communications program is designed for students who want quick access to one of the career fields involving graphic arts and computer-aided design and layout.

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 42 credits.

	Credits
ART 101 Drawing I	3
ART 102 Drawing II	3
ART 107 Design Fundamentals I (2D)	3
ART 243 Digital Imaging I	3
GRC 103 Introduction to Computer Graphics	3
GRC 144B Electronic Layout and Typography	3
or COT 223 Advanced Desktop Publishing	
GRC 156 Computer Illustration I	3
GRC 175 Web Design and Publishing I	3
or CIT 151 Beginning Web Development	
GRC 240B Desktop Publishing II	3
GRC 256B Computer Illustration II	3
GRC 294B Professional Portfolio	3

Choose 6 credits from the following:

ART 115, 127, 135, 211, 212, 216, 231, 232, 235, 236	6
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Choose 3 credits from the following:

ART 244 Digital Imaging II	3
CIT 251 Advanced Web Development	3
GRC 179 Multimedia Design and Production I	3
GRC 185 Computer Animation I	3
GRC 188 Web Animation and Interactivity I	3

General Education Requirements* -18 credits.

	Credits
English/Communication courses	6
Human Relations course (PSY or SOC recommended)	3
Math course	3
Science course	3
U.S./Nevada Constitution course	3

*A list of courses fulfilling general education requirements is on page 26.

GRAPHIC COMMUNICATIONS

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements - 21 credits.

	Credits
ART 101 Drawing I	3
ART 107 Design Fundamentals I (2D)	3
ART 243 Digital Imaging I	3
GRC 144B Electronic Layout and Typography	3
or COT 223 Advanced Desktop Publishing	
GRC 156 Computer Illustration I	3
GRC 256B Computer Illustration II	3

Choose 3 credits from the following:

ART 244 Digital Imaging II	3
CIT 151 Beginning Web Development	3
GRC 175 Web Design and Publishing I	3
GRC 240B Desktop Publishing II	3

General Education Requirements* - 9 credits.

	Credits
English/Communications course	3
Human Relations course (PSY or SOC recommended)	3
Mathematics course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
ART 101	3 ☐	ART 107	3 ☐
ART 243	3 ☐	GRC 175	3 ☐
English course	3 ☐	GRC 240B	3 ☐
GRC 103	3 ☐	GRC 256B	3 ☐
MATH course	3 ☐	Art elective	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
ART 102	3 ☐	GRC 188	3 ☐
English course	3 ☐	GRC 294B	3 ☐
GRC 144B	3 ☐	Art elective	3 ☐
GRC 156	3 ☐	Human Relations course	3 ☐
Science course	3 ☐	U.S./Nevada Constitution	3 ☐

MASTER COURSE SCHEDULE - GRAPHIC COMMUNICATIONS

C = Carson; D = Douglas; F = Fallon

TITLE	FALL 2004	SPRING 2005	FALL 2005	SPRING 2006
ART 243	CDF	CDF	CDF	CDF
ART 244	CF	CDF	CF	CD
GRC 103	C	C	C	C
GRC 144B	C	C	C	C
GRC 156	C	CF	C	CF
GRC 175	C	C	C	C
GRC 179	CF	CF	CF	CF
GRC 185	CF	CF	CF	CF
GRC 188	C	C	C	C
GRC 240B	C	C	C	C
GRC 256B	C	C	C	C
GRC 294B		C		C

ACADEMIC DEGREES

JUVENILE JUSTICE

Associate of Applied Science Emphasis

The Juvenile Justice emphasis is for students seeking careers within the field of criminal justice where they are involved with the supervision and rehabilitation of juvenile offenders. Courses completed through P.O.S.T. training may be applied toward this degree or certificate.

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 18 credits.

	Credits
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

Emphasis Requirements - 18 credits.

	Credits
CRJ 155 Juvenile Justice System	3
CRJ 215 Probation & Parole I	3
CRJ 226 Prevention & Control of Delinquency	3

Choose 9 credits from any of the following:

Any other Criminal Justice course except for CRJ 110B	1-9
Any Psychology or Sociology course except PSY 210 or SOC 210	1-6
Any foreign language	1-6
BUS 107, 108	3-6
COM 113	3
COT 105, 113B, 202	3-6
CPD 116, 117	3
CRJ 296B Work Experience - Juvenile Justice	1-6
IS 101	3
MGT 201, 212, 235, 283	3-6
SW 220, 230	3

General Education Requirements* - 24 credits.

	Credits
English/Communications courses	6
(Must include a writing course; ENG 101 is recommended)	
Humanities course	3
Mathematics course	3
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	6

*A list of courses fulfilling general education requirements is on page 26.

JUVENILE JUSTICE

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Core Requirements - 12 credits.

	Credits
CRJ 101 Introduction to Criminal Justice I	3
CRJ 164 Principles of Investigation	3
CRJ 230 Criminal Law	3
CRJ 270 Introduction to Criminology	3

Subject Requirements - 9 credits.

	Credits
CRJ 155 Juvenile Justice System	3
CRJ 215 Probation & Parole I	3
Choose 3 credits from Juvenile Justice Emphasis requirements	3

General Education Requirements* - 9 credits.

	Credits
English/Communications courses	6
(Must include a writing course; ENG 101 is recommended)	
Mathematics course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CPD 117	3 ☐	COM 113	3 ☐
CRJ 101	3 ☐	CRJ 230	3 ☐
CRJ 106	3 ☐	CRJ 270	3 ☐
CRJ 155	3 ☐	MATH Course	3 ☐
ENG 101	3 ☐	U.S./Nev Constitutions	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
CRJ 102	3 ☐	COT 105	3 ☐
CRJ 103	3 ☐	CRJ 164	3 ☐
CRJ 220	3 ☐	CRJ 215	3 ☐
CRJ 226	3 ☐	PSY, SOC or	3 ☐
Humanities Course	3 ☐	CRJ Course	
		Science Course	3 ☐

ACADEMIC DEGREES

LAW ENFORCEMENT

Associate of Applied Science Emphasis

The Law Enforcement emphasis is designed to prepare students for criminal justice careers where they may be actively involved with such duties as police patrol, investigation and criminal identification. Courses completed through P.O.S.T. training may be applied toward this degree or certificate.

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 18 credits.

	Credits
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

Emphasis Requirements - 18 credits.

	Credits
Choose 9 credits from the following:	
CRJ 120 Community Relations	3
CRJ 211 Police in America	3
CRJ 214 Principles of Police Patrol Techniques	3
CRJ 225 Criminal Evidence	3
CRJ 265 Introduction to Physical Evidence	3
CRJ 267 Medicolegal Death Investigation	3

Choose 9 credits from the following:

Any other Criminal Justice course except CRJ 110B	1-9
Any Psychology course or Sociology, except PSY 210 or SOC 210	1-6
Any foreign language	1-6
BUS 107, 108	3-6
COM 113	3
COT 105, 113B, 202	3-6
CPD 116, 117	3
CRJ 297B Work Experience - Law Enforcement	1-6
IS 101	3
MGT 201, 212, 235, 283	3-6
SW 230	3

General Education Requirements* - 24 credits.

	Credits
English/Communications courses	6
(Must include a writing course; ENG 101 is recommended)	
Humanities course	3
Mathematics course	3
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	6

*A list of courses fulfilling general education requirements is on page 26.

LAW ENFORCEMENT

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Core Requirements - 12 credits.

	Credits
CRJ 101 Introduction to Criminal Justice I	3
CRJ 164 Principles of Investigation	3
CRJ 230 Criminal Law	3
CRJ 270 Introduction to Criminology	3

Subject Requirements - 9 credits.

	Credits
Choose 9 credits from the following:	
CRJ 120 Community Relations	3
CRJ 211 Police in America	3
CRJ 214 Principles of Police Patrol Techniques	3
CRJ 225 Criminal Evidence	3
CRJ 265 Introduction to Physical Evidence	3
CRJ 267 Medicolegal Death Investigation	3

General Education Requirements* - 9 credits.

	Credits
English/Communications courses	6
(Must include a writing course; ENG 101 is recommended)	
Mathematics course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

First Semester	Completed	Third Semester	Completed
CRJ 101	3 ☐	CPD 117	4 ☐
CRJ 211	3 ☐	CRJ 225	3 ☐
ENG 101	3 ☐	CRJ 230	3 ☐
Humanities Course	3 ☐	CRJ 265	3 ☐
U.S./Nev Constitution	3 ☐	CRJ 270	3 ☐
Second Semester		Fourth Semester	
COT 105	3 ☐	CPD 116	3 ☐
CRJ 102	3 ☐	CRJ 164	3 ☐
CRJ 103	3 ☐	CRJ 214	3 ☐
CRJ 220	3 ☐	CRJ 267	3 ☐
Science Course	3 ☐	MATH Course	3 ☐

ACADEMIC DEGREES

LAW ENFORCEMENT/ACADEMY

Associate of Applied Science Emphasis

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

DEGREE REQUIREMENTS - 63.5 credits.

Core Requirements - 18 credits

	Credits
CRJ 101 Introduction to Criminal Justice I	3
CRJ 102 Introduction to Criminal Justice II	3
CRJ 164 Principles of Criminal Investigation	3
CRJ 220 Criminal Procedures	3
CRJ 230 Criminal Law	3
CRJ 270 Introduction to Criminology	3

Emphasis Requirements - 33.5 credits.

	Credits
CRJ 103 Communication within the Criminal Justice System	3
CRJ 266B Western Nevada State Peace Officer Academy	27
EMS 100B BCLS/CPR Healthcare Provider	0.5
EMS 105B First Responder	3

General Education Requirements* - 12 credits.

	Credits
English writing course (ENG 101 recommended)	3
Mathematics course	3
Science course	3
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 26.

LAW ENFORCEMENT/ACADEMY

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 39.5 credits.

Core Requirements - 33.5 credits.

	Credits
CRJ 103 Communication within the Criminal Justice System	3
CRJ 266B Western Nevada State Peace Officer Academy	27
EMS 100B BCLS/CPR Healthcare Provider	0.5
EMS 105B First Responder	3

General Education Requirements* - 6 credits.

	Credits
English writing course (ENG 101 recommended)	3
Mathematics course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE - Law Enforcement

First Semester	Completed	Third Semester	Completed
CRJ 101	3 ☐	CRJ 230	3 ☐
ENG 101	3 ☐	CRJ 270	3 ☐
U.S./Nev Constitutions	3 ☐	Science Course	3 ☐
Second Semester		Fourth Semester	
CRJ 102	3 ☐	CRJ 103	3 ☐
CRJ 164	3 ☐	CRJ 226B	27 ☐
CRJ 220	3 ☐	EMS 100B	.5 ☐
Math Course	3 ☐	EMS 105B	3 ☐

LEGAL ASSISTANT

Associate of Applied Science Program

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

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 40 credits.

	Credits
CRJ 230 Criminal Law	3
LAW 101 Fundamentals of Paralegalism I	3
LAW 204 Torts	3
LAW 231 Procedure - Civil	3
LAW 261 Legal Research I	3
LAW 262 Legal Writing I	3
LAW 263 Ethics	1
LAW 266 Legal Writing II	3

Choose 18 credits from the following:

BUS 273 Business Law I	3
CRJ 164 Principles of Investigation	3
CRJ 220 Criminal Procedures	3
CRJ 225 Criminal Evidence	3
LAW 198B Special Topics in the Law	1-6
LAW 250 Administrative Law	3
LAW 251 Bankruptcy	3
LAW 252 Family Law	3
LAW 255 Probate, Trusts, and Guardianship Law	3
LAW 260B Employment Law	3
LAW 265 Legal Research II	3
LAW 295 Supervised Field Experience	3
LAW _____ Any other approved LAW course	1-15
RE 104 Real Estate Law and Conveyancing	3

General Education Requirements* - 20 credits.

	Credits
ENG 101 Composition I	3
BUS 108 or any other writing course	3
Mathematics course	3
Science course	3
U.S./Nevada Constitutions course	3
Degree electives	5
(BUS 101, ECON 102 or 103, PCS 208, PSY/SOC 261 recommended)	

*A list of courses fulfilling general education requirements is on page 26.

SUGGESTED COURSE SEQUENCE - Legal Assistant

First Semester	Completed	Third Semester	Completed
CRJ 230	3 ☐	LAW 231	3 ☐
ENG 101	3 ☐	LAW 261	3 ☐
LAW 101	3 ☐	LAW 266	3 ☐
MATH Course	3 ☐	LAW Elective	3 ☐
General Elective	3 ☐	U.S./Nev Constitutions	3 ☐
Second Semester		Fourth Semester	
LAW 204	3 ☐	BUS 108	3 ☐
LAW 262	3 ☐	LAW Elective	3 ☐
LAW 263	1 ☐	LAW Elective	3 ☐
LAW Elective	3 ☐	LAW Elective	3 ☐
General Elective	3 ☐	Science Course	3 ☐

ACADEMIC DEGREES

LEGAL OFFICE SPECIALIST

Certificate of Achievement

The Legal Office Specialist Certificate of Achievement offers students career opportunities in a growing field. It is designed for students seeking employment in a law office, courthouse or other legal facilities.

CERTIFICATE REQUIREMENTS - 33 credits.

Subject Requirements - 24 credits.

	Credits
COT 123 Legal Typing and Transcription	3
COT 131B Legal Office Ethics and Practice	3
COT 200 Beginning Word Processing	3
or COT 216 Intermediate Word Processing	
LAW 101 Fundamentals of Paralegalism	3
LAW 231 Procedure - Civil	3

Choose 9 credits from the following:

BUS 273 Business Law I	3
or BUS 274 Business Law II	3
COT 102 Computer Keyboarding II	3
or COT 103B Keyboarding Review & Speed	1-3
COT 141 Proofamatics/Proofreading	1
COT 212 Advanced Typing IV	3
or COT 239B Advanced Legal Transcription	
COT 290B Internship in Computer & Office Technology	3
CRJ 220 Criminal Procedures	3
LAW 204 Torts	3
LAW 251 Bankruptcy Law	3
LAW 252 Family Law	3
LAW 255 Probate Trust and Guardianship	3
LAW 261 Legal Research I	3
RE 101 Real Estate Principles I	3
RE 104 Real Estate Law & Conveyancing	3
Computer application or related IS, COT or CIT classes	1-3

General Education Requirements* - 9 credits.

	Credits
English/Communications courses	6
(Must include writing course; BUS 107 & BUS 108 recommended)	
Mathematics course (BUS 109B is recommended)	3

*A list of courses fulfilling general education requirements is on page 28.

MASTER COURSE SCHEDULE - LEGAL ASSISTANT

C = Carson; D = Douglas; F = Fallon

TITLE	FALL 2004	SPRING 2005	FALL 2005	SPRING 2006
BUS 273	C	C		
COT 202	CDF	CDF		
CRJ 164	D	CF		
CRJ 220	C	DF		
CRJ 225	CF			
CRJ 230	C	DF		
IS 101	CDF	CDF		
LAW 101	CDF	C	CDF	C
LAW 198B	C		C	
LAW 204		C		C
LAW 231	C		C	
LAW 250		C		
LAW 251	C		F	
LAW 252	C	C		C
LAW 255	C	F	C	F
LAW 260B		C		C
LAW 261	C	F	C	F
LAW 262	F	C	F	C
LAW 263	C	DF		DF
LAW 265		C		C
LAW 266	C		CF	
LAW 295	C	C	C	C

SUGGESTED COURSE SEQUENCE

First Semester	Completed	Second Semester	Completed
BUS 107	3 ☐	COT 123	3 ☐
BUS 108	3 ☐	COT 131B	3 ☐
BUS 109B	3 ☐	COT 200 or 216	3 ☐
COT 101, 102 or 103B	3 ☐	COT 212 or 239B	3 ☐
LAW 101	3 ☐	COT 240, 241 or LAW 253	3 ☐
Elective	2-3 ☐	LAW 231	3 ☐
		Elective	1 ☐

ACADEMIC DEGREES

MACHINE TOOL TECHNOLOGY

Associate of Applied Science Program

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

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 39-41 credits.		Credits
DFT 124B	Blueprint Reading for Industry	3
MATH	Mathematics course (MATH 110B recommended)	3
MTT 105B	Machine Shop I	3
MTT 110B	Machine Shop II	3
MTT 230B	Computer Numerical Control I	4
MTT 232B	Computer Numerical Control II	4
MTT 250B	Machine Shop III	3
MTT 260B	Machine Shop IV	3

Choose 13-15 credits from the following:

Drafting courses	1-6
MTT 106B Machine Shop Practice I	2
MTT 107B Screw Machine I	3
MTT 111B Machine Shop Practice II	2
MTT 150B Metallurgy	3
MTT 151B Non-Destructive Examination	3
MTT 251B Machine Shop Practice III	2
MTT 261B Machine Projects	1-6
MTT 262B Machine Shop Practice IV	2
MTT 270B Mold Making I	3
MTT 271B Mold Making II	3
MTT 292B Computer-Aided Manufacturing I	1-4
MTT 293B Computer-Aided Manufacturing II	1-4
MTT 295B Work Experience	1-6
Any other MTT courses	1-6
Welding courses	1-6

General Education Requirements* - 19-21 credits.

English/Communications courses	6
(Must include a writing course; BUS 108 recommended)	
Human Relations course	1-3
Humanities/Social Science course	3
Science course	3
U.S./Nevada Constitution course	3
Electives	3-5

*A list of courses fulfilling general education requirements is on page 26.

MACHINE TOOL TECHNOLOGY

Certificate of Achievement

CERTIFICATE REQUIREMENTS - 30 credits.

Subject Requirements - 20 credits.		Credits
DFT 124B	Blueprint Reading for Industry	3
MTT 105B	Machine Shop I	3
MTT 106B	Machine Shop Practice I	2
MTT 110B	Machine Shop II	3
MTT 111B	Machine Shop Practice II	2
MTT 230B	Computer Numerical Control I	4
Related machine shop courses		3

General Education Requirements* - 10 credits.

English/Communications	6
(Must include a writing course; BUS 108 is recommended)	
Human Relations course	1
Mathematics course	3

*A list of courses fulfilling general education requirements is on page 28.

SUGGESTED COURSE SEQUENCE

First Semester	Completed	Third Semester	Completed
BUS 108	3 ☐	MTT 150B	3 ☐
DFT 124B	3 ☐	MTT 230B	4 ☐
MTT 105B	3 ☐	MTT 250B	3 ☐
MTT 106B	2 ☐	MTT 251B	2 ☐
Math Course	3 ☐	Science Course	3 ☐
Second Semester		Fourth Semester	
MTL 212B	3 ☐	MTT 232B	4 ☐
MTT 110B	3 ☐	MTT 260B	3 ☐
MTT 111B	2 ☐	MTT 262B	2 ☐
MTT 261B	2 ☐	Human Relations	1-3 ☐
English Course	3 ☐	U.S./Nev Constitutions	3 ☐
Humanities/Soc Science	3 ☐		

ACADEMIC DEGREES

MANAGEMENT

Associate of Applied Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 15 credits.

	Credits
ACC 135B Bookkeeping I	3
& ACC 136B Bookkeeping II	3
or ACC 201 Financial Accounting	
ACC 202 Managerial Accounting	
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	
BUS 109B Business Mathematics	3
or MATH Higher level mathematics course	
MGT 201 Principles of Management	3

Emphasis Requirements - 27 credits.

	Credits
COT 202 Introduction to Computer Applications	3
COT 204 Using Windows	3
ECON 102 Principles of Macroeconomics	3
or ECON 103 Principles of Microeconomics	
IS 101 Introduction to Information Systems	3
MGT 212 Leadership & Human Relations	3

Choose 12 credits from the following:

BUS 101 Introduction to Business	3
BUS 150B Personal Finance	3
BUS 273 Business Law	3
COT 113B Integrated Software	3
MGT 103 Small Business Management	3
MGT 235 Organizational Behavior	3
MGT 247B Industrial Management	3
MGT 283 Personnel Administration	3
MKT 111 Introduction to Merchandising	3
MKT 115 Purchasing	3
MKT 127 Introduction to Retailing	3
MKT 210 Marketing Principles	3
MKT 211 Introduction to Professional Sales	3
MKT 262 Introduction to Advertising	3
PSY 206 Business & Industrial Psychology	3

General Education Requirements* -18 credits.

	Credits
English/Communications courses (Must include writing course; BUS 107 & BUS 108 recommended)	6
Science course	3
U.S./Nevada Constitutions course	3
Degree electives (COT 110, 200, 216 or 262, ECON 102 or 103 recommended)	6

*A list of courses fulfilling general education requirements is on page 26.

MATHEMATICS

Associate of Science Emphasis

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

DEGREE REQUIREMENTS - 60 credits.

Emphasis Requirements - 30 credits.

	Credits
MATH 181 Calculus I	4
MATH 182 Calculus II	4
MATH 283 Calculus III	4

Choose 6 credits from the following:

Math courses numbered 120 or higher, except MATH 122 & 123.

One class must be higher than MATH 200. STAT 152 is also accepted.

Choose 12 credits from at least two subject areas in the courses listed under Science Requirements for the Associate of Science degree.

Must include a minimum of four credits of lecture and laboratory from the same subject area.

General Education Requirements* - 30 credits.

	Credits
English/Communications course (Must include a writing course)	6
Fine Arts course	3
Humanities courses	6
Social Science courses	6
U.S./Nevada Constitutions course	3
Electives	6

*A list of courses fulfilling general education requirements is on page 24.

SUGGESTED COURSE SEQUENCE - Mathematics

First Semester	Completed	Third Semester	Completed
ENG 101	3 ☐	MATH 283	4 ☐
MATH 181	4 ☐	PHYS 180 w/lab	4 ☐
Fine Arts Elective	3 ☐	General Elective	3 ☐
US/Nev Constitutions	3 ☐	Humanities Elective	3 ☐
		Social Science Requirement	3 ☐
Second Semester		Fourth Semester	
ENG 102	3 ☐	CHEM 101 w/lab	4 ☐
MATH 182	4 ☐	MATH 285	3 ☐
Humanities Requirement	3 ☐	STAT 152	3 ☐
Science Elective	4 ☐	General Elective	3 ☐
Social Science Requirement	3 ☐		

SUGGESTED COURSE SEQUENCE - Management

First Semester	Completed	Third Semester	Completed
ACC 135B or 201	3 ☐	Degree Elective	3 ☐
BUS 101 or MGT 103	3 ☐	IS 101	3 ☐
BUS 109B or MATH	3 ☐	MGT 212	3 ☐
Degree Elective	3 ☐	MGT 235	3 ☐
ENG 101 or BUS 107	3 ☐	U.S./Nev Constitution	3 ☐
Second Semester		Fourth Semester	
ACC 136B or 202	3 ☐	BUS 150B or 273	3 ☐
COT 204	3 ☐	COT 202	3 ☐
ECON 102 or 103	3 ☐	Degree Elective	3 ☐
English Course	3 ☐	MGT 235 or 283	3 ☐
MGT 201	3 ☐	MKT 211 or 210	3 ☐

ACADEMIC DEGREES

MUSICAL THEATRE

Associate of Arts Program

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

DEGREE REQUIREMENTS - 64 credits.

Program Requirements - 34 credits.

	Credits
THTR 105 Introduction to Acting I	3
THTR 199 Play Structure and Analysis I	3
THTR 204 Theater Technology I	3
THTR 205 Introduction to Acting II	3
MUS 203 Music Theory I	3
Piano Proficiency	0
Total of 4 credits: MUSA 145/245 Voice @ 1 credit	4

Select 4 credits from the following:

DAN 132 Beginning Jazz Dance	1
DAN 135 Beginning Ballet	1
DAN 144 Beginning Tap Dance	1
DAN 232 Intermediate Jazz Dance	1
DAN 244 Intermediate Tap Dance	1

Total of four semesters participation in college productions:

MUS 176 Musical Theatre Practicum	6
THTR 209 Theater Practicum	2
Select from: MUS 121, THTR 100	3

General Education Requirements* - 30 credits.

	Credits
English/Communications Courses	6
Humanities Course	6
Mathematics Course	3
Science Courses	6
Social Science Courses	6
U.S./Nevada Constitutions Course	3

(The fine arts requirement is fulfilled by the program requirement)

* A list of courses fulfilling general education requirements is on page 23.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
DAN 135	1 ☐	DAN 132	1 ☐
English/Comm Course	3 ☐	Humanities Course	3 ☐
Humanities Course	3 ☐	MUS 121	3 ☐
MUS 176	3 ☐	MUS 276	3 ☐
MUSA 145	1 ☐	MUSA 245	1 ☐
Piano Proficiency	0 ☐	Social Science Course	3 ☐
Science Course	3 ☐	THTR 204	3 ☐
THTR 105	3 ☐		
<i>Second Semester</i>		<i>Fourth Semester</i>	
DAN 144	1 ☐	DAN 244	1 ☐
English/Comm Course	3 ☐	MUS 203	3 ☐
Mathematics Course	3 ☐	MUS 276	3 ☐
MUSA 145	3 ☐	MUSA 245	1 ☐
MUS 176	3 ☐	THTR 199	3 ☐
THTR 205	3 ☐	Social Science Course	3 ☐
U.S./Nev Constitution	3 ☐		

ACADEMIC DEGREES

ASSOCIATE DEGREE NURSING PROGRAM

WNCC's associate degree nursing program is intended for students seeking a career as a registered nurse. The curriculum is sequenced and progresses in complexity. Integration of knowledge from the bio/psycho/social sciences, humanities, and nursing is intended to prepare graduates to pass the national licensure examination and to function as registered nurses in diverse care settings.

Upon completion of the associate degree nursing program, students will be awarded an Associate of Applied Science degree. Graduates are eligible to sit for the National Council Licensing Examination for Registered Nurses (NCLEX-RN). Students completing the first year of the nursing program and NURS 162 are eligible to sit for the National Council Licensing Examination for Practical Nurses (NCLEX-PN).

The associate degree nursing program is approved by the Nevada State Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC). The address of the NLNAC is 61 Broadway Street, 33rd floor, New York, NY 10016 and the telephone number is (800) 669-9656. Applicants are advised that eligibility for licensure may be affected by the existence of a criminal record, a history of alcohol or drug abuse, and mental or physical illness that may interfere with the practice of nursing. Applicants are encouraged to contact the Office of Nursing and Allied Health or the Nevada State Board of Nursing should there be a concern regarding eligibility for licensure.

A limited number of qualified students are admitted as first semester students utilizing the selection criteria outlined below. The nursing program requires that pre- and corequisite courses be completed with a grade of "C" or better. Students admitted to the program are required to attend mandatory orientation sessions scheduled for the late spring or early summer and prior to the start of classes.

Associate of Applied Science - Nursing Mission & Outcomes

MISSION - The mission of the nursing program at Western Nevada Community 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.

Graduates are prepared to function in a variety of health care settings, providing culturally sensitive, holistic nursing care to individuals and families across the life span. 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 the value of lifelong learning.

STUDENT LEARNING OUTCOMES - The graduate will demonstrate the ability to:

1. Utilize the nursing process in the provision of care to patients guided by a variety of theoretical frameworks.
2. Apply critical thinking and problem-solving skills by integrating knowledge derived from the bio/psycho/social sciences, humanities, and nursing in the provision of patient care in a variety of health care settings.
3. Employ verbal and non-verbal communication skills in interactions with patients, families and health care providers to promote adaptation.
4. Acquire, apply and value knowledge necessary to demonstrate safe, competent, practice within the profession's ethical and legal framework.
5. Demonstrate accountability for one's own nursing practice and continued professional development.
6. Practice as a professional nurse by integrating the three roles of the associate degree nurse to promote health and assist patients to achieve the highest level of adaptation.

Selective Admission Requirements:

- Apply for admission to Western Nevada Community College and the WNCC Nursing Program. Nursing Program applications are available at each campus and on the WNCC web site.
- Provide proof of high school graduation or successful completion of the General Education Development (GED) exam.
- Show evidence of completion of high school chemistry or CHEM 121 within the last ten years.
- Complete all prerequisite courses prior to admission into the nursing program. (Note: The statute of limitations for all science courses is ten years.)
- Pass the Test of Essential Academic Skills with a minimum score of 40 percent for each of the four sub-tests.
- Submit completed application with supporting documents and required transcripts, as appropriate, to the Office of Admissions and Records in the time frame delineated on the nursing program application.

Other Important information:

- Nursing learning activities are scheduled on and off campus, days, evenings, and weekends.
- Clinical experiences take place at long-term health care facilities, acute care hospitals and community settings, including clinics, and day care centers.
- A grade of C (75 percent) or better is required in all nursing courses.
- Students who have been expelled from a nursing program, or who are no longer eligible for admission to that program, are not eligible for admission to WNCC's nursing program.
- Students not admitted to the nursing program must reapply to be considered for admission the following year.
- Documentation and currency of the following is required after acceptance into the nursing program and prior to the start of classes:
 1. An acceptable physical examination, and required immunizations,
 2. Health Care Provider/BLS CPR through the American Heart Association or the American Red Cross (card required),
 3. Health insurance (card required).

Admission/Selection Criteria

Category	Maximum Points Possible (in parentheses)			
Selected GPA (BIOL & CHEM pre- and corequisite courses)	2.0-2.49 (2)	2.5-3.0 (4)	3.1-3.49 (6)	3.5-4.0 (8)
GPA (pre- and/or corequisite courses)	2.0-2.49 (1)	2.5-3.0 (2)	3.1-3.49 (3)	3.5-4.0 (4)
Test of Essential Academic Skills (TEAS) (1)	40-54 (1)	55-69 (2)	70-84 (3)	85-99 (4)
(A minimum cut score of 40 percent is required for each subtest)				
Applicant Statement	(0-2 points)			
Completion of corequisite credits at time of application	3-6 (1)	7-9 (2)	10-12 (3)	13+ (4)
Health related experience	(1)			
Maximum Possible Points:	23			

ACADEMIC DEGREES

NURSING

Associate of Applied Science Program

DEGREE REQUIREMENTS: 72 credits.

Pre-nursing students must have completed one year of high school chemistry or must take CHEM 121 and pass the Test of Essential Academic Skills. For programs that require BIOL 223 & BIOL 224, both courses must be completed at the same college or university.

Prerequisite Courses - 13 credits.

	Credits
Behavioral science course (PSY 101 or SOC 101 required)	3
BIOL 223 Human Anatomy & Physiology I	4
ENG 101 Composition I	3
MATH 120, 126 or higher	3

FIRST YEAR

Fall Semester Courses - 15 credits.

	Credits
*BIOL 224 Human Anatomy & Physiology II	4
NURS 136 Foundations of Nursing Science	6
NURS 141 Foundations of Pharmacology in Nursing	2
NURS 200 Health Assessment of the Individual	3

Spring Semester Courses - 14 credits.

	Credits
*SOC 101 or PSY 101 or humanities/social science course	3
NURS 155 Childbearing/Childrearing Family Health	4
NURS 159 Clinical Nursing Across the Lifespan	7

SECOND YEAR

Fall Semester Courses - 14 credits.

	Credits
*BIOL 251 General Microbiology	4
NURS 265 Alterations in the Childbearing/Childrearing Family	6
NURS 270 Advanced Clinical Nursing I	4

Spring Semester Courses - 16 credits.

	Credits
ENG 102 or COM 215	3
NURS 280 Alterations in Psychosocial Adaptation	3
NURS 282 Advanced Clinical Nursing II	5
NURS 284 Role of the ADN Manager of Care	2
**US/NV Constitutions (PSC 103, HIST 111 or CH 203 recommended)	3

*Indicates corequisite

**A list of courses fulfilling general education requirements is on page 26.

OPTIONAL PRACTICAL NURSING PREPARATION

Certificate of Achievement

If the student successfully completes the first year of the program, including NURS 162 - Transitions to Practical Nursing course (3 credits), the student will receive a Certificate of Achievement and is eligible to take the National Council Licensing Examination - Practical Nurse (NCLEX-PN).

Note: NURS 162 is not required for progression to the second year.

CERTIFICATE REQUIREMENTS: 45 credits.

Spring Course

	Credits
NURS 162 Transitions to Practical Nursing (Required for Certificate of Achievement)	3

LICENSED PRACTICAL NURSE

Licensed practical nurses who have graduated from an accredited school of practical nursing may apply for advanced standing in the nursing program at WNCC. If the school is one other than WNCC, the student must have taken a practical nursing curriculum equivalent to that taught at WNCC, or must take the necessary classes to ensure an equivalent academic preparation. Credits will be evaluated for equivalency in the Office of Admissions and Records and by the appropriate nursing faculty as necessary.

In addition:

- Applicants with a restricted LPN license will be evaluated on an individual basis for possible acceptance.

- NURS 200 - Health Assessment of the Individual is a required course. Students are strongly encouraged to take NURS 200 prior to entering the second year of the program. Students may be admitted into the second year of the program without NURS 200 providing they have credit for BIOL 251. NURS 200 is a required third semester course for students who lack this course.

- Students must repeat or challenge by examination first year nursing coursework over ten years old. The challenge test utilized is the NLN Nursing Acceleration Challenge Exam (ACE) I - PN to RN. The student must achieve a 75 percent or better on the examination.

- LPN students whose science coursework is more than ten years old may take a competency examination. Please consult with the Office of Nursing & Allied Health for additional information.

Admission to the second year is based on:

- Qualifying under the selective admission requirements.

- Completion of all first year pre- and co-requisite courses (note exception for NURS 200). All required science coursework over ten years old must also be repeated.

- Successful completion of NURS 199B -- ADN Transition.

- Available space in the program.

In the event that more applications are received than space available, decisions regarding admissions will be made based upon the selection criteria used for first semester applicants.

Students Requesting Transfer and Re-admission into the Nursing Program

A limited number of qualified transfer and re-admission students are admitted into the nursing program on a space available basis. Please consult with the Office of Nursing and Allied Health for information regarding the process.

ACADEMIC DEGREES

PHYSICS

Associate of Science Emphasis

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

DEGREE REQUIREMENTS: 60-62 credits.

Emphasis Requirements - 36-38 credits.

	Credits
CHEM 201 General Chemistry I for Scientists and Engineers	4
CHEM 202 General Chemistry II for Scientists and Engineers	4
MATH 181 Calculus I	4
MATH 182 Calculus II	4
MATH 283 Calculus III	4
MATH 285 Differential Equations	3
PHYS 180/180L Engineering Physics I	4
PHYS 181/181L Engineering Physics II	4
PHYS 182/182L Engineering Physics III	4
PHYS 293 Directed Study	1-3

General Education Requirements* - 24 credits.

	Credits
English/Communications Courses	6
Fine Arts Course	3
Humanities Courses (CH 201 and 202 recommended)	6
Social Science Courses	6
U.S./NV Constitution Course	3

NOTE: CAPS 122 is strongly recommended but not required for graduation.

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

*A list of courses fulfilling general education requirements is on page 24.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
CHEM (121) 201	4 ☐	MATH 283	4 ☐
English course	3 ☐	PHYS 182/182L	4 ☐
Fine Arts course	3 ☐	Social Science courses	6 ☐
MATH 181	4 ☐		
PHYS 180/180L	4 ☐	<i>Fourth Semester</i>	
		Humanities courses	6 ☐
<i>Second Semester</i>		MATH 285	3 ☐
CHEM (122) 202	4 ☐	PHYS 293	1-3 ☐
English course	3 ☐	U.S./Nev Constitution	3 ☐
MATH 182	4 ☐		
PHYS 181/181L	4 ☐		

ACADEMIC DEGREES

REAL ESTATE

Associate of Applied Science Emphasis

The Real Estate emphasis has been designed to prepare students for careers in the real estate sales industry. Career opportunities also exist in commercial banking, escrow services, land planning and zoning, and land development. Approved continuing education credits completed through the Nevada Real Estate Division may be applied toward this degree as real estate electives.

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

DEGREE REQUIREMENTS - 60 credits.

Core Requirements - 15 credits.

	Credits
ACC 135B Bookkeeping I	3
& ACC 136B Bookkeeping II	3
or ACC 201 Financial Accounting	&
ACC 202 Managerial Accounting	
BUS 101 Introduction to Business	3
or MGT 103 Small Business Management	
MGT 201 Principles of Management	3
or MGT 212 Leadership & Human Relations	
or MGT 283 Personnel Administration	
RE 102B Real Estate Math	3
or BUS 109B Business Mathematics	
or MATH Higher level mathematics course	

Emphasis Requirements - 29-31 credits.

	Credits
BUS 273 Business Law	3
COT 202 Introduction to Computer Applications	3
COT 204 Using Windows	1-3
ECON 102 Principles of Macroeconomics	3
or ECON 103 Principles of Microeconomics	
IS 101 Introduction to Information Systems	3
RE 101 Real Estate Principles I	3
RE 103 Real Estate Principles II	3
RE 104 Real Estate Law & Conveyancing	3
RE 198B Real Estate Appraisal Law and Ethics	1
RE 206 Real Estate Appraising	3
Elective Any additional Real Estate course	3

General Education Requirements* - 14-16 credits.

	Credits
English/Communications courses	6
(Must include a writing course; BUS 107 and BUS 108 recommended)	
Degree electives	2-4
(RE 198B, 199, 201B, 202 or 205B recommended)	
Science course	3
U.S./Nevada Constitutions course	3

*A list of courses fulfilling general education requirements is on page 26.

STATE OF NEVADA

REAL ESTATE - SALES LICENSE

REQUIREMENTS - 6 credits.

	Credits
RE 101 Real Estate Principles I	3
RE 103 Real Estate Principles II	3

STATE OF NEVADA

REAL ESTATE - BROKER LICENSE

REQUIREMENTS - 64 credits.

	Credits
RE 101 Real Estate Principles I	3
RE 103 Real Estate Principles II	3
RE 201B Real Estate Brokerage	3
RE 206 Appraising	3
Real Estate, Business or Economics electives	15
General electives	37

STATE OF NEVADA

REAL ESTATE - RESIDENTIAL APPRAISER APPRENTICE LICENSE

REQUIREMENTS - 7 credits.

	Credits
RE 101 Real Estate Principles I	3
or RE 103 Real Estate Principles II	
RE 198B Real Estate Appraisal Law and Ethics	1
RE 206 Real Estate Appraising	3

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.

SURGICAL TECHNOLOGY

Certificate of Achievement

The Surgical Technology Certificate of Achievement program is intended for the student seeking a career as a surgical technologist. It is designed to be completed 10 months after admission into the program. The program is accredited by the Commission on Accreditation of Allied Health Education Programs. Upon completion of the program and college accreditation, students will be eligible to take the National Certification Examination for Surgical Technology.

Classroom and laboratory experiences include instruction and practice in operating room techniques, infection prevention and control, and basic care of surgical patients in the operating room. Clinical learning includes supervised, hands-on hospital experiences in scrubbing for a variety of surgical procedures.

Program Objectives

Upon completion of the program the graduate will demonstrate the ability to:

1. Integrate and value knowledge derived from the bio/psycho/social sciences, humanities and surgical technology while providing surgical care to patients in a variety of health care settings under the direction of a registered nurse;
2. Practice within the legal and ethical standards for Level I Surgical Technologist;
3. Use communication techniques appropriate to the setting;
4. Achieve the Level I competencies identified by the Association of Surgical Technologists by demonstrating:
 - a. knowledge and practice of basic patient care concepts;
 - b. application of the principles of asepsis in a knowledgeable manner that provides for optimal patient care in the operating room;
 - c. basic surgical case preparation skills;
 - d. the ability to perform the role of first scrub on all basic surgical cases;
 - e. responsible behavior as a health care professional.

Selective Admission Requirements

- Apply for admission to WNCC and the Surgical Technology program.
- Provide proof of high school graduation or successful completion of the General Education Development (GED) examination.
- Complete all prerequisite courses prior to admission into the program. *Note: science courses must be completed within the last 10 years.*
- Submit completed application with supporting documents and required transcripts, as appropriate, to the Office of Admissions and Records in the time frame delineated on the Surgical Technology program application.

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

A point system is utilized to make decisions regarding admission of applicants. All applicants will be evaluated in four areas following the criteria outlined below. Following this, the top ranking 20 to 25 applicants will be invited to participate in an interview.

Additional Information

- Learning activities are scheduled on and off campus during days, evenings and weekends. Students are required to provide their own transportation.
- Clinical experiences take place in acute care hospital and same day surgery centers.
- Documentation and currency of the following is required after acceptance into the Surgical Technology program and prior to the start of classes:
 1. Submission of an acceptable physical examination and required immunizations;
 2. Health Care Provider/BLS CPR certification from the American Heart Association or the Red Cross (card required);
 3. Health insurance (card required).

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

ACADEMIC DEGREES

SURGICAL TECHNOLOGY

CERTIFICATE REQUIREMENTS - 39-43 credits.

NOTE: For programs that require BIOL 223 and 224, both courses must be completed at the same school.

Prerequisite Courses: 10 credits.

		Credits
BIOL 223	Human Anatomy & Physiology I	4
or BIOL 200 & 204	Elements of Human Anatomy & Physiology & Lab	
ENG 101	Composition I	3
MATH 120	Fundamentals of College Mathematics	3
or MATH 124	College Algebra	
or MATH 126	Precalculus I (or higher)	
or MATH 100B	Math for Allied Health Programs	

Corequisite Courses: 3-7 credits.

		Credits
BIOL 224	Human Anatomy & Physiology II	0-4
(only if BIOL 223 taken as a prerequisite)		
Human Relations Course: Choose from following list:		3
ANTH 101	Introduction to Anthropology	
BUS 110B	Human Relations for Employment	
PSY 101	General Psychology	
PSY 102	Psychology of Personal & Social Adjustment	
PSY 280	Understanding Men and Women	
SOC 101	Principles of Sociology	
SOC 102	Contemporary Social Issues	
SOC 276	Aging in Modern American Society	

Subject Requirements - 26 credits.

		Credits
STE 101B	Foundations of Surgical Technology	3
STE 102B	Operating Room Techniques	4
STE 103B	Sterilization and Disinfection	3
STE 110B	Preparation of Surgical Patient	3
STE 111B	Surgical Procedures	4
STE 132B	Surgery Clinical Practice	9

Admission/Selection Criteria

Category	Maximum Points Possible (in parentheses)			
Anatomy & Physiology				
GPA*	2.0-2.49 (2)	2.5-3.0 (4)	3.1-3.49 (6)	3.5-4.0 (8)
GPA for English, Math & Human Relations courses	2.0-2.49	2.5-3.0	3.1-3.49	3.5-4.0
Points Awarded	(1)	(2)	(3)	(4)
Health related employment experience ** (Computed at .5 point intervals)				0 - 1 points
Employment experience other than health related (Computed at .5 point intervals)				0 - 1 points

* Students must complete all prerequisite and corequisite courses with a minimum grade of "C." Completion of corequisite courses and health related employment and employment experience other than health related employment is not required.

**Examples of health related employment experiences include: LPN, EMT, CNA, medical assistant, ward clerk, technician or orderly.

ACADEMIC DEGREES

WELDING TECHNOLOGY

Associate of Applied Science Program

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.

DEGREE REQUIREMENTS - 60 credits.

Program Requirements - 39 credits.

	Credits
DFT 100 Basic Technical Drawing	3
MTL 212 Welding I	3
MTL 213 Welding II	3
MTL 217B Welding III	3
MTL 218B Welding IV	3
MTL 291B Welding I/Practice	2
MTL 292B Welding II/Practice	2
MTL 293B Welding III/Practice	2
MTL 294B Welding IV/Practice	2
MTL 296B AWS Code Preparation	1-12

Choose 4-15 credits from the following:

MTT 105B Machine Shop I	3
or MTL 150B Metallurgy I	
MTL 224B Welding Projects	1-6
MTL 290B Metal Technology - Cooperative Education	1-4
MTL Related Metals courses	1-3

General Education Requirements* - 21 credits.

	Credits
English/Communications courses (BUS 107 is recommended; Must include a writing course)	6
Human Relations (BUS 110B recommended)	1-3
Humanities/Social Science course	3
Mathematics course	3
Science course	3
U.S./Nevada Constitution course	3
Electives	0-2

*A list of courses fulfilling general education requirements is on page 26.

WELDING TECHNOLOGY

Certificate of Achievement

CERTIFICATE REQUIREMENTS- 30 credits.

Subject Requirements - 18 credits.

	Credits
MTL 212 Welding I	3
MTL 213 Welding II	3
MTL 291B Welding I/Practice	2
MTL 292B Welding II/Practice	2
MTL 296B AWS Code Preparation	6
Metals electives	2

General Education Requirements* - 12 credits.

	Credits
English/Communications courses (BUS 107 is recommended; Must include a writing course)	6
Human Relations course (BUS 110B recommended)	1
Mathematics course	3
Elective	2

*A list of courses fulfilling general education requirements is on page 13.

SUGGESTED COURSE SEQUENCE

<i>First Semester</i>	Completed	<i>Third Semester</i>	Completed
MTL 212	3 ☐	DFT 100	3 ☐
MTL 291B	2 ☐	MTL 217B	3 ☐
MTT 105B	3 ☐	MTL 290B	2 ☐
English course	3 ☐	MTL 293B	2 ☐
Math course	3 ☐	MTL 296B	3 ☐
		Science course	3 ☐
<i>Second Semester</i>		<i>Fourth Semester</i>	
BUS 107	3 ☐	BUS 110B	3 ☐
MTL 213	3 ☐	MTL 218B	3 ☐
MTL 224B	3 ☐	MTL 290B	2 ☐
MTL 292B	2 ☐	MTL 294B	2 ☐
Human/Soc Sci course	3 ☐	MTL 296B	3 ☐
		U.S./Nev Constitution	3 ☐

COURSES

Accounting

Courses listed in this catalog are offered on a regular basis. Some courses may not be offered every semester or in all locations.

NUMBERING SYSTEM

WNCC's course numbering system helps students identify types of courses available at the college and their applicability toward specific degrees:

- 1-99: Developmental courses which do not apply toward a WNCC degree and normally do not transfer to a university.
- 100-299: College level courses which are designed to transfer within the University and Community College System of Nevada and often to other colleges and universities, as either an equivalent, a departmental elective or a general elective.
- 100B-299B: College level courses which generally apply toward a WNCC degree but may not transfer to other UCCSN schools. In some cases, these courses may transfer to out-of-state colleges and universities.
- 100C-299C: Community Education courses (CSVW) which generally do not apply toward college degrees.

ACCOUNTING

DEPARTMENT CODE: ACC

Note: ACC 204 and ACC 261 are transferable as general electives in all academic programs except for the College of Business at the University of Nevada, Reno and the University of Nevada-Las Vegas.

ACC 105: TAXATION FOR INDIVIDUALS

3 credits. Prerequisite: none.

Covers income, expenses, exclusions, deductions, and credits. Emphasizes the preparation of individual income tax.

ACC 135B: BOOKKEEPING I

3 credits. Prerequisite: none.

Introduces the basic principles of bookkeeping and applied accounting for a business enterprise with special emphasis on accounting for sole proprietorships, service and merchandising companies. Includes debits and credits, the accounting cycle, journals, ledgers, bank reconciliations, payroll, and the preparation of simple financial statements. May include a computerized component.

ACC 136B: BOOKKEEPING II

3 credits. Prerequisite: ACC 135B.

Continuation of ACC 135B. Includes accounting for merchandising enterprises, specialized journals and ledgers, accounting for notes and accounts receivable, inventory, fixed assets, and notes payable. Introduces accounting for other forms of business. May include a computerized component.

ACC 180B: PAYROLL AND EMPLOYEE BENEFIT ACCOUNTING

3 credits. Prerequisite: ACC 135B or ACC 201 or equivalent work experience.

Introduces payroll and employee benefit reporting to federal state, and local government agencies. Includes an overview of federal and state labor laws and specialized reporting requirements including both manual and computerized payroll accounting systems.

ACC 198B: SPECIAL TOPICS IN ACCOUNTING

1-3 credits. Prerequisite: none.

Applies to a variety of topics including short courses and workshops covering a variety of subjects in accounting.

ACC 201: FINANCIAL ACCOUNTING

3 credits. Prerequisite: none. Recommend ACC 135B and ACC 136B.

Introduces the basic principles of financial accounting for business enterprises with special emphasis on accounting for corporations. Includes theory of debit and credit, accounting cycle, special journals, receivables, depreciation, inventory, long-term debt, corporate capital, and preparation of basic financial statements.

ACC 202: MANAGERIAL ACCOUNTING

3 credits. Prerequisite: ACC 201. MATH 95 or equivalent recommended.

Introduces the basic principles of management accounting including manufacturing and cost accounting, budgeting, accounting for management decision-making, financial statement analysis and the statement of cash flows.

ACC 203: INTERMEDIATE ACCOUNTING I

3 credits. Prerequisite: ACC 202. This course is accepted in lieu of ACC 401 at UNR or UNLV upon validation of content and knowledge by approved College of Business examination, or satisfactory performance ("C" or better) in ACC 402 at UNR or UNLV during the first year of eligibility to enroll in the appropriate upper division business course at UNR or UNLV.

Emphasizes accounting theory, concepts and analysis of problems that arise in applying these concepts. Course covers in depth the traditional topics as well as recent developments in accounting valuation, accounting for cash, receivables, prepaid and accrued items, plant and equipment.

ACC 204: INTERMEDIATE ACCOUNTING II

3 credits. Prerequisite: ACC 203.

Emphasizes accounting theory and concepts in corporate accounting. Areas of focus will include stockholder's equity, investments in securities and funds, financial reporting, and analysis of financial statements.

ACC 220: MICROCOMPUTER ACCOUNTING SYSTEMS

3 credits. Prerequisite: ACC 136B or ACC 201.

Integrates the principles of accounting and the concepts of data processing. Students will become familiar with computerized accounting systems which are realistic examples of systems used in business today.

COURSES

Accounting • Adult Basic Education • Aeronautics • Agriculture

ACC 251: INTRODUCTION TO AUDITING

3 credits. Prerequisite: ACC 201 and ACC 202.

Provides an overview of the auditing process including internal, external, and governmental auditing.

ACC 261: GOVERNMENTAL ACCOUNTING

3 credits. Prerequisite: ACC 201.

Introduces accounting and reporting for government and non-profit entities. Includes study of fund and budget accounts of local governmental units, revenues, appropriations, disbursements and assessments.

ACC 295B: WORK EXPERIENCE I

1-6 credits. Prerequisite: consent of instructor.

Provides on-the-job supervised and educationally directed work experience.

ACC 299B: ADVANCED SPECIAL TOPICS IN ACCOUNTING

1-3 credits. Prerequisite: ACC 201 and ACC 202.

Applies to a variety of advanced topics including short courses and workshops covering a variety of subjects in accounting.

ADULT BASIC EDUCATION

DEPARTMENT CODE: ABE

ABE classes are available at WNCC through a grant-funded program. Please contact the ABE program for further information.

AERONAUTICS

DEPARTMENT CODE: AERO

AERO 101B: BASIC GROUND SCHOOL FOR PILOTS

3 credits. Prerequisite: none.

Teaches federal air regulations, aerial navigation, general service and safety practices and the use of the radio.

AGRICULTURE

DEPARTMENT CODE: AG

AG 101: PLANT, SOIL AND WATER SCIENCE

3 credits. Prerequisite: none.

Introduces plant, soil and water science as applied to agriculture in Nevada. Includes a discussion of fertilization, irrigation, botany, soil conservation, and pollution.

AG 102B: LANDSCAPING/ORNAMENTAL HORTICULTURE

3 credits. Prerequisite: none.

Examines the basic principles and procedures involved in creating, constructing and maintaining a useful and functional landscape environment.

AG 120B: RODEO SKILLS AND MANAGEMENT

1 credit. Prerequisite: none.

Acquaints the student with the sport of rodeo, its origin and development, as well as rodeo fundamentals including rule interpretation, rodeo judging, and fundamental arena safety and procedure. Students will learn adaptive techniques and skills of the various rodeo events. Subjects include history of rodeo, rule interpretation, positive mental attitudes, and goal setting.

AG 121B: RODEO PRODUCTION AND PROMOTION

1 credit. Prerequisite: none. May be repeated for a total of two credits.

Provides experience in the production of a rodeo. Students will participate on a committee which will deal with staging an actual rodeo from start to the finished product. May be taken two times for credit.

AG 122B: INTERCOLLEGIATE RODEO

2 credits. Prerequisite: medical approval by licensed physician. Enrollment is limited to those qualified to compete in intercollegiate rodeo.

Corequisite: AG 120B or 121B. May be repeated for a total of four credits. Provides students the opportunity to further their rodeo skills and utilize them in intercollegiate competition. Includes adaptation techniques of various rodeo events.

AG 123B: ADVANCED INTERCOLLEGIATE RODEO

2 credits. Prerequisite: medical approval by licensed physician. Enrollment is limited to those qualified to compete. Corequisite: AG 120B or 121B. May be repeated for a total of four credits.

Provides students with previous experience with the opportunity to further their rodeo skills and utilize them in intercollegiate competition. Includes adaptation techniques of various rodeo events.

AG 124B: HORSESHOEING

2 credits. Prerequisite: none.

Provides students with the fundamental understanding of horse-shoeing and the anatomy and physiology of the horse pastern and legs. Topics will include how the horse travels as it applies to horseshoeing and how to shoe a horse properly without harm to the one doing the horseshoeing or the horse.

AG 125B: TEAM ROPING

2 credits. Prerequisite: Horseback riding skills and proof of insurance.

Develops and improves basic team roping skills. Class will cover a brief history of this rodeo event as well as the sport's popularity and growth. Class time will be spent on groundwork of both heading and heeling as well as roping steers while on horseback. The student will be required to supply his or her own horse, equipment, and rope. Emphasis will be on horsemanship and safety.

AG 160B: AGRICULTURAL CHEMICALS AND FERTILIZERS

3 credits. Prerequisite: none.

Examines the use of chemicals for the control of weeds and insects in Nevada, as well as the use, value, application and relationship of agricultural fertilizers to soils and crops.

AG 209B: HORSE MANAGEMENT

1 credit. Prerequisite: none.

Gives the student practical working knowledge of general horse care and management. Includes conformation, related soundness and unsoundness, feeds, feeding and nutrition, grooming and hoof care, horse diseases and ailments, and preventative maintenance.

COURSES

Agriculture • American Sign Language • Animal Husbandry

AG 213B: RANCHERS AND THE LAW

1 credit. Prerequisite: none.

Examines the legal aspects of ranching, such as the Taylor Grazing Act, water rights and laws, state Department of Agriculture laws and regulations, Dredge and Fill Act, Water Quality Act, easement and rights of way, OSHA and NIC.

AG 215: RANGE MANAGEMENT

3 credits. Prerequisite: none.

Examines principles of range and pasture management which will result in sustained yield grazing and maximum production of quality animals. Studies the science and art of procuring maximum sustained use of the forage crops without jeopardizing other resources and uses of the land.

AMERICAN SIGN LANGUAGE

DEPARTMENT CODE: AM

AM 145: AMERICAN SIGN LANGUAGE I

4 credits. Prerequisite: none.

Introduces ASL and focuses on the development of basic conversational skills, emphasizing receptive abilities.

AM 146: AMERICAN SIGN LANGUAGE II

4 credits. Prerequisite: AM 145.

Continues to stress the development of basic conversational skills with emphasis on expanding vocabulary and expressive skills.

AM 147: AMERICAN SIGN LANGUAGE III

4 credits. Prerequisite: AM 146.

Promotes the shifting from comprehension to production of ASL to bring one's ASL fluency to a point of self generated ASL.

AM 148: AMERICAN SIGN LANGUAGE IV

4 credits. Prerequisite: AM 147.

Encourages the student to expand his or her command of discourse in ASL on various everyday topics.

AM 149: AMERICAN SIGN LANGUAGE V

4 credits. Prerequisite: AM 148.

Encourages majors in Deaf Studies to further develop their conversational ASL abilities, particularly in the area of self expression.

AM 151: FINGERSPELLING I

1 credit. Prerequisite: AM 147.

Develops basic skills in receptive and expressive fingerspelling.

AM 152: FINGERSPELLING II

1 credit. Prerequisite: AM 151.

Improves receptive and expressive fingerspelling skills to intermediate/advanced levels.

AM 153: DEAF CULTURE

3 credits. Prerequisite: AM 145.

Offers a study of people who are deafened. Includes clinical and audiological descriptions of deafness and its course.

AM 154: DEAF HISTORY

3 credits. Prerequisite: none.

Examines segments of the history of deaf people and the deaf community, as well as the deaf experience from a historical perspective.

AM 201: INTERPRETING I

3 credits. Prerequisite: AM 146.

Exposes students to the profession of sign language interpretation, providing them with an opportunity to determine their interest in the field.

AM 202: INTERPRETING II

3 credits. Prerequisite: AM 201.

Develops the student's receptive and expressive skills in interpreting. Includes a series of activities leading from consecutive interpretation to simultaneous interpretation skills.

AM 203: INTERPRETING III

3 credits. Prerequisite: AM 202.

Develops the student's receptive and expressive skills in interpreting for deaf individuals. Follows a sequenced series of consecutive interpretation to simultaneous interpretation skills.

AM 204: PRACTICUM IN SIGN LANGUAGE INTERPRETING

1 credit. Prerequisite: AM 203.

Offers advanced interpreting student exposure to and practical experience in sign language interpreting.

ANIMAL HUSBANDRY

DEPARTMENT CODE: AH

AH 101: LIVESTOCK PRODUCTION & SELECTION

3 credits. Prerequisite: none.

Examines anatomy and physiology, genetics, nutrition, livestock selection, management and marketing of the various breeds of beef and dairy cattle, sheep and swine.

AH 103B: HOLISTIC VETERINARY HORSE CARE

2 credits. Prerequisite: none.

Offers comprehensive medical management for the horse, including farriery, nutrition, dentistry, reproduction, medical management, and chiropractic care.

AH 110B: LIVESTOCK BREEDING & SELECTION

3 credits. Prerequisite: none.

Examines approaches to the selection of livestock by conformation, pedigree and performance. Focuses on reproductive system, gestation and birth, principles of heredity, systems and problems of breeding livestock.

AH 201: APPLIED ANIMAL NUTRITION

3 credits. Prerequisite: none.

Focuses on the nutritional requirements of livestock, the balancing of feed rations, and the costs of feeding.

COURSES

Animal Husbandry • Anthropology • Art

AH 207: LIVESTOCK DISEASES AND PARASITES

3 credits. Prerequisite: none.

Deals with the identification and control of infectious and non-infectious livestock diseases and parasites as they relate to the livestock industry in Nevada.

AH 299: SPECIAL TOPICS IN HUSBANDRY

1-3 credits. Prerequisite: none.

Offers short courses and workshops covering a variety of subjects.

ANTHROPOLOGY

DEPARTMENT CODE: ANTH

ANTH 101: INTRODUCTION TO CULTURAL ANTHROPOLOGY

3 credits. Prerequisite: none.

Introduces human culture and society. Provides an understanding of human diversity through a comparative study of politics, religion, economics and social organization.

ANTH 102: INTRODUCTION TO PHYSICAL ANTHROPOLOGY

3 credits. Prerequisite: none.

Explores the biological and evolutionary origins of humans, with consideration of population genetics, living primates, fossil records and human variation. May be taken in conjunction with ANTH 110L: Physical Anthropology Lab.

ANTH 110L: PHYSICAL ANTHROPOLOGY LAB

1 credit. Prerequisite: none. Corequisite: must be enrolled in ANTH 102.

Provides practical experience in aspects of physical anthropology: the mechanisms of inheritance, osteology and forensic science, comparative anatomy and human evolution, and aspects of modern human variability.

ANTH 201: PEOPLES AND CULTURES OF THE WORLD

3 credits. Prerequisite: none.

Offers a comparative study of human societies and their institutions.

ANTH 202: ARCHAEOLOGY

3 credits. Prerequisite: none.

Surveys archaeology in the Old and New Worlds. Examines methods used by archaeologists to describe and explain prehistoric cultures.

ANTH 205: ETHNIC GROUPS IN CONTEMPORARY SOCIETIES

3 credits. Prerequisite: introductory course in one of the social sciences.

Examines the ways that groups in racially and ethnically diverse societies interact with each other. Uses these examples to draw conclusions about cultural differences and conflicts, with special emphasis on the United States. Also listed as SOC 205.

ANTH 210: INDIANS OF NEVADA TODAY

3 credits. Prerequisite: ANTH 101 or consent of instructor.

Surveys the Native American population of Nevada and adjacent areas with emphasis on contemporary reservation conditions.

ANTH 212: INDIANS OF NORTH AMERICA

3 credits. Prerequisite: none.

Surveys traditional life and modern conditions of American Indians with emphasis on the western United States.

ART (See also Crafts & Graphic Communications sections)

DEPARTMENT CODE: ART

ART 101: DRAWING I

3 credits: 1 hour lecture/4 hours studio per week. Prerequisite: none.

Develops drawing skills through practice with a broad variety of drawing tools and techniques.

ART 102: DRAWING II

3 credits: 1 hour lecture/4 hours studio per week. Prerequisite: ART 101.

Continues ART 101 with increased emphasis on the refinement of drawing skills.

ART 107: DESIGN FUNDAMENTALS I (2-D)

3 credits: 1 hour lecture/4 hours studio per week. Prerequisite: none.

Introduces the basic elements of pictorial organization, and to the practice of using those elements in the production of art. Formerly ART/GA 109-Introduction to Visual Arts.

ART 108: DESIGN FUNDAMENTALS II (2-D)

3 credits: 1 hour lecture/4 hours studio per week. Prerequisite: ART 107.

Explores the fundamentals of design utilizing various media while focusing on three-dimensional design and sculptural practices.

ART 110: STAINED GLASS

3 credits. Prerequisite: none.

Introduces stained glass window creation and artwork utilizing traditional and contemporary techniques.

ART 111: BEGINNING CERAMICS

3 credits. Prerequisite: none.

Introduces basic ceramic techniques and concepts including both hand-built and wheel thrown vessels as well as both utilitarian and non-utilitarian ceramic forms.

ART 114: BEGINNING CRAFTS

3 credits. Prerequisite: none.

Explores craft techniques and concepts utilizing a variety of traditional and contemporary printmaking.

ART 115: BEGINNING CLAY SCULPTURE

3 credits. Prerequisite: none.

Introduces students to clay as a medium for sculptural design. Focus is on human head, small animal sculpture and mold-making.

ART 124: BEGINNING PRINTMAKING

3 credits. Prerequisite: none.

Introduces printmaking processes emphasizing relief, intaglio and screen processes.

COURSES

Art

ART 127: WATERCOLOR I

3 credits. Prerequisite: none.

Offers a beginning course in watercolor painting with emphasis on materials and techniques which contribute to the production of quality works of art.

ART 131: INTRODUCTION TO PAINTING

3 credits. Prerequisite: none.

Introduces the basics of various traditional and contemporary painting media.

ART 135: PHOTOGRAPHY I

3 credits. Prerequisite: none. Student must provide a 35mm camera.

Introduces black and white photography and the 35mm camera. The course is designed as a beginning or refresher class in understanding photo taking and darkroom procedures.

ART 141: INTRODUCTION TO DIGITAL PHOTOGRAPHY I

1-3 credits. May be repeated for up to 6 credits. Prerequisite: ART 135.

Teaches image editing software to retouch, enhance and manipulate photographic images. Includes importing both digital and film-based images into the computer, improving and altering images in the software program, and various methods of outputting the final product. Aesthetic composition and design principles will be stressed.

ART 142: INTRODUCTION TO DIGITAL PHOTOGRAPHY II

1-3 credits; may be repeated for up to six credits. Prerequisite: ART 141 or consent of the instructor.

Teaches more advanced features of Adobe PhotoShop software and how to create a multimedia PowerPoint show.

ART 160: ART APPRECIATION

3 credits. Prerequisite: none.

Studies art, artists and art media of various historical periods to develop the student's capacity to evaluate and appreciate them.

ART 201: LIFE DRAWING I

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite: ART 101.

Practices drawing the human figure from nude models. Emphasizes the expressive potentialities of human figure, and the production of quality drawings.

ART 208: FIBER ARTS

3 credits. Prerequisite: none.

Introduces students to fiber based techniques and concepts including contemporary uses of quilting and fabric dyes, among other techniques, as a fine art form.

ART 211: CERAMICS I

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite: none.

Offers a beginning studio course in ceramic construction and decoration. Lecture and laboratory methods are used to give special attention to the development of individual student's skills. Uses potter's wheels.

ART 212: CERAMICS II

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite: ART 275.

Continues ART 211 with increased attention given to further refinement of skills.

ART 216: SCULPTURE I

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite: none.

Offers fundamentals of sculpture using plaster, wood and other materials.

ART 217: SCULPTURE II

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite:

ART 216 or consent of instructor.

Offers studio classes in techniques and skills of subtractive and additive sculpture.

ART 224: INTERMEDIATE PRINTMAKING

3 credits. Prerequisite: ART 124.

Continues ART 124 with emphasis on digital imaging techniques for intaglio and lithographic processes.

ART 227: WATERCOLOR II

3 credits. Prerequisite: ART 127.

Continues exploration of watercolor techniques and concepts including gouache and related media.

ART 231: PAINTING I

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite: none.

Offers a beginning course in oil and/or acrylic painting. Introduces concepts and develops skills for the production of quality paintings.

ART 232: PAINTING II

3 credits. 1 hour lecture/4 hours studio per week. Prerequisite: ART 231.

Continues ART 231, with increased emphasis on refinement of basic painting skills.

ART 235: PHOTOGRAPHY II

3 credits. Prerequisite: ART 135. Student must provide a camera.

Broadens students' understanding of photographic imagery and continues to develop greater technical knowledge and skill.

ART 236: PHOTOGRAPHY III

3 credits. Prerequisite: ART 235. Students must provide a camera.

Deals with studio and on-location commercial photography. Provides the basics about studio lighting and procedures.

ART 243: DIGITAL IMAGING I

3 credits. Prerequisite: none. Students must provide a camera.

Introduces raster image creation and manipulation on the computer. Covers industry standard software and hardware with the goal of creating 2D artwork and digital photography on the computer.

ART 244: DIGITAL IMAGING II

3 credits. Prerequisite: ART 243.

Offers advanced raster image creation and manipulation on the computer. This course is second in a sequential set of courses that focuses on creating 2D art work and digital photography on the computer.

COURSES

Art • Astronomy • Automotive

ART 260: SURVEY OF ART HISTORY I

3 credits. Prerequisite: none.

Surveys art of the western world from prehistoric times through the Gothic Period. Formerly ART 116-Survey of the Art of Western Civilization I.

ART 261: SURVEY OF ART HISTORY II

3 credits. Prerequisite: none.

Surveys art of the western world from the Renaissance to the present.

ART 296: INDEPENDENT STUDY

1-3 credits; may be repeated for up to six credits. Prerequisite: none.

Focuses on independent exploration of studio techniques and concepts as discussed with the instructor during on-on-one critiques and instruction.

ART 297: FIELD STUDY

1-3 credits. Prerequisite: none.

A study of art in its cultural and historical setting with potential visits to museums, galleries, and art studios.

ART 298: PORTFOLIO EMPHASIS

3 credits. Prerequisite: none.

Offers input for artist portfolios by means of critique and resolving a conceptual body of work in a professional portfolio presentation.

ART 299: SPECIAL TOPICS IN STUDIO ART

1-3 credits. May be repeated for up to six credits. Prerequisite: none.

Applies to assorted short courses and workshops covering a variety of subjects.

ASTRONOMY

DEPARTMENT CODE: AST

AST 100: SPECIAL TOPICS: WHITE DWARFS, NEUTRON STARS AND BLACK HOLES

1 credit. Prerequisite: none

Covers an assortment of exotic and fascinating stellar and astronomical objects that are at the center of modern astronomy. Studies the life cycles of both large and small mass stars as well as new developments and discoveries from a wide range of topics in astrophysics.

AST 105: INTRODUCTORY ASTRONOMY LABORATORY

1 credit. Prerequisite: AST 109 or AST 110 or consent of instructor.

Presents laboratory exercises in astronomy in the tradition of the amateur astronomer. Includes observation of celestial objects as well as laboratory exercises to investigate the physical nature of astronomical objects. Instructs on the use of telescopes and the process of the scientific method. Recommended for non-science majors.

AST 109: PLANETARY ASTRONOMY

3 credits. Prerequisite: MATH 120 or MATH 126 or higher, or consent of instructor.

Offers a descriptive introduction to current concepts of the solar system, modern observational techniques, and their results. Utilizes telescopes and observatory facilities.

AST 110: STELLAR ASTRONOMY

3 credits. Prerequisite: MATH 120 or MATH 126 or higher, or consent of instructor.

Offers a descriptive introduction to stellar and galactic systems, the life cycle of stars, theories of the universe and its formation. Utilizes telescopes and observatory facilities.

AST 190: PROJECTS IN OBSERVATIONAL ASTRONOMY

3 credits. Prerequisite: AST 105 or consent of instructor.

Develops skills in observational astronomy with a project-oriented course. Uses high quality equipment such as cameras, photometers, telescopes and heliostats. Laboratory course recommended for non-science majors.

AST 198B: SPECIAL TOPICS IN ASTRONOMY

0.5-6 credits. Prerequisite: none. May be repeated for up to six credits.

Includes short courses and experimental classes covering a variety of subjects.

AST 290B: INTERNSHIP IN ASTRONOMY

1-8 credits. Prerequisite: consent of instructor.

Allows students to apply knowledge to real, on-the-job situations in a program designed by a company official and faculty advisor to maximize learning experiences. Students may earn up to eight credits on the basis of 45 hours of internship per credit.

AST 299B: DIRECTED STUDY

1-3 credits. Prerequisite: consent of instructor.

Covers selected topics and directed student research of interest to students in astronomy.

AUTOMOTIVE

DEPARTMENT CODE: AUTO

AUTO 101B: INTRODUCTION TO GENERAL MECHANICS

3 credits. Prerequisite: none.

Introduces principles, design, construction and maintenance of automobiles. Includes safety, use of manuals, selection and use of hand tools, and hand-held test instruments. Introduces general maintenance of various systems.

AUTO 102B: AUTOMOTIVE ELECTRICITY

3 credits. Prerequisite: none.

Introduces principles and theory of automotive electricity and the maintenance of automobile electrical systems. Includes safety, use of manuals, selection and use of hand tools, and hand-held test instruments. Introduces a variety of electrical systems and accessories.

AUTO 103B: STARTING, CHARGING & ELECTRICAL SYSTEMS

3-6 credits. Prerequisite: AUTO 102B or consent of instructor.

Continues presentation of material from AUTO 102B. Reviews and amplifies principles and theory of automotive electricity and the maintenance of automobile electrical systems. Provides instruction in electronic applications. Includes safety, use of manuals, selection and use of hand tools and hand-held test instruments. Introduces testing and servicing of automotive electronic components. Expands on general maintenance of various starting systems and accessories.

COURSES

Automotive

AUTO 107B: MOTORCYCLE MAINTENANCE I

3 credits. Prerequisite: none.

Introduces principles, design, construction, and maintenance of motorcycles. Includes shop safety, use of manuals, selection and use of hand tools, and hand-held test instruments. Introduces general maintenance of various systems.

AUTO 108B: MOTORCYCLE MAINTENANCE II

3 credits. Prerequisite: AUTO 107B or consent of instructor.

Continues AUTO 107B. Introduces principles, design, construction and maintenance of motorcycles. Includes safety, use of manuals, selection and use of hand tools and hand-held test instruments. Introduces general maintenance of various motorcycle systems.

AUTO 112B: AUTOMOTIVE ELECTRICITY PRACTICE

3-6 credits. Prerequisite: AUTO 102B or consent of instructor

Further develops student skills by putting into practice the theories taught in AUTO 102B. Provides practical, hands-on experience through the use of Multi meters, VAT 40, manuals, selection and use of hand tools, and hand-held test instruments. Shop safety and cleanup are always stressed.

AUTO 121B: AUTOMOTIVE BRAKE SYSTEMS

3 credits. Prerequisite: none.

Introduces principles, design, construction and maintenance of automotive brake systems including antilock systems. Includes safety, use of manuals, selection and use of hand tools, power tools and hand-held test instruments. Introduces general maintenance of various systems.

AUTO 123B: AUTOMOTIVE BRAKE SYSTEMS PRACTICE

1-6 credits. Prerequisite: AUTO 121B or consent of instructor.

Further develops student skills by putting into practice the theories taught in AUTO 121B. Provides practical, hands-on experience through the use of the brake lathe and bleeder, scanners, troubleshooting guides and brake hand tools. Shop safety and cleanup are always stressed.

AUTO 125B: STEERING AND SUSPENSION SYSTEMS

3 credits. Prerequisite: none.

Introduces principles, design, construction and maintenance of automotive steering and suspension systems. Includes safety, use of manuals, and selection and use of hand tools, power tools and test equipment.

AUTO 126B: STEERING SUSPENSION SYSTEM PRACTICE

3-6 credits. Prerequisite: AUTO 125B or consent of instructor.

Develops student skills by putting into practice the theories taught in AUTO 125B. The emphasis will be geared to a more practical, hands-on experience through the use of the computer 4-wheel alignment, scanners, use of manuals, selection and use of hand tools and hand-held test instruments. Expands on maintenance of a variety of systems and accessories. Shop safety and cleanup are always stressed.

AUTO 140B: AUTOMOTIVE COLLISION I

3 credits. Prerequisite: none.

Provides fundamental instruction of hands-on skill and knowledge in auto body construction, tools, safety. Students will also work with metal, plastics, fiberglass and trim.

AUTO 141B: PLASTIC, COMPOSITES AND ADHESIVES

1-6 credits. Prerequisite: AUTO 140B or consent of instructor.

Offers an in-depth study of the new plastics, composite panels and the adhesion process.

AUTO 142B: AUTOMOTIVE COLLISION AND REFINISHING ESTIMATING

3-6 credits. Prerequisite: basic computer skills.

Familiarizes students with the estimating portion of the auto collision and refinishing program. The course involves analyzing damage in-depth, creating a damage report and using computer software for the process.

AUTO 143B: AUTOMOTIVE COLLISION I PRACTICE

1-6 credits. Prerequisite: none.

Develops student skills by putting into practice the theories taught in AUTO 140B. The emphasis will be geared to more practical, hands-on experience through the use of grinders, orbital sanders and all collision repair equipment. Shop safety and cleanup are always stressed.

AUTO 144B: PLASTIC, COMPOSITES AND ADHESIVES PRACTICE

1-6 credits. Prerequisite: AUTO 140B & AUTO 145B.

Further develops student skills by putting into practice the theories taught in AUTO 141B. The emphasis will be geared to a more practical, hands-on experience through an in-depth study of the new plastics, composite panels and the adhesion process for them.

AUTO 145B: AUTOMOTIVE REFINISHING I

3 credits. Prerequisite: none.

Provides fundamental instruction of hands-on skill and knowledge in auto painting and refinishing, including metal preparation, sanding techniques, masking and priming.

AUTO 146B: AUTOMOTIVE REFINISHING PRACTICE

1-6 credits. Prerequisite: none.

Further develops student skills by putting into practice the theories taught in AUTO 145B. The emphasis will be geared to a more practical, hands-on experience through use of the various spray guns and finish techniques.

AUTO 160B: BEGINNING AUTOMOTIVE UPHOLSTERY

3-6 credits. Prerequisite: none.

Covers the basics of cutting, fitting and stitching for all types of seats in cars, vans, motorcycles and boats. The student will learn how to operate the sewing machine, lay out patterns and repair seat frames.

AUTO 201B: AUTO BODY REPAIR

3 credits. Prerequisite: none.

Provides fundamental instruction of hands-on skill and knowledge in auto body construction, tools, safety, and work with metal, plastic, fiberglass and trim.

COURSES

Automotive

AUTO 202B: AUTO PAINTING

3 credits. Prerequisite: none.

Provides fundamental instruction of hands-on skill and knowledge in the painting and refinishing of auto bodies, including metal preparation, sanding techniques, masking and priming.

AUTO 204B: ADVANCED AUTO BODY II

3 credits. Prerequisite: AUTO 201B.

Continues AUTO 201B with more advanced hands-on skill and knowledge in auto body construction, tools, safety and work with metal, plastic, fiberglass and trim.

AUTO 206B: AUTO PAINTING II

3 credits. Prerequisite: AUTO 202B.

Continues AUTO 202B with more advanced hands-on skill and knowledge in the painting and refinishing of auto bodies.

AUTO 218B: TUNE-UP PROCEDURES

3 credits. Prerequisite: none.

Introduces principles, design, construction and maintenance of automobile ignition systems. Includes safety, use of manuals selection and use of hand tools, and hand-held test instruments. Introduces general maintenance of various systems.

AUTO 221B: AUTOMOTIVE EMISSION CONTROLS

3 credits. Prerequisite: AUTO 218B.

Guides the student through the basic theory of automotive emissions, description of emission control, operation of the controls system, trouble shooting and repair. Includes safety, use of manuals, selection and use of hand tools and hand-held test instruments and engine analyzers.

AUTO 223B: ADVANCED ENGINE TUNE-UP

3 credits. Prerequisite: AUTO 218B or consent of instructor.

Introduces principles, design, construction and maintenance of automobile ignition systems and fuel systems. Includes safety, use of manuals, selection and use of hand tools, hand-held test instruments and engine analyzers. Introduces general maintenance of various systems.

AUTO 225B: AUTO AIR CONDITIONING

3 credits. Prerequisite: none.

Introduces principles design, construction and maintenance of automotive air conditioning systems. Includes safety, use of manuals, selection and use of hand tools, and hand-held test instruments, evacuating systems, charging/recovery systems and other specialized air conditioning tools. Introduces general maintenance of various air conditioning systems.

AUTO 226B: AUTOMATIC TRANSMISSIONS

3 credits. Prerequisite: none.

Introduces principles, design, construction and maintenance of automatic transmissions used in today's automobiles. Includes safety, use of manuals, selection and use of hand tools, and appropriate transmission test instruments. Introduces maintenance of various automatic transmissions.

AUTO 227B: STANDARD TRANSMISSIONS

3 credits. Prerequisite: none.

Introduces principles, design, construction and maintenance of automotive standard transmission. Includes safety, use of manuals, selection and use of hand tools, power tools and test equipment. Studies transmission principles and systems. Includes disassembly and overhaul of various standard automobile transmissions.

AUTO 229B: ADVANCED AUTOMOTIVE ELECTRICITY

3 credits. Prerequisite: AUTO 102B.

Continues study of material presented in AUTO 102B. Reviews and amplifies principles and theory of automotive electricity and the maintenance of automobile electrical systems. Focuses on electronic applications. Includes safety, use of manuals, selection and use of hand tools and hand-held test instruments. Introduces testing and servicing automotive electronic components. Expands on maintenance of various systems and accessories.

AUTO 230B: ADVANCED AUTOMATIC TRANSMISSIONS

3 credits. Prerequisite: AUTO 226B.

Concentrates on knowledge, skills, principles, design, construction and maintenance of automatic transmissions used in today's automobiles. Amplifies competencies learned in AUTO 226B. Includes safety, use of manuals, selection and use of hand tools, and appropriate transmission test instruments. Introduces general maintenance of various automatic transmissions.

AUTO 236B: AUTOMOTIVE COMPUTER SYSTEMS

3 credits. Prerequisite: AUTO 223B or consent of instructor.

Introduces principles, design, construction and maintenance of automobile ignition systems and fuel systems. Studies General Motors, Ford EEC, Chrysler and foreign computer systems. Covers principles of operation, fuel managements, air management and all sensors including solenoids. Reviews basic electricity, electronic spark timing and high energy ignition systems. Includes safety, use of manuals, selection and use of hand tools, hand-held test instruments and engine analyzers.

AUTO 237B: AUTOMOTIVE SCOPE DIAGNOSTICS

1-3 credits. Prerequisite: AUTO 218B or consent of instructor.

Provides an in-depth study of scope patterns to include lab scope patterns, DIS patterns and sensor waveform patterns. Student will be able to distinguish between good and bad patterns upon completion of the course.

AUTO 240B: AUTOMOTIVE COLLISION II

6 credits. Prerequisite: AUTO 140B.

Continues AUTO 140B with more advanced hands-on skills and knowledge in auto body construction, tools and safety. The student works with metal, plastic, fiberglass, glass, composites and trim.

AUTO 241B: AUTOMOTIVE COLLISION II PRACTICE

1-9 credits. Prerequisite: AUTO 240B.

Further develops student skills by putting into practice the theories taught in AUTO 240B. The emphasis will be geared to a more practical, hands-on experience through the use of frame machines, laser measuring devices, and various shop equipment and hand tools.

COURSES

Automotive • Biology

AUTO 245B: AUTOMOTIVE REFINISHING II

6 credits. Prerequisite: AUTO 145B.

Continues AUTO 145B, with more advanced hands-on skills and knowledge in painting, blending, mixing, matching and refinishing.

AUTO 246B: AUTOMOTIVE REFINISHING II PRACTICE

1-9 credits. Prerequisite: AUTO 245B.

Further develops student skills by putting into practice the theories taught in AUTO 245B. Emphasizes a more practical, hands-on experience through use of different style guns and spray equipment, paint materials, color matching, etc.

AUTO 250B: ENGINE RECONDITIONING

3 credits. Prerequisite: AUTO 101B.

Introduces principles, design, construction and maintenance of automobile engines. Includes overhaul of various systems in the engine (valve, train, oiling system, etc.) safety, use of manuals, selection and use of hand tools. Introduces a variety of systems.

AUTO 260B: ADVANCED AUTOMOTIVE UPHOLSTERY

3-6 credits. Prerequisite: AUTO 160B.

Continues Beginning AUTO 160B. Students work with custom upholstery designs such as tuck and roll, button and pleat, etc. Includes work with convertible tops, vinyl tops and headliners.

AUTO 285B: AUTOMOTIVE PROJECTS

3 credits. Prerequisite: consent of instructor.

Permits students to pursue special projects and/or explore areas of specific interest under the direction of a college instructor.

AUTO 293B: INDEPENDENT STUDY

1-3 credits. Prerequisite: consent of instructor.

Offers individualized, in-depth study of a specific area of automotive mechanics.

AUTO 295B: WORK EXPERIENCE I

1-4 credits. Prerequisite: consent of instructor.

Provides the student with on-the-job, supervised and educationally directed work experience.

BIOLOGY

DEPARTMENT CODE: BIOL

BIOL 100: GENERAL BIOLOGY FOR NON-SCIENCE MAJORS

3 credits. Prerequisite: MATH 120 or MATH 126 or higher, or consent of instructor.

Covers fundamental concepts and theories of life science. Major topics include cellular/molecular biology, anatomy, physiology, genetics, evolutions and ecology.

BIOL 113: LIFE IN THE OCEANS

3 credits. Prerequisite: none.

Introduces the plants, animals and microorganisms of the oceans with an emphasis on important marine ecosystems such as intertidal zones, estuaries, and coral reefs.

BIOL 190/190L: INTRODUCTION TO CELL AND MOLECULAR BIOLOGY/LAB

3 credits lecture, 1 credit lab. Prerequisite or corequisite: CHEM 121 or equivalent.

Covers the structure and function of cells. Included will be the major molecules of life, composition and physiology of cellular organelles, cellular metabolism, reproduction, motility, gene function and related topics. Students must enroll in both lecture and lab to receive credit. Note: BIOL 190/190L plus BIOL 191/191L transfer to UNR as fulfilling BIOL 190, 191 and 192 requirements.

BIOL 191/191L: INTRODUCTION TO ORGANISMAL BIOLOGY/LAB

3 credits lecture, 1 credit lab. Prerequisite or corequisite: CHEM 121.

Combines the principles of botany and zoology into one course emphasizing levels of organization and life processes common to all organisms. Topics range from nutrient processing and homeostasis to reproduction. Students must enroll in both lecture and lab to receive credit. Note: BIOL 190/190L plus BIOL 191/191L transfer to UNR as fulfilling BIOL 190, 191 and 192 requirements.

BIOL 200: ELEMENTS OF HUMAN ANATOMY AND PHYSIOLOGY

3 credits. Prerequisite: none.

Provides students with an intense, descriptive overview of anatomy and physiology with related, illustrative pathology and microbiology.

BIOL 204: ELEMENTS OF HUMAN ANATOMY AND PHYSIOLOGY LABORATORY

1 credit. Prerequisite: none. Corequisite: BIOL 200.

Provides students with intense laboratory exercises about anatomy and physiology with related, illustrative pathology and microbiology.

BIOL 208: INTRODUCTION TO HUMAN GENETICS

3 credits. Prerequisite: BIOL 190 or CHEM 111 or CHEM 220.

Offers a basic science (Mendelian genetics, cytogenetics, molecular genetics) and detailed clinical case study and correlation-oriented (pedigree analysis, gene cloning, inborn errors of metabolism) course that demonstrates the principles of genetics/heredity in human health and disease. This course is strongly recommended for those pursuing pre-medical studies.

BIOL 212: INTRODUCTION TO HUMAN GENETICS LABORATORY

1 credit. Pre- or corequisite: BIOL 208.

Provides an opportunity to learn how to extract and amplify genomic DNA using the polymerase chain reaction; apply concepts of chemistry and evolutionary biology to study an organism they choose; identify a question involving their chosen organism and answer it using DNA technology; research and identify protocols and materials such as M-SAT primers specific to the organism they choose; subject data to statistical analysis and relate their findings to concepts of evolution.

COURSES

Biology • Botany • Business • Chemical Engineering

BIOL 223: HUMAN ANATOMY AND PHYSIOLOGY I

4 credits, 3 hours lecture/3 hours laboratory per week. Prerequisite: BIOL 190 or CHEM 110 or CHEM 121 or meet nursing program chemistry requirement or consent of instructor. NOTE: For programs that require BIOL 223 and 224, both courses must be completed at the same school.

Offers detailed study of the anatomy and physiology of the integumentary, skeletal, endocrine, muscular and nervous systems.

BIOL 224: HUMAN ANATOMY AND PHYSIOLOGY II

4 credits, 3 hours lecture/3 hours laboratory per week. Prerequisite: BIOL 223 or consent of instructor. NOTE: For programs that require BIOL 223 and 224, both courses must be completed at the same school.

Offers a detailed study of the anatomy and physiology of the circulatory, respiratory, digestive, urinary and reproductive systems.

BIOL 251: GENERAL MICROBIOLOGY

4 credits, 3 hours lecture/3 hours laboratory per week.

Prerequisite: BIOL 100, 191 or 223.

Emphasizes the distribution, form, structure and physiology of microorganisms in laboratory. Develops the student's skills in aseptic procedures, isolation and identification. Recommended for all allied health majors.

BOTANY

DEPARTMENT CODE: BOT

BOT 150B: BOTANY FOR GARDENERS

3 credits. Prerequisite: none.

Teaches moderately technical botany in the context of gardening and horticulture. Exposes students to the science of botany with general discussion encompassing plant physiology and the importance of soil science. Begins with understanding basic cell structure and moves through plant growth, photosynthesis, and reproduction. Plant responses to environmental factors will be emphasized and genetics will be covered as appropriate.

BUSINESS

DEPARTMENT CODE: BUS

BUS 100B: INVESTMENTS

3 credits. Prerequisite: none.

Helps students understand the theoretical concepts and analytical foundations necessary for further study in the field. It will provide an overall picture of securities markets, institutions, processes and mechanisms on how stocks and bonds are bought and sold.

BUS 101: INTRODUCTION TO BUSINESS

3 credits. Prerequisite: none.

Provides the student a broad background about the modern business world. An important course for students who are considering choosing a business major.

BUS 107: BUSINESS COMMUNICATIONS

3 credits. Prerequisite: none.

Focuses on speech communication skills. Includes effective listening and feedback methods, voice improvement, group and team interaction, developing messages for positive and negative audiences, preparation and presentation of an oral report.

BUS 108: BUSINESS LETTERS AND REPORTS

3 credits. Prerequisite: College Board Test of Standard Written English or equivalent examination, or a grade of "C" or better in English 98.

Develops letter and report writing skills including proper word choice, letter tone, and structure. Demonstrates how these skills are best used in business letters, memoranda, reports and other business documents.

BUS 109B: BUSINESS MATHEMATICS

3 credits. Prerequisite: none.

Reviews fundamental mathematical processes for the vendor and the consumer. Discounts, commissions, depreciation, overhead and interest rates are included.

BUS 110B: HUMAN RELATIONS FOR EMPLOYMENT

1-3 credits. Prerequisite: none.

Provides students/prospective employees with knowledge and understanding of self and others for effective interactions in the workplace. Emphasizes employability skills such as communication, work habits and attitudes, ethics, conflict management, motivation and problem solving.

BUS 150B: PERSONAL FINANCE

3 credits. Prerequisite: none.

Introduces personal financial planning. Emphasizes budgeting, obtaining credit, buying decisions for a home, auto or other large purchases, investment decisions, and retirement planning.

BUS 273/274: BUSINESS LAW I & II

3 credits. Prerequisite: none. BUS 101 or BUS 108 recommended.

Teaches the nature and sources of law. Studies the court systems and law as related to contracts, negotiable instruments, sales, insurance, and agencies.

BUS 286B: DEVELOPING YOUR RESUME

1 credit. Prerequisite: none.

Prepares students to produce functional, chronological and electronic resumes to match their skills, experience and education to the desired job.

BUS 287B: INTERVIEWING TECHNIQUES

1 credit. Prerequisite: none.

Provides students and prospective employees successful interviewing skills, which include taped mock interviews and evaluations. Interviewing attire will be addressed.

CHEMICAL ENGINEERING

DEPARTMENT CODE: CEG

CEG 120: SUMMER COOPERATIVE TRAINING

1 credit. Prerequisite: enrollment in engineering program.

Requires preparation of written reports based on cooperative program assignments.

COURSES

Chemistry • Chinese • Cisco Technologies

CHEMISTRY

DEPARTMENT CODE: CHEM

CHEM 100: MOLECULES AND LIFE IN THE MODERN WORLD

3 credits. Prerequisite: MATH 120; Corequisite: MATH 126 & MATH 127 or MATH 128 or higher.

Introduces chemistry with emphasis on impacts on human society, environmental issues, energy sources and life processes. Includes four laboratory experiments.

CHEM 110: CHEMISTRY FOR HEALTH SCIENCES I

4 credits. 3 hours lecture/3 hours laboratory. Prerequisite: MATH 120; Corequisite: MATH 126 & MATH 127 or MATH 128 or higher.

Surveys elementary principles of general chemistry and introductory organic chemistry and their applications to living systems. For students pursuing careers in allied health.

CHEM 111: CHEMISTRY FOR HEALTH SCIENCES II

4 credits. 3 hours lecture/3 hours laboratory. Prerequisite: CHEM 110.

Continues CHEM 110. Surveys additional elementary principles of organic chemistry and fundamental principles of biochemistry and their applications to living systems. For students pursuing careers in allied health.

CHEM 121: GENERAL CHEMISTRY I

4 credits. 3 hours lecture/3 hours laboratory. Prerequisite: MATH 120; Corequisite: MATH 126 & MATH 127 or MATH 128 or higher.

Provides fundamentals of chemistry including reaction stoichiometry, atomic structure, chemical binding, molecular structure, states of matter and thermochemistry. Credit allowed in only one of CHEM 121 or 201.

CHEM 122: GENERAL CHEMISTRY II

4 credits. 3 hours lecture/3 hours laboratory. Prerequisite: CHEM 121 and MATH 126 & MATH 127 or MATH 128 or higher.

Provides fundamentals of chemistry including solutions, kinetics, equilibria, thermodynamics, electrochemistry, nuclear chemistry and properties of inorganic and organic compounds. Credit allowed in only one of CHEM 122 or 202.

CHEM 201: GENERAL CHEMISTRY FOR SCIENTISTS & ENGINEERS I

4 credits, 3 hours lecture/3 hours laboratory. Prerequisite: 28 or above on the math ACT examination and/or a year of high school chemistry. Prerequisite or corequisite: MATH 181.

Explores principles of chemistry including stoichiometry, atomic structure, chemical bonding, molecular structure, kinetic theory of gases, solutions, equilibrium, and thermochemistry. Credit allowed in only one of CHEM 121 or 201.

CHEM 202: GENERAL CHEMISTRY FOR SCIENTISTS & ENGINEERS II

4 credits. 3 hours lecture/3 hours laboratory. Prerequisite: CHEM 201 (CHEM 121 acceptable with a grade of A or B); and MATH 181.

Explores principles of chemistry including thermodynamics, electrochemistry, chemical kinetics, nuclear chemistry, metals and non-metals, coordination compounds and properties of inorganic, organic and biological molecules. Credit allowed in only one of CHEM 122 or 202.

CHEM 220: INTRODUCTORY ORGANIC CHEMISTRY

4 credits, 3 hours lecture/3 hours laboratory. Prerequisite: CHEM 121 or consent of instructor. CHEM 122 recommended.

Surveys the principles of carbon chemistry. Credit allowed in only one of CHEM 220 or 241.

CHEM 241: ORGANIC CHEMISTRY I

3 credits. 3 hours lecture. Prerequisite: CHEM 122 or CHEM 202.

Introduces the chemistry of carbon compounds; functional groups; relationships among molecular structure, properties and reactivity and biological relevance. For life and environmental sciences majors. Credit allowed in only one of CHEM 220 or 241.

CHEM 242: ORGANIC CHEMISTRY II

3 credits. 3 hours lecture. Prerequisite: CHEM 241.

Continues CHEM 241. Provides an emphasis on functional groups, fundamental reaction mechanisms, and biomolecules. For life science and sciences majors.

CHEM 245: ORGANIC CHEMISTRY LABORATORY

2 credits. 6 hours/week. Prerequisite: CHEM 241 or consent of instructor. NOTE: This course transfers to other institutions in the UCCSN as the combination of CHEM 241L + 242L and is accepted at UNR in lieu of CHEM 345 as fulfilling major or minor requirements.

Explores chemical practices in the organic chemistry laboratory including isolation, characterization, and synthesis of organic compounds including qualitative analysis and spectroscopy.

CHINESE

DEPARTMENT CODE: CHI

CHI 101B: CONVERSATIONAL CHINESE I

2 credits. Prerequisite: none.

Emphasizes oral communication skills. Reading and writing explored. Chinese-English vocabulary is developed.

CHI 102B: CONVERSATIONAL CHINESE II

3 credits. Prerequisite: CHI 102B.

Continues skills learned in CHI 101B.

CISCO TECHNOLOGIES

DEPARTMENT CODE: CSCO

CSCO 120B: CISCO INTERNETWORKING ACADEMIES I

4 credits. Prerequisite: consent of instructor.

Initiates a four-semester program on the principles and practices of designing, building and maintaining networks capable of supporting national and global organizations. The Networking Academy features hands-on, project-driven training in high demand job skills.

CSCO 121B: CISCO INTERNETWORKING ACADEMIES II

4 credits. Prerequisite: CIT 240B or consent of instructor.

Offers the second course of a four-semester program on the principles and practices of designing, building and maintaining networks capable of supporting national and global organizations. The Networking Academy features hands-on, project-driven training in high demand job skills.

COURSES

Cisco Technologies • Communication

CSCO 130B: FUNDAMENTALS OF WIRELESS LANS

4 credits. Prerequisite: none.

Focuses on the design, planning, implementation, operation and troubleshooting of wireless networks. Course covers a comprehensive overview of technologies, security and design best practices with particular emphasis on hands-on skills.

CSCO 220B: CISCO INTERNETWORKING ACADEMIES III

4 credits. Prerequisite: CIT 241B or consent of instructor.

Provides the third course of a four-semester program on the principles and practices of designing, building and maintaining networks capable of supporting national and global organizations. The Networking Academy features hands-on, project-driven training in high demand job skills.

CSCO 221B: CISCO INTERNETWORKING ACADEMIES IV

4 credits. Prerequisite: CIT 242B or consent of instructor.

Completes a four-semester program on the principles and practices of designing, building and maintaining networks capable of supporting national and global organizations. The Networking Academy features hands-on, project-driven training in high demand job skills.

CSCO 280B: ADVANCED ROUTING

4 credits. Prerequisite: CSCO 221B.

Provides the learner with in-depth information on interior gateway protocols (IGPs) including EIGRP, OSPF and IS-IS. It also provides information on BGP, an exterior protocol (EGP). Course covers routing principles of both distance vector and link-state routing protocols; IP addressing techniques; the theory behind the various routing protocols; and configuration and troubleshooting information for each protocol. Hands-on lab exercises allow the learner to practice configuration and troubleshooting knowledge and the skills necessary to configure these protocols in working networks.

CSCO 281B: REMOTE ACCESS

4 credits. Prerequisite: CSCO 280B or consent of instructor.

Teaches students the fundamentals of remote access connectivity. Students install, configure, monitor and troubleshoot Cisco ISDN and Dial-up access products and further refine their understanding of PPP, ISDN, Frame-Relay and AAA Security. Hands-on lab exercises allow the learner to practice configuration and troubleshooting knowledge and to acquire the skills necessary to configure these protocols in working networks.

CSCO 282B: MULTI-LAYER SWITCHING

4 credits. Prerequisite: CSCO 281B or consent of instructor.

Teaches how to build campus networks using multi-layer switching technologies over high speed Ethernet. Course includes both routing and switching concepts, covering both Layer 2 and Layer 3 technologies. Hands-on lab exercises allow the learner to practice configuration and troubleshooting knowledge and to acquire the skills necessary to configure these protocols in working networks.

CSCO 283B: INTERNETWORK TROUBLESHOOTING

4 credits. Prerequisite: CSCO 282B or consent of instructor.

Teaches students troubleshooting in a multi-protocol, multi-layer internetworking environment. Students gain hands-on experience troubleshooting Ethernet and Token-Ring LANs, IP and IPX networks as well as ISDN, PPP and Frame Relay networks. Hands-on lab exercises allow the learner to practice configuration and troubleshooting knowledge and to acquire the skills necessary to configure these protocols in working networks.

COMMUNICATION

DEPARTMENT CODE: COM

COM 101: ORAL COMMUNICATIONS

3 credits. Prerequisite: none.

Introduces theories and practice of oral communication, including argumentative discourse.

COM 113: FUNDAMENTALS OF SPEECH COMMUNICATION

3 credits. Prerequisite: none.

Studies theories and principles of speech, public speaking, discussion, interpersonal communication and oral interpretation.

COM 120: INTRODUCTION TO BROADCASTING

3 credits. Prerequisite: none.

Emphasizes history of radio and television broadcasting, study of laws that have governed broadcasting, survey of the growth, concepts, problems, and operations of broadcast facilities and their employees; special considerations involving the major organizations of broadcasting: FCC, NAB, etc.; and opportunities in the field.

COM 160: TELEVISION PRODUCTION I

3 credits. Prerequisite: none.

Develops skills in basic television writing, directing and producing for the beginning student.

COM 210: INTRODUCTION TO COMMUNICATION

3 credits. Prerequisite: none.

Surveys the theories of human communication. Studies the nature of speech communication process.

COM 213: PUBLIC SPEAKING

3 credits. Prerequisite: none.

Practices the delivery and theory in the composition of public speeches, including message development, organization and style.

COM 215: INTRODUCTION TO GROUP COMMUNICATION

3 credits. Prerequisite: none.

Develops skills in group communication situations with emphasis on effective participation in groups, listening skills, persuasion, cooperative problem solving, and discussion.

COM 299: SPECIAL TOPICS IN COMMUNICATION

1-3 credits. Prerequisite: none.

Investigates a special topic or technique of speech communication.

COURSES

Community Education • Computer and Office Technology

COMMUNITY EDUCATION CLASSES

The Community Education department offers a wide range of courses. These include non-credit offerings such as short workshops, field trips, leisure classes, and College for Kids classes. Community Education also offers classes in a variety of disciplines and vocational programs in which the student may earn a certification of completion. Courses and their descriptions are listed in WNCC's semester course publication.

COMPUTER AND OFFICE TECHNOLOGY

DEPARTMENT CODE: COT

Prior to enrolling in a COT course, all students are advised to take the college standardized reading comprehension exam.

NOTE: All typing/keyboarding classes are taught on computers.

COT 100B: BASIC KEYBOARDING

1-3 credits. Prerequisite: none.

Develops basic skills for touch keyboarding/typing proficiency on computers. Develops basic speed and accuracy. Introduces basic computer operations for using keyboarding software.

COT 101: COMPUTER KEYBOARDING I

1-3 credits. Prerequisite: none.

Reviews basic skills and techniques for improving keyboarding/typing skills. Elementary word processing functions are introduced. Develops skills for typing basic business letters, memos, reports, tables and personal business letters. Diagnostic prescriptive speed and accuracy are integral.

COT 102: COMPUTER KEYBOARDING II

1-3 credits. Prerequisite: COT 101 or equivalent.

Reviews skills and techniques for improving typing skills on computers. Word processing functions are introduced. Advanced production work includes a variety of business documents, such as letters, tables, forms, manuscripts and memos. Diagnostic prescriptive speed and accuracy are integral. Recommend 30 WPM minimum keyboarding/typing speed.

COT 103B: KEYBOARDING REVIEW & SPEED

1-3 credits. Prerequisite: COT 101 or equivalent.

Increases typing speed and accuracy to employable levels of 50+ WPM. Lessons contain timings. Student is encouraged to meet speed and accuracy goals at each level.

COT 105: COMPUTER LITERACY

3 credits. Prerequisite: none.

Introduces persons who have no background in computers to operations and uses of computers, their applications, capabilities and limitations. Looks at the impact of the computer on society. Includes extensive hands-on computer use.

COT 106B: VOICE RECOGNITION

1-3 credits. Prerequisite: none. Recommend COT 100B or typing skills of 25 wpm.

Introduces students to voice recognition software by learning the fundamentals of the specific speech recognition software and using headsets and/or microphones. Students create speech profiles, practice enunciation, correct speech errors, and train new words. Students work with punctuation, numbers, and formatting commands. Skills are applied to various personal and occupational documents.

COT 110: BUSINESS MACHINES

1-3 credits. Prerequisite: COT 101 or consent of instructor.

Develops skills using electronic printing calculators. Skills are applied to business math problems including touch addition with whole numbers, multiplication, division, fractions and decimals, percentages, markdown and markup, interest, payrolls and installment buying. Additional applications will be assigned from microcomputer business problems, data entry software, transcribing machines, filing and records management, and other office applications. (Depending on the campus, all choices may not be available.)

COT 111: TRANSCRIBING MACHINES

1-3 credits. Prerequisite: COT 102 or equivalent.

Develops listening skills in transcribing tapes to mailable type-written form. Students study vocabulary and type documents used in typing speed and word processing skills.

COT 112B: COMPUTER SURVIVAL

.5-6 credits. Prerequisite: none.

Provides a series of beginning computer classes. Each section will deal with a different aspect of computers: basic word processing, Internet, digital photography, computer graphics, etc.

COT 113B: INTEGRATED SOFTWARE

3 credits. Prerequisite: IS 101 or COT 202.

Studies integrated software packages. Includes theory and lab activities, and covers word processing, database, spreadsheet, graphics and the communications components of specific application packages. Emphasizes linking several modules to create an integrated activity.

COT 114B: GENERAL MEDICAL OFFICE BILLING

3 credits. Prerequisite: COT 124B.

Provides business students and medical office staff with the fundamental office procedures for the medical front office. The course includes a comprehensive overview of medical front office skills including office communication, filing, scheduling, health insurance and basic accounting techniques.

COT 115B: COMPUTERIZED MEDICAL OFFICE BILLING

3 credits. Prerequisite: COT 101 or equivalent, COT 124B or consent of instructor, COT 225B.

Provides instruction in completing and submitting medical insurance forms. Designed for prospective medical assistant anticipating employment in a private physician's office, clinic or hospital, or for those currently employed in medical offices who wish to improve their skills. Course is set up as a practice approach to learning insurance form completion.

COURSES

Computer and Office Technology

COT 116B: MEDICAL OFFICE FILING

1-3 credits. Prerequisite: none.

Covers topics in medical filing, numeric filing, alphabetic filing, cross-referencing, color coding, records control, and computer assisted filing. Filing rules are compatible with Association of Records Managers and Administrators (ARMA) guidelines. Hands-on applications of filing rules provide students with practical experience.

COT 117B: GENERAL OFFICE FILING

1 credit. Prerequisite: none. Class may be repeated for a total of four credits.

Introduces a systems approach to managing information -- paper and electronic records. Includes practical guidelines for appropriately using records management systems in handling paper and electronic media.

COT 122: MEDICAL TYPING & TRANSCRIPTION

1-4 credits. Prerequisite: COT 124B or NURS 140, and 40 wpm or permission of instructor.

Reviews medical terminology and develops the skill of listening to cassette tapes containing verbally recorded medical case histories and records and transcribing the material directly into an accurate format.

COT 123: LEGAL TYPING & TRANSCRIPTION

1-3 credits. Prerequisite: COT 102, COT 150B, or NURS 140 and 40 wpm strongly recommended.

Reviews legal terminology and develops the skill of listening to cassette tapes containing verbally recorded legal documents and transcribing the material directly into an accurate format.

COT 124B: MEDICAL OFFICE TERMINOLOGY

1-3 credits. Prerequisite: none.

Provides a self-paced course for learning the fundamental structure of many medical words. Pronunciation and spelling are included. Appropriate for medical office specialists and beginning nursing students.

COT 126B: POWERPOINT FOR OFFICES

1 credit. Prerequisite: none.

Introduces hands-on instruction in the most common beginning features of the PowerPoint program. Emphasis on creation and edition of office documents in accordance with proper office practices. Intended for students who desire professional quality beginning skills in PowerPoint.

COT 131B: LEGAL OFFICE ETHICS & PRACTICE

1 credit. Prerequisite: LAW 101.

Teaches organizational and practical office skills; office and human resources management, training and supervision, conflict and problem solving; prioritizing; billing; ethics; and applied skills.

COT 140B: ADOBE ACROBAT

1 credit. Prerequisite: IS 101 or equivalent experience.

Presents the essential tool for universal document exchange, Adobe Acrobat. Students will learn to publish virtually any document in Portable Document Format (PDF). They will learn the fundamental concepts and features of the program plus advanced features such as creating forms and managing color in PDF files. It also reviews the design of documents for online viewing.

COT 141B: PROOF-A-MATICS/PROOFREADING

1 credit. Prerequisite: none.

Teaches proofreading skills in two ways: physically, by developing visual accuracy and reducing fatigue; and cognitively, by providing practice in language skills.

COT 150B: INTRODUCTION TO WORDPERFECT

1-3 credits. Prerequisite: Recommend minimum typing speed of 40 wpm

Offers a hands-on computer course designed to teach students the basic functions of WordPerfect. Topics include creating, editing, saving and printing documents. Covering these topics includes special features such as blocking, search-and-replace, headers and footers, footnotes, spell and thesaurus utilities, merging and macros. Variable credit based on current course schedule.

COT 151B: INTRODUCTION TO MICROSOFT WORD

1-3 credits. Prerequisite: Recommended typing speed of 40 wpm.

Introduces Microsoft Word for Windows, a powerful word processing package that produces documents and handles a large number of routine tasks with ease. Beginning course is designed for people who are at a basic level and want to learn a general overview of the program as well as be productive with simple tasks. Document creation, editing, saving and retrieving files, printing, spell checking, formatting, search and replace, thesaurus and special effects will be covered.

COT 198B: SPECIAL TOPICS

1-6 credits. Class credits will vary depending on the content and number of hours required. Prerequisite: varies based on topic.

Applies to assorted short courses and workshops covering a variety of subjects.

COT 200: BEGINNING WORD PROCESSING I

1-3 credits. Prerequisite: COT 102 or equivalent: 40 wpm recommended.

Presents word processing concepts and applications to produce memos, letters, tables and reports on computer. Includes creating, editing and printing documents, merging, storage and retrieval, search and replace, and spell check.

COT 202: INTRODUCTION TO COMPUTER APPLICATIONS

3 credits. Prerequisite: IS 101. Keyboarding skills will be helpful.

Introduction to microcomputer, computers in business and microcomputer software tools including word processors, spreadsheets and database management systems.

COT 204: USING WINDOWS

3-9 credits. Prerequisite: none.

Covers how the Windows Graphic User interface is used, how to customize Windows and how to use the various accessories and parts of the Windows program.

COURSES

Computer and Office Technology

COT 207B: BUSINESS APPLICATIONS ON THE INTERNET

3 credits. Prerequisite: IS 101 or equivalent experience.

Covers the use of the Internet for business and entrepreneurial purposes. Topics include integration of the Microsoft Office Suite with the World Wide Web, daily basic business practices online and Intranet/Internet site development.

COT 211: ADVANCED TYPING III

3 credits. Prerequisite: COT 102 or equivalent.

Continues speed and accuracy development. Includes typing more difficult problems in business correspondence, tabulations, forms, reports, rough drafts and legal documents.

COT 212: ADVANCED TYPING IV

3 credits. Prerequisite: COT 211 or equivalent.

Provides course work using advanced word processing techniques to produce business letters, forms and reports. Emphasizes selected technical materials from a variety of office settings.

COT 216: INTERMEDIATE WORD PROCESSING

3 credits. Prerequisite: COT 150B or equivalent. 40 WPM recommended.

Assists students who have completed a beginning word processing class. Applies advanced features of merge and sort, macros, tables, math, document assembly and font and graphic enhancements.

COT 217B: OFFICE PUBLICATIONS

1-3 credits. Prerequisite: COT 150, COT 200, COT 216 or COT 222.

Introduces students to basic techniques of desktop publishing and web page publishing in an office environment using Microsoft Publisher and Microsoft FrontPage applications. Students will learn how to plan and design a publication, format text, work with art, use styles and work with multiple pages. Course will also cover the creation and maintenance of simple web sites, including using links, table, frames and forms.

COT 222: DESKTOP PUBLISHING WITH WORD PROCESSING

1-3 credits. Prerequisite: COT 150, or consent of instructor.

Presents an overview of desktop publishing concepts and applications using desktop software. Students will learn to import word processed files and graphics, and use menus/commands and printers to produce newsletters, brochures, fliers and reports on a computer.

COT 223: ADVANCED DESKTOP PUBLISHING

3 credits. Prerequisite: COT 222 or IS 101 or consent of instructor.

Teaches a page layout desktop publishing program such as Page-Maker, InDesign or QuarkXPress. Students create computer graphics, select and set type, design and assemble pages, and import text and graphics files to produce effective printed materials such as newsletters, forms, brochures, manuals and presentations using laser printer technology.

COT 225B: MEDICAL FRONT OFFICE

1-3 credits. Prerequisite: COT 124B or consent of instructor.

Provides course work using medical administrative software. Students learn to input patient information, schedule appointments, and handle billing. Additionally, they produce various lists and reports, and learn to handle insurance claims both on paper forms and electronically. Introduces skills that are important in effective financial management of health care practices.

COT 233B: ADVANCED MEDICAL TRANSCRIPTION

3 credits. Prerequisite: COT 122.

Provides students with a knowledge of medical terminology and the transcription of medical reports. Students are required to complete complex reports. Experience in keyboarding/typing concepts and procedures is required. Medical reports will be transcribed from medical areas that relate to patients with specific medical problems. Case studies have been taken from hospital medical records.

COT 234B: ADVANCED MEDICAL TERMINOLOGY

3 credits. Prerequisite: COT 124.

Provides a self-paced, continued study of the body systems, clinical procedures, laboratory tests, pronunciation of terms, operative and diagnostic records, abbreviations, and practical application. Also reviews basic medical terminology such as word structure, suffixes, and prefixes. Designed for the continuing student who plans employment in the medical office.

COT 239B: ADVANCED LEGAL TRANSCRIPTION

3 credits. Prerequisite: COT 123 or equivalent.

Teaches students to operate the transcribing machine and to format legal correspondence and documents directly from dictation into mailable form. Legal correspondence and documents will be transcribed for legal cases, each relating to a different area of law. Cases have been gathered from actual law office files. Students will work on cases from onset through conclusion.

COT 241: OFFICE SUPERVISION

3 credits. Prerequisite: none.

Acquaints students with basic concepts in administrative office management. Focuses on managing human resources and controlling administrative services. Includes recruiting, orienting, motivating, defining appropriate work habits, training and supervising personnel, office job analysis and salary administration, conflict and problem solving techniques, communication in the office and applied skills. Stresses employability skills.

COT 262: INTERMEDIATE SPREADSHEET CONCEPTS

1-3 credits. Prerequisite: IS 101 or consent of instructor.

Studies the concepts and capabilities of computer spreadsheet systems. Teaches command and macro generation. Students gain experience generating spreadsheet templates, graphs and macros as business problem-solving tools. When offered for variable credit, content will be divided as follows: A) Concepts and capabilities of the computer spreadsheet with spreadsheet generation; B) Experience with the user-level menu access of the software, including graphing; C) More advanced capabilities of database and macro generation.

COURSES

Computer and Office Technology • Computer Applications Computer Information Technology

COT 266: INTERMEDIATE DATABASE SYSTEMS

1-3 credits. Prerequisite: IS 101 or consent of instructor.

Covers concepts and capabilities of microcomputer database systems management. Teaches the command and programming language of a typical system, together with specific experience in creating and using databases in typical applications. Includes both lecture and lab assignments. When offered in variable credit format, content will be divided as follows: A) Concepts and capabilities of database systems management with exploration of initial levels of database software; B) User level access to many of the standard capabilities and menus of the software; C) More difficult capabilities with programming of the database software.

COT 267B: ADVANCED DATABASE CONCEPTS

3 credits. Prerequisite: COT 266 or consent of instructor.

Covers advanced concepts and capabilities of a microcomputer database management system including advanced query and form design, interfacing with the Internet, hyperlinks, templates, creation of macros, graphical user interfaces and menus. Also covers application programming, compiling and testing functions, subprocedures, and event procedures using a built-in programming language.

COT 290B: INTERNSHIP IN COMPUTER AND OFFICE TECHNOLOGY

3-6 credits. Prerequisite: written permission of a full-time instructor.

Requires work and study at participating, approved business or organizations. Department must review student's activities and development on the job.

COT 299B: INDEPENDENT STUDY IN COMPUTER AND OFFICE TECHNOLOGY

1-6 credits. Prerequisite: permission of instructor.

Applies knowledge and skills to real, on-the-job situations in a program designed by a company official and a faculty advisor to maximize learning experiences. Available to students who have completed most core and major requirements and have a 2.5 grade point average. Contact instructor for application, screening and required skills evaluation. Up to six semester hour credits may be earned on the basis of 75 hours of internship for one credit. May be repeated for up to six credits.

COMPUTER APPLICATIONS

DEPARTMENT CODE: CA

Applied science and technology customized applications courses are designed to fit specific needs in business and industry. Specific customized classes may be found in the latest WNCC course schedule.

COMPUTER INFORMATION TECHNOLOGY

DEPARTMENT CODE: CIT

CIT 110B: A+ HARDWARE

4 credits. Prerequisite: none.

Introduces the fundamentals of computer system repair. Students learn the hardware and software elements that define an operating computing system. Troubleshooting methods and the use of diagnostic tools are taught with reinforcement provided using hands-on exercises. Successful completion of this course will place a student in good standing to take the nationally recognized A+ certification exam created by the computing industry.

CIT 111B: A+ SOFTWARE

4 credits. Prerequisite: none

Introduces the fundamentals of computer networking. Students are instructed in hardware and software skills necessary to seek employment in networking computer systems. Topics include the OSI model, network topologies, networking standards, networking devices and networking media. Successful completion of this course provides the background to take the nationally recognized N+ certification exam created by the computing industry.

CIT 112B: NETWORK +

4 credits. Prerequisite: none.

Introduces the fundamentals of computer networking. Students are instructed in hardware and software skills necessary to seek employment in networking computer systems. Topics include the OSI model, network topologies, networking standards, networking devices and networking media. Successful completion of this course provides the background to take the nationally recognized N+ certification exam created by the computing industry.

CIT 129 : INTRODUCTION TO PROGRAMMING

3 credits. Prerequisite: COT 105 and IS 201 or approval of instructor.

Offers a language-independent, introductory course on computer program design and development. Emphasizes identification and solution of business problems through various design tools. Formerly IS 115.

CIT 130: BEGINNING JAVA

3 credits. Prerequisite: CIT 129 or previous programming experience with instructor approval.

Teaches Java, a general-purpose, object-oriented programming language best known for, but not limited to, creating applets to run on the internet. Course will include applet creation.

CIT 132: BEGINNING VISUAL BASIC

3 credits. Prerequisite: IS 101 or approval of instructor.

Offers in-depth study of the BASIC computer language, including program writing and debugging. Includes use of computer equipment to supplement classroom instruction.

CIT 133B: BEGINNING C++

3 credits. Prerequisite: IS 201 or consent of instructor.

Develops an understanding of and proficiency in the "C" programming language as a tool for programming actual applications. Uses computer equipment to supplement classroom instruction.

COURSES

Computer Information Technology

CIT 150B: INTRODUCTION TO THE INTERNET

1-3 credits. Prerequisite: none.

Offers a basic introduction to the Internet and World Wide Web. Covers evaluating e-mail alternatives, introduction to Netscape Navigator and Microsoft Internet Explorer, using search engines, finding and using information on the web, and obtaining software tools.

CIT 151: BEGINNING WEB DEVELOPMENT

1-3 credits. Prerequisite: IS 101 or approval of instructor.

Covers the basics of designing and publishing a web page. Students will use an authoring program to develop professional looking web sites for the Internet. Topics will cover viewing coding, inserting multi-media, creating lists, tables, framed and e-mail links along with additional skills involved with page design. Basic knowledge of the computer, Internet, Windows, and the web is expected.

CIT 152B: WEB SCRIPT LANGUAGE PROGRAMMING

3 credits. Prerequisite: CIT 151.

Concentrates on client-side scripting with an emphasis on JavaScript and VBScript. Client-side technologies are used to validate form data, as well as to provide ways of interacting with visitors. Class builds upon the information presented in CIT 151 and will also provide an introduction to server-side scripting.

CIT 157B: GRAPHICS FOR THE WEB

3 credits. Prerequisite: IS 101 or instructor's permission.

Introduces students to the specific requirements of web graphics, including, but not limited to, file properties and formats, file management, cross-platform issues, and accessibility issues. Students will participate in hands-on creation and modification of graphics as well as integration of graphics into web pages. All lessons include relevant information regarding accessibility and project management.

CIT 161B: ESSENTIALS OF INFORMATION SECURITY

3 credits. Prerequisite: none.

Introduces students to fundamental concepts of computer and network security. Students will gain a basic understanding of best practices, standards and laws governing information security. They will also gain practical knowledge and skills using monitoring and detection tools in a hands-on lab environment.

CIT 171B: INTRODUCTION TO THE UNIX OPERATING SYSTEM

3 credits. Prerequisite: none.

Teaches the fundamentals of UNIX and how to use the UNIX operating system and introduces the Common Desktop Environment (CDE). Class is for new users of the UNIX environment and CDE. Students will learn fundamental command-line features of the UNIX environment including file system navigation, file permissions, the vi text editor, command shells and basic network use.

CIT 173B: LINUX INSTALLATION AND CONFIGURATION

3 credits. Prerequisite: none.

Prepares the student for the vendor neutral Sair/GNU Linux Level I, installation and configuration exam (3x0-101). First level concentrates on the areas of expertise that must be mastered to become a Linux certified administrator.

CIT 180B: DATABASE CONCEPTS AND SQL

3 credits. Prerequisite: IS 115 or equivalent programming experience or instructor's permission.

Teaches basic principles of data modeling and relational database design. Class is targeted for people with little or no SQL knowledge. Provides a comprehensive overview of query writing, focusing on practical techniques for the IT professional new to relational databases. Course accents hands-on learning in a Structured Query Language (SQL) and SQL procedures.

CIT 198B: SPECIAL TOPICS IN COMPUTER INFORMATION TECHNOLOGY

1-5 credits. Prerequisite: none.

Applies to assorted short courses and workshops covering a variety of subjects.

CIT 201B: WORD CERTIFICATION PREPARATION

1-3 credits. Prerequisite: IS 101 or equivalent experience.

Offers comprehensive coverage of basic and advanced features of Microsoft Word including, but not limited to, the skills on the Microsoft Office User Specialist (MOUS) Word exams.

CIT 202B: EXCEL CERTIFICATION PREPARATION

1-3 credits. Prerequisite: IS 101 or equivalent experience.

Teaches comprehensive coverage of basic and advanced features of Excel including, but not limited to, the skills on the Microsoft Office User Specialist (MOUS) Excel exams.

CIT 203B: ACCESS CERTIFICATION PREPARATION

1-3 credits. Prerequisite: IS 101 or equivalent experience.

Teaches the basic and advanced features of Microsoft Access needed to create databases for use by individuals or small groups. Course serves as preparation for the Microsoft Office User Specialist (MOUS) Access exam or Expert user.

CIT 204B: POWERPOINT CERTIFICATION PREPARATION

1-3 credits. Prerequisite: IS 101 or equivalent experience.

Moves students from introductory concepts, such as creating, editing and formatting presentations to advanced topics including animating content, incorporating multimedia and deploying presentations as web pages. Microsoft-approved study guide for the Microsoft Office User Specialist certification program for PowerPoint 2002.

CIT 205B: MS PROJECT CERTIFICATION PREPARATION

1-3 credits. Prerequisite: IS 101 or equivalent experience, and proficiency in Windows and experience with project management techniques such as PERT and CPM.

Covers features of Microsoft Project used to create and track a predefined project plan. Serves as preparation for Microsoft Office User Specialist (MOUS) exams for MS Project.

CIT 206B: MS OUTLOOK CERTIFICATION PREPARATION

1-3 credits. Prerequisite: IS 101 or equivalent experience.

Recognizes and applies basic and advanced features of Outlook including, but not limited to, the skills on the Microsoft Office User Specialist (MOUS) Excel exams. Each component of the Outlook package will be identified and explored as a integrated system.

COURSES

Computer Information Technology

CIT 211B: MCSE I WORKSTATION

3-5 credits. Prerequisite: consent of instructor.

Covers Core A Operating systems. Prepares the student to prove expertise with desktop, server, and networking components. Core A consists of the required areas of study mandated by Microsoft.

CIT 212B: MCSE II SERVER

3-5 credits. Prerequisite: CIT 211B or consent of instructor.

Covers Core B Advanced Operating systems. Prepares the student to prove expertise with desktop, server, and networking components. Course consists of the required areas of study mandated by Microsoft to complete the MCSE core requirements.

CIT 213B: MCSE III NET ADMINISTRATION

3-5 credits. Prerequisite: CIT 212B or consent of instructor.

Prepares the student in Core C course to prove expertise with desktop, server, and networking components. Consists of the required areas of study mandated by Microsoft to complete the MCSE core requirements.

CIT 214B: MCSE IV DIRECTORY SERVICES ADMINISTRATION

3-5 credits. Prerequisite: CIT 212B or consent of instructor.

Prepares the student in Core D course to prove expertise with desktop, server and networks. Course consists of the required areas of study mandated by Microsoft to complete the MCSE core requirements.

CIT 215B: MCSE ELECTIVE

3-5 credits. Prerequisite: CIT 212B or consent of instructor. Repeatable up to 20 credits.

Offers MCSE electives. Prepares students to show their expertise and knowledge of Microsoft products. The Microsoft MCSE electives course covers the required area of study required by Microsoft for MCSE certification.

CIT 220B: E-COMMERCE ON THE WEB

3 credits. Prerequisite: none. Recommended preparation: CIT 151, IS 101.

Introduces electronic commerce and the opportunities presented by the e-commerce revolution. Topics include e-commerce levels and options, real costs vs. perceived costs of an electronic storefront, security issues, customer service concerns and support options. Students will build an online store with shopping cart features and implement a secure electronic payment system.

CIT 232: ADVANCED VISUAL BASIC

3 credits. Prerequisite: IS 101 or approval of instructor.

Provides in-depth study of advanced BASIC programming language concepts as used for writing business-oriented programs, as well as use of computers to enter, debug and execute programs.

CIT 233B: ADVANCED C++

3 credits. Prerequisite: CIT 133B.

Gives students an in-depth review of basic "C" concept and explores lower-level code as well as high-level graphics and file handling. The students will then take the fundamentals learned in previous classes and enlarge upon them utilizing the concepts and the "C" language.

CIT 244B: DESIGNING CISCO NETWORKS

4 credits. Prerequisite: consent of instructor.

Focuses on the skills needed to design world-class small to medium-sized networks (fewer than 500 nodes). Follows all the steps to design and internet work that meet a customer's needs for functionality, performance, scalability and security. Intended to prepare student to become a Cisco Certified Design Associate.

CIT 251: ADVANCED WEB DEVELOPMENT

3 credits. Prerequisite: CIT 151/152B or consent of instructor.

Covers advanced concepts and capabilities of web design. Teaches students to develop advanced web sites that incorporate many tools. Topics include recreating and revising a multimedia web; basic HTML coding; using web graphics, style sheets (known as CSSO), multimedia and photo editors and java script; integrating database and other office components; and publishing to multiple servers.

CIT 252B: WEB DATABASE DEVELOPMENT

3 credits. Prerequisite: CIT 180B or consent of instructor.

Builds on the skills acquired in CIT 180B. Variety of database and interactive web development options will be introduced including Active Server Pages, Java Server pages, and PHP.

CIT 253B: ADVANCED WEB DATABASE DEVELOPMENT

3 credits. Prerequisite: CIT 252B equivalent programming experience, and/or consent of instructor.

Teaches about and uses salient features of advanced script development, debugging, advanced database access, retrieval, reporting and security.

CIT 255B: WEB SERVER ADMINISTRATION I

3 credits. Prerequisite: CIT 260 or instructor's permission.

Prepares students to deal with web server administration tasks including security, performance, access and connectivity. Students will learn about the key issues involved in web server administration and effective strategies for dealing with those issues. Activities include basic installations of a network operating system, firewalls, OpenSSL, OpenSSH, Network Management, MySQL, and Apache.

CIT 256: WEB SERVER ADMINISTRATION II

3 credits. Prerequisite: CIT 255B or instructor's permission.

Continues course focus on advanced source installations and configuration of web software applications, particularly the security aspects of web server administration.

CIT 260: SYSTEMS ANALYSIS & DESIGN I

3 credits. Prerequisite: students must have successfully completed one semester of programming language.

Explains the theory of data processing systems and their advanced elements, including system flow charts, I/O specifications, program coding, systems testing and other facets of a system analyst's responsibilities.

CIT 264B: OPERATING SYSTEM SECURITY

3 credits. Prerequisite: none.

Discusses various aspects of security applied to an organizational model. Topics will include physical security, social engineering, organizational policy and procedures, and disaster recovery.

COURSES

Computer Information Technology • Computer Science • Construction

CIT 265B: INFRASTRUCTURE SECURITY

3 credits. Prerequisite: none.

Teaches the student the proper way to design and build secure computer network infrastructures. Topics will include network devices and their roles in the network, media and storage devices, security zones and topologies of the network and the use of firewalls.

CIT 266B: OPERATIONAL/ORGANIZATIONAL SECURITY

3 credits. Prerequisite: none.

Explores the concepts and practices associated with management functions of technology security. The student will understand their role as it relates to the other manpower components. Training of operational staff, policies and procedures of manpower at all levels of the organization and common procedures associated with disaster avoidance and recovery.

CIT 267B: COMMUNICATION SECURITY

3 credits. Prerequisite: none.

Explores the various methods for securing information in transit. Students will learn methods and protocols for remote access to networks, virtual private networks and their security aspects and the use of IPSec (internet protocol security).

CIT 268B: CRYPTOGRAPHY

3 credits. Prerequisite: none.

Introduces the student to different types of cryptography. Discussions will include current cryptographic algorithms, cryptography applied to digital security, certificate authorities and key management.

CIT 290B: INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY

1-6 credits. Prerequisite: available to students who have completed most core and emphasis requirements and have a 2.5 GPA. May be repeated for up to six credits.

Offers students the opportunity to work and study in participating and approved business organizations. Department approval required before acceptance into course. Department review of student's activities and development on the job required.

CIT 295B: SPECIALTY RELATED CAPSTONE PROJECT

3 credits. Prerequisite: completion of a minimum of 21 emphasis required credits and 6 specialty required credits and/or instructor's permission.

Showcases student's skills. Allows the student to develop a project suitable for presentation during an employment interview. It is anticipated that class will be taught in a seminar format with the project requirements determined by the instructor and the student. The final project may be evaluated by a committee composed of instructors, fellow students and outside professionals in the field.

CIT 299B: INDEPENDENT STUDY IN COMPUTER INFORMATION TECHNOLOGY

1-6 credits. Prerequisite: available to students who have completed most core and emphasis requirements and have a 2.5 or better GPA. Written permission of a full-time instructor is required.

Offers students special projects involving subjects or skills related to the CIT curriculum. This project will be designed with a faculty advisor. Class will have variable credit of one to six depending on the course content and number of contact hours required. Course may be repeated. It may be substituted for another course with special permission of the division.

COMPUTER SCIENCE

DEPARTMENT CODE: CS

CS 103: COMPUTER SCIENCE FOR ENGINEERS & SCIENTISTS

2 credits. Prerequisite: MATH 128 or consent of instructor.

Introduces programming in Matlab and applications software using individual computers. Considers elementary numerical methods and symbolic methods to solve problems in engineering and science.

CS 201: COMPUTER SCIENCE I

3 credits. Prerequisite: MATH 128 or higher or satisfactory score on a placement exam.

Introduces modern problem solving and programming methods. Emphasis is placed on algorithm development. Introduces procedural and data abstraction, emphasizing design, testing, and documentation.

CS 202: COMPUTER SCIENCE II

3 credits. Prerequisite: CS 201.

Emphasizes problem solving and program development techniques. Typical numerical and non-numerical problems are examined. Design, implementation, and abstraction principles of elementary data structures are studied.

CS 236: INTRODUCTION TO COMPUTER ENGINEERING

4 credits. Prerequisite: CS 201.

Studies organization and operation of a selected microprocessor. Considers number systems, data formats, programmers model, assembly language, debugging techniques, interrupts, and Boolean logic. (Same as EE 236).

CONSTRUCTION

DEPARTMENT CODE: CONS

CONS 102B: BLUEPRINT READING & SPECIFICATIONS

3 credits. Prerequisite: none.

Equips students with technical and practical interpretation of blueprints. Assignments are made in relation to complete sets of working drawings. Students study construction relationships between architectural, structural, electrical and mechanical drawings, bidding along with inspection procedure technique.

COURSES

Construction

CONS 108B: CONSTRUCTION PRACTICES

3 credits. Prerequisite: none.

Studies the various types of buildings and structures utilized in industrial, commercial and residential construction. Examines peculiarities and potential problem areas for each type of construction. Construction sequencing, inspection sequencing and required testing will be outlined as well as observable "red flags" that can be indicative of potential problems.

CONS 112B: CONSTRUCTION LAW

1 credit. Prerequisite: none.

Studies the legal implications of verbal and written communications among building officials, contractors, sub-contractors and clients. Investigates various construction contracts, informational requirements, proper record keeping, notification, bonds, liens, lien release instruments and resolution of contract disputes.

CONS 113B: CONSTRUCTION SITE SAFETY

1 credit. Prerequisite: none.

Includes ten hours of authorized training addressing the OSHA construction standards. Additional topics include the identification of asbestos, lead and radon in potential construction projects. Upon completion, students will be issued a course completion wallet card by the U.S. Department of Labor's Occupational Safety and Health Administration.

CONS 114B: SOILS, SITEWORK, CONCRETE AND TESTING

3 credits. Prerequisite: none.

Covers soil classifications as related to bearing and compaction. The student also learns to interpret the elements of a site plan including contours, existing grades, finish grades, finish elevations, benchmarks, and on-site utilities. Also includes instruction in reading and verifying grade and horizontal control stakes. Course will cover underground utilities, foundations, flatwork, drains, swales and all associated testing.

CONS 115B: CONSTRUCTION ESTIMATING

3 credits. Prerequisite: none.

Presents basic criteria and procedure for estimating labor and material in residential and commercial applications.

CONS 116B: PLUMBING AND HVAC SYSTEMS

2 credits. Prerequisite: none.

Studies the theory and application of various plumbing and HVAC systems. Plumbing components will include fixtures, pumps, pressure-reducing valves, recirculation systems, sizing, piping and venting. HVAC components will include gas heating, oil heating, heat pumps, boilers, air conditioning and solar.

CONS 117B: INTRODUCTION TO BUILDING CODES

3 credits. Prerequisite: none.

Introduces the UBC, UMC, UPC and NEC as construction industry standards.

CONS 118B: BID DOCUMENTS, CONTRACTS AND NEGOTIATION

3 credits. Prerequisite: none.

Explores various bid documents including architectural and engineering blueprints, shop drawings and proposals. Common construction contracts and their implications will be explained as well as accepted procedures for resolution of contract disputes.

CONS 119B: CONSTRUCTION SURVEYING

2 credits. Prerequisite: CONS 108B or consent of instructor.

Presents care and use of surveying equipment. Profile elevation and closed traverse projects will provide hands-on experience. Construction staking will be explained in detail.

CONS 121B: CONSTRUCTION ELECTRICITY

3 credits. Prerequisite: none.

Emphasizes alternating current in this basic course in electrical theory and application.

CONS 204B: CONSTRUCTION PLANNING AND METHODS

3 credits. Prerequisite: none.

Explores project implementation including logistics, scheduling, delegation of responsibility and quality control.

CONS 216B: STRUCTURAL LAYOUT AND ASSEMBLY

2 credits. Prerequisite: CONS 113B.

Studies correct layout procedures for flooring systems, walls and roof systems as well as the integration of all structural components utilized in these systems (wood frame emphasis). A portion of the course is practical and the student will lay out a floor system, roof system and construct a bearing wall to industry standards.

CONS 220B: ELECTRICAL DISTRIBUTION SYSTEM

2 credits. Prerequisite: CONS 113B or consent of instructor.

Explains electrical theory, distribution systems and wiring techniques utilized in the construction industry. Topics will include high voltage distribution, grounding, GFCI's, transformers, load centers and circuits. Actual wiring techniques will be practiced in conjunction with electrical troubleshooting.

CONS 221B: REGULATORY AGENCIES

1 credit. Prerequisite: none.

Explains the responsibilities of various regulatory agencies that impact the construction process. Topics include homeowner's associations, EPA, Health Department, Building Departments, OSHA and the Fire Department.

CONS 222B: COMPUTER APPLICATIONS

3 credits. Prerequisite: none.

Investigates current computer software applications that assist in construction management. Students will receive hands-on computer instruction.

CONS 223B: ADVANCED SITEWORK ESTIMATING

3 credits. Prerequisite: CONS 102B, CONS 115B and MATH 110B or higher or consent of instructor.

Presents sitework estimating in the context of commercial and public works projects. Communication with design professionals is emphasized including shop drawings, submittals, alternates and approvals. Value engineering is explored as related to work force and materials.

COURSES

Construction • Core Humanities • Counseling & Guidance Personnel Services

CONS 260B: CERTIFIED INSPECTORS OF STRUCTURES - RESIDENTIAL

3 credits. Prerequisite: none.

Provides prescribed course of instruction for Certified Inspector of Structures as per the state of Nevada.

CONS 261B: UNDER-FLOOR INSPECTIONS FOR CERTIFIED INSPECTORS OF STRUCTURES

1 credit. Prerequisite: CONS 260B.

Provides instruction on all of the under-floor components that the Certified Inspector of Structures must inspect to complete a certified inspection per 645D of the Nevada Administrative Code. Students will complete two supervised under-floor inspections and prepare extensive narrative inspection reports for evaluation. They will be required to sign "hold harmless" waivers when conducting inspections off state property. Students are strongly encouraged to have medical insurance that provides coverage in the event of a job-site injury.

CONS 262B: ABOVE-FLOOR INSPECTIONS FOR CERTIFIED INSPECTORS OF STRUCTURES

2 credits. Prerequisite: CONS 260B.

Provides instruction on all of the above-floor components typical of residential construction. Seismic and structural hardware will be discussed as will load-bearing, load-transferring and non-load-bearing assemblies. Extensive mechanical and electrical systems analyses will be conducted. Students will prepare extensive narrative inspection reports for evaluation, and sign "hold harmless" waivers when conducting inspections off state property. Students are strongly encouraged to have medical insurance that provides coverage in the event of a job-site injury.

CONS 263B: SUPERVISED RESIDENTIAL INSPECTIONS FOR CERTIFIED INSPECTORS OF STRUCTURES

4 credits. Prerequisite: CONS 260B.

Provides instruction on conducting residential inspections as per 645D of the Nevada Administrative Code. Students will explore methodologies for conducting inspections and develop an inspection format that they will utilize while completing ten supervised inspections. Students must complete ten inspection reports to be evaluated by the instructor and sign "hold harmless" waivers when conducting inspections off state property. Students are strongly encouraged to have medical insurance that provides coverage in the event of a job site injury.

CONS 280B: PROJECT SUPERVISION

5 credits. Prerequisite: none.

Provides the basics for on-site execution of a construction project. Topics include skills and techniques recognized by industry as essential for the contemporary field superintendent.

CONS 281B: CONSTRUCTION MANAGEMENT AND ANALYSIS

4 credits. Prerequisite: CONS 280B or consent of instructor.

Covers the basics for managing a construction project. A comprehensive, competency-based program is provided that gives both veteran and new project managers a step-by-step approach to honing natural abilities, developing essential skills and generally improving their performance as leaders.

CONS 290B: INTERNSHIP IN CONSTRUCTION

3 credits. Prerequisite: none.

Studies project management techniques on-site under the supervision of a project manager or superintendent.

CONS 295B: WORK EXPERIENCE I

1-6 credits. Prerequisite: consent of instructor.

Studies project management techniques on-site under the supervision of a project manager or superintendent.

CORE HUMANITIES

DEPARTMENT CODE: CH

CH 201: ANCIENT AND MEDIEVAL CULTURES

3 credits. Prerequisite: ENG 102.

Provides an introduction to Greek, Roman and Judeo-Christian culture through the Middle Ages.

CH 202: THE MODERN WORLD

3 credits. Prerequisite: CH 201.

Explores the intellectual, literary and political history of Europe from the Renaissance to the present.

CH 203: AMERICAN EXPERIENCES & CONSTITUTIONAL CHANGE

3 credits. Prerequisite: CH 201.

Emphasizes the origins of the U.S. and Nevada constitutions and issues such as equality and civil rights, individualism and civil liberties, federalism, environmentalism, urbanization and industrialization, as well as religious and cultural diversity.

COUNSELING & GUIDANCE PERSONNEL SERVICES

DEPARTMENT CODE: CAPS

CAPS 122: HOW TO SUCCEED IN COLLEGE

1-3 credits. Prerequisite: none.

Helps students to develop effective and efficient study skills. Students will learn how to learn.

CAPS 123: CAREER DEVELOPMENT

2-3 credits. Prerequisite: none.

Assists students in choosing a major and a career.

CAPS 125B: JOB SEARCH TECHNIQUES

1-3 credits. Prerequisite: none.

Acquaints people with techniques and strategies useful in job seeking. Students will be given an opportunity to identify their skills and interests, research a career area, write a resume and practice interviewing.

CAPS 126B: PARENTING SKILLS

1-3 credits. Prerequisite: none.

Teaches, in a structured way, techniques which help persons to be better parents.

COURSES

Counseling & Guidance Personnel Services • Counseling & Personal Development Craft Training • Crafts • Criminal Justice

CAPS 141B: PARENTING SKILLS FOR PARENTS OF TEENS

2 credits. Prerequisite: none.

Offers a course for parents and others who want to learn more effective ways to communicate with teenagers. Skills are taught which lead to mutual respect, increased cooperation and a more responsible, self-reliant attitude.

COUNSELING & PERSONAL DEVELOPMENT

DEPARTMENT CODE: CPD

CPD 102B: CAREER EXPLORATION

1 credit. Prerequisite: none.

Acquaints students in choosing a career suitable to them. Involves a systematic approach to making a career choice, covering self-assessment, decision making techniques, and current occupational information. Appropriate for those undecided as to a career direction or who wish more career information prior to focusing their academic studies.

CPD 116: SUBSTANCE ABUSE - FUNDAMENTAL FACTS AND INSIGHTS

3 credits. Prerequisite: none.

Covers topics related to substance abuse in our society: identification of substance, reasons for abuse of alcohol and of drugs, signs and symptoms of substance abuse, and approaches and techniques recognized as effective in substance abuse counseling.

CPD 117: INTRODUCTION TO COUNSELING

3 credits. Prerequisite: none. PSY 101 is recommended.

Presents an overview of basic communication and counseling skills and the foundations of the helping relationship. Includes experimental situations such as role playing and group exercises.

CPD 129B: ASSERTIVENESS TECHNIQUES I

1-3 credits. Prerequisite: none.

Teaches an alternative to being too passive or too aggressive. Students learn skills to become more assertive and communicate effectively. These skills can be used on the job, in relationships, or in any situation with people.

CPD 130B: STRESS MANAGEMENT TECHNIQUES I

1 credit. Prerequisite: none.

Surveys personal lifestyles to identify areas of stress and present ways of coping. Sample alternative methods for stress reduction and develop an individual plan for relief.

CPD 131B: ANGER MANAGEMENT TECHNIQUES

.5-1 credit. Prerequisite: none.

Acquaints students with techniques and strategies to manage anger in constructive and non-threatening ways. Includes skills in communication and dealing with people in a variety of situations.

CRAFT TRAINING

DEPARTMENT CODE: CT

CT 101B: CRAFT TRAINING BASICS

3 credits. Prerequisite: none.

Introduces the topics of blueprint reading, construction, industry math, hand and power tool usage.

CRAFTS

DEPARTMENT CODE: CR

CR 110B: BEGINNING CALLIGRAPHY

1-3 credits. Prerequisite: none.

Helps students develop two types of writing techniques - Italic and Calligraphic - one for special occasions and one for rapid writing.

CR 124B: FURNITURE REFINISHING

2 credits. Prerequisite: none.

Offers techniques for restoring used and antique furniture, removing finishes, applying furniture, and applying finishing materials.

CR 132/171B: BEGINNING & INTERMEDIATE INTERIOR DECORATING

3 credits each. Prerequisite: none.

Investigates color choices, painting techniques, furniture arrangement, wallpaper selection and application, use of furniture styles; drapery and carpet selection and care, and home lighting.

CR 136B/137B: CREATIVE CRAFTS I & II

3 credits each. Prerequisite: none.

Introduces students to crafts, stressing design principles and expressive qualities utilizing a variety of craft materials.

CR 141B/143B: BEGINNING & ADVANCED TOLE PAINTING

3 credits each. Prerequisite: none.

Introduces students to this pleasant folk art form. Tole painting has traditionally been used to decorate useful objects and love gifts both inside and outside the home. Students will learn about brushes and paints as well as the strokes used in this style of painting.

CR 299B: SPECIAL TOPICS IN CRAFTS

1-6 credits each. Prerequisite: none.

Applies to assorted short courses and workshops covering a variety of subjects.

CRIMINAL JUSTICE

DEPARTMENT CODE: CRJ

CRJ 101: INTRODUCTION TO CRIMINAL JUSTICE I

3 credits. Prerequisite: none.

Surveys the history, philosophy and functions of criminal justice system, law enforcement, criminal law and constitutional rights as they affect system functioning.

CRJ 102: INTRODUCTION TO CRIMINAL JUSTICE II

3 credits. Prerequisite: none.

Surveys the adjudicatory process, adult and juvenile corrections functions within the criminal justice system.

COURSES

Criminal Justice

CRJ 103: COMMUNICATION WITHIN THE CRIMINAL JUSTICE FIELD

3 credits. Prerequisite: none. CRJ 101 is recommended.

Prepares the student to be able to communicate within the criminal justice field by introducing him/her to the five basic communication skills: report writing, non-verbal communication, basic public speaking, interviewing and interrogation skills, and courtroom testimony.

CRJ 106: INTRODUCTION TO CORRECTIONS

3 credits. Prerequisite: none. CRJ 101 is recommended.

Studies the history and development of correctional agencies, particularly prisons. Examines ideas influencing contemporary correctional institutions. Explores the relationship of the Department of Corrections to other criminal justice system components.

CRJ 109B: SELF DEFENSE

1-3 credits. Prerequisite: none.

Provides a course designed with the civilian in mind. Will allow all who complete it and follow its techniques to feel safe in most environments.

CRJ 110B: WHITEWATER RAFTING SAFETY

2 credits. Prerequisite: none.

Introduces students to whitewater rafting and the perils that can befall a whitewater rafter. Emphasis will be placed on individual safety and the rescue of people in danger. Also emphasized will be the unwrapping of rafts (rafts on racks, known as a "rap"), basic strokes by both the paddlers and the guide, and river hydropics. This course is for all students, but will be of particular interest to CRJ majors who may be called upon to assist in a river rescue. There will be a weekend camping excursion on the South Fork of the American River. Wetsuit must be rented, plus appropriate gear.

CRJ 120: COMMUNITY RELATIONS

3 credits. Prerequisite: none. CRJ 101 is recommended.

Analyzes the reasons and techniques for developing communication and understanding between the criminal justice system and various segments of the community.

CRJ 140: ELEMENTS OF SUPERVISION

3 credits. Prerequisite: CRJ 101.

Addresses current trends in contemporary supervision within the criminal justice field. Covers the rights, obligations, and duties of line supervisors. Assesses the first line supervisor's role within the law enforcement agency.

CRJ 155: JUVENILE JUSTICE SYSTEM

3 credits. Prerequisite: none. CRJ 101 is recommended.

Introduces the field of police work with juveniles. Focuses on juvenile crime problems and their causes, detention and processing of the juvenile offender, practices of the juvenile court, and case disposition.

CRJ 164: PRINCIPLES OF INVESTIGATION

3 credits. Prerequisite: CRJ 101.

Examines the fundamentals of investigation: crime scene search and recording of information, collection and presentation of physical evidence, sources of information, scientific aids, case preparation, and interviews and interrogation procedures.

CRJ 198B: SPECIAL TOPICS IN CRIMINAL JUSTICE

1-6 credits. Prerequisite: none.

Applies to assorted short courses and workshops covering a variety of subjects.

CRJ 211: POLICE IN AMERICA

3 credits. Prerequisite: none. CRJ 101 is recommended.

Explores the historical development, roles, socialization, and problems of police work.

CRJ 214: PRINCIPLES OF POLICE PATROL

3 credits. Prerequisite: none. CRJ 101 is recommended.

Identifies community problems which require prevention, suppression or control using the basic methods of police patrol. A history of police patrol and survey of modern patrol tactics will be surveyed.

CRJ 215: PROBATION AND PAROLE I

3 credits. Prerequisite: none. CRJ 101 and CRJ 106 are recommended.

Surveys the probation and parole system of the U.S. through its evolution to the present. Shows different systems within the U.S. and focuses on executive clemency, parole, rights of prisoners, probationers and parolees, and strategies for treatment.

CRJ 220: CRIMINAL PROCEDURES

3 credits. Prerequisite: CRJ 101.

Examines the origin, development, and rationale of the structure and procedures of the American criminal justice system. Emphasizes arrest, search and seizure, confessions, and other related legal issues.

CRJ 222: CRIMINAL LAW AND PROCEDURE

3 credits. Prerequisite: CRJ 101 or consent of instructor.

Provides an integrated overview of the elements of substantive criminal law and the fundamental concepts of due process and fairness underlying American criminal procedures.

CRJ 225: CRIMINAL EVIDENCE

3 credits. Prerequisite: none. CRJ 101 or LAW 101 is recommended.

Examines the origin, development, philosophy, and constitutional basis of evidence. Covers constitutional and procedural considerations which affect arrest, search, and seizure.

CRJ 226: PREVENTION & CONTROL OF DELINQUENCY

3 credits. Prerequisite: CRJ 155. CRJ 101 is recommended.

Surveys and evaluates police programs designed to prevent juvenile delinquency. Covers techniques of enforcement related to control of delinquency, investigation procedures in individual delinquency cases, and methods of referral to related agencies.

COURSES

Criminal Justice • Culinary Arts • Dance

CRJ 230: CRIMINAL LAW

3 credits. Prerequisite: CRJ 101 or LAW 101. CRJ 220 is also recommended. Examines substantive criminal law with particular attention to crime, intent, attempts, search and seizure, and the laws of arrest. Relates criminal law to the working police officer. Covers rights and duties of citizen and officer under criminal law.

CRJ 260: 911 DISPATCH EMERGENCY TELECOMMUNICATOR ACADEMY

12 credits. Prerequisite: none.

Focuses on the skills needed to become a dispatcher with law enforcement agencies, fire centers, trucking firms, taxicab companies, etc. During the ten-week course, students will be required to spend 44 hours job shadowing dispatchers, fire fighters and law enforcement officers. They will attend law classes, build their communication and typing skills, and participate in practical scenarios.

CRJ 265: INTRODUCTION TO PHYSICAL EVIDENCE

3 credits. Prerequisite: none. CRJ 101 and CRJ 164 are recommended. Surveys the forensic sciences to show their role in the use of physical evidence in matters of criminal and/or civil law. Focuses on the value of modern scientific investigations.

CRJ 266B: WESTERN NEVADA STATE PEACE OFFICER ACADEMY

27 credits. Prerequisite: none.

Offers an academy which meets all Nevada requirements and is POST certified. Cadets who successfully complete the 30-week program will enhance their employability in attaining positions that require Category I certification (police, sheriffs, etc.); Category II certification (bailiffs, fire investigators, juvenile probation, etc.); and Category III certification (corrections, jailers, etc.). The 800-hour program includes classroom, practical application and physical training. The cadets will attend numerous law related classes, participate in defensive tactics, emergency vehicle operations course, DUI investigations, accident investigations and fingerprinting. In addition, cadets will learn basic searching techniques, handcuffing methods, baton and firearms.

CRJ 267: MEDICOLEGAL DEATH INVESTIGATION

3 credits. Prerequisite: CRJ 164 or CRJ 265 or consent of instructor.

Explores the intricacies of investigating suspected homicidal, suicidal or accidental death, sudden unexpected natural deaths, deaths of concern of public health, and other matters coming under the jurisdiction of the coroner. Students may be required to witness and/or participate in a forensic autopsy.

CRJ 270: INTRODUCTION TO CRIMINOLOGY

3 credits. Prerequisite: none. CRJ 101 is recommended.

Examines how society interacts with crime and delinquency through the use of the criminal justice system. Studies effective interaction and communication between the general public and members of the criminal justice system. Emphasizes the understanding of criminal behavior from a sociological and psychological perspective.

CRJ 295B: WORK EXPERIENCE - CORRECTIONS

1-6 credits. Prerequisite: CRJ 101 or consent of instructor.

Provides the student with on-the-job, supervised and educationally directed work experience.

CRJ 296B: WORK EXPERIENCE - JUVENILE JUSTICE

1-6 credits. Prerequisite: CRJ 101 or consent of instructor.

Provides the student with on-the-job, supervised and educationally directed work experience.

CRJ 297B: WORK EXPERIENCE - LAW ENFORCEMENT

1-6 credits. Prerequisite: none. CRJ 101 or consent of instructor.

Provides the student with on-the-job, supervised and educationally directed work experience.

CRJ 298B: WORK EXPERIENCE - PROBATION & PAROLE

1-6 credits. Prerequisite: CRJ 101 or consent of instructor.

Provides the student with on-the-job, supervised and educationally directed work experience.

CULINARY ARTS

(See Hotel, Restaurant & Casino Management)

DANCE

DEPARTMENT CODE: DAN

DAN 101: DANCE APPRECIATION

3 credits. Prerequisite: none.

Provides a non-technical course which offers an understanding and appreciation of the art of dance, with special focus on the artists and styles.

DAN 132: JAZZ DANCE BEGINNING

1 credit. May be repeated for up to 4 credits. Prerequisite: none.

Introduces beginning techniques of jazz dance.

DAN 135: BALLET (BEGINNING)

1 credit. May be repeated for up to 4 credits. Prerequisite: none.

Introduces beginning techniques of ballet.

DAN 139: MODERN DANCE

1 credit. May be repeated for up to 4 credits. Prerequisite: none.

Introduces beginning techniques of modern dance.

DAN 144: BEGINNING TAP DANCE

1 credit. May be repeated for up to 4 credits. Prerequisite: none.

Introduces beginning techniques of tap dance.

DAN 160B: HIP-HOP DANCE

1 credit. May be repeated for up to 4 credits. Prerequisite: none.

Teaches beginning techniques of hip-hop dance.

DAN 162B: LYRICAL DANCE

1 credit. May be repeated for up to 4 credits. Prerequisite: none.

Teaches intermediate techniques of lyrical dance.

COURSES

Dance • Developmental Skills Courses • Diesel Mechanics • Drafting

DAN 232: JAZZ DANCE (INTERMEDIATE)

1 credit. May be repeated for up to 4 credits. Prerequisite: DAN 132.
Emphasizes intermediate techniques of jazz dance.

DAN 244: TAP DANCE (INTERMEDIATE)

1 credit. May be repeated for up to 4 credits. Prerequisite: DAN 144 or consent of instructor.
Emphasizes intermediate techniques of tap dance.

DAN 260B: INTERMEDIATE HIP-HOP DANCE

1 credit. May be repeated for up to 4 credits. Prerequisite: DAN 160B.
Teaches intermediate techniques of hip-hop dance.

DEVELOPMENTAL SKILLS COURSES

The college offers a number of programs which help students learn and improve basic educational skills. Developmental courses in English and mathematics are listed under the English and mathematics headings of the course description section.

DIESEL MECHANICS

DEPARTMENT CODE: DM

DM 101B: DIESEL MECHANICS BASICS

1-6 credits. Prerequisite: none.
Introduces students to principles, design, construction and maintenance of the diesel motor. Activities include safety, use of manuals, selection and use of hand tools. General maintenance of a variety of systems in the diesel motor will be introduced.

DRAFTING

DEPARTMENT CODE: DFT

DFT 100: BASIC DRAFTING PRINCIPLES

3 credits. Prerequisite: none.
Introduces basic concepts of technical drawing. Covers perception theories, lettering, sketching techniques, use of drafting instruments, orthographic projection, basic dimensioning, and pictorial drawings. Designed as introductory course for DFT 131 and may be taken concurrently.

DFT 102: TECHNICAL DRAFTING I

3-6 credits. Prerequisite: DFT 100 and DFT 131 or equivalent experience.
Extends the knowledge gained in DFT 100 to manufacturing industry-type situations. Applies industry standards to advanced drafting problems using Computer Aided Drafting techniques.

DFT 103B: TECHNICAL DRAFTING II

3 credits. Prerequisite: DFT 102 or consent of instructor.
Introduces shop processes, detail working drawings, precision dimensioning, limits and tolerances, geometric tolerancing, threaded fasteners, shop notes, parts lists, assembly drawings, developments and intersections, and pictorial drawings.

DFT 105B: ARCHITECTURAL DRAFTING I

3 credits. Prerequisite: DFT 131 or equivalent experience.
Stresses blueprint reading skills. Introduces residential working drawing concepts leading to a full set of professional level working drawings.

DFT 106B: ARCHITECTURAL DRAFTING II

3 credits. Prerequisite: DFT 105B and DFT 131 or consent of instructor.
Stresses commercial applications of architectural drafting principles. Introduces building codes and design principles.

DFT 124B: BLUEPRINT READING FOR INDUSTRY

3 credits. Prerequisite: none.
Teaches those concepts required by machine shops or engineering, electrical and welding industries. Student will begin with simple prints and proceed to more advanced prints.

DFT 131: INTRODUCTION TO COMPUTER AIDED DRAFTING

3 credits. Prerequisite: none. Recommend DFT 100 and COT 204 or equivalent experience; or consent of instructor; may be taken concurrently.
Uses AutoCAD software to produce working drawings. Emphasizes constructing and editing two-dimensional geometry and placing drawing annotation.

DFT 133: INTERMEDIATE COMPUTER AIDED DRAFTING

3 credits. Prerequisite: DFT 131 or consent of instructor.
Provides instruction and training in advanced two-dimension AutoCAD commands. Covers the use of symbols and symbol libraries. Introduces three-dimensional drawing.

DFT 135B: ARCHITECTURAL COMPUTER AIDED DRAWING (CAD)

3 credits. Prerequisite: DFT 105B and DFT 131 or consent of instructor.
Emphasizes the adaptation of AutoCAD to the needs of the AEC professional. Develops skills in working with the architectural software that provides customizing capabilities for easy command entry and symbol selection. Utilizes AutoCAD's three-dimensional design capabilities.

DFT 150B: CIVIL DRAFTING I

3 credits. Prerequisite: DFT 131.
Teaches the use of AutoCAD Land Development Desktop (LDD) software for producing Civil Engineering working drawings. This course will focus on the development of "existing conditions" drawings from surveyed data that will be suitable for designing civil engineering improvements and will move into the development of a civil engineering plan layout. Students will demonstrate competencies by completing assigned projects to the satisfaction of the instructor.

DFT 198B: SPECIAL TOPICS IN DRAFTING

1-6 credits. Prerequisite: none.
Applies to assorted short courses and workshops covering a variety of subjects.

DFT 203B: TECHNICAL DRAFTING III

3 credits. Prerequisite: DFT 103B, MATH 96.
Teaches geometric tolerancing and dimensioning and descriptive geometry. Offers project design/layout within a team environment. Includes supervision/organization of team effort and tooling required for design problem.

COURSES

Drafting • Early Childhood Education

DFT 204B: TECHNICAL DRAFTING IV

3 credits. Prerequisite: DFT 203B, MATH 127.

Offers instruction in design techniques for manufacturing processes using CAD/CAM technology. Introduces conversion from CAD drafting database to NC machine code.

DFT 205B: ELECTRICAL & ELECTRONIC DRAFTING (CAD)

3 credits. Prerequisite: DFT 131 or consent of instructor.

Offers a course in basic layout and design of electrical and electronic schematic symbols and diagrams. Introduces computer aided drafting and applications appropriate to the skill and background of the student.

DFT 225B: INDEPENDENT STUDY

3-6 credits. Prerequisite: consent of instructor.

Offers a course for the student with a particular interest in a specific drafting area who wants to concentrate in that area. Offered on a contractual basis only.

DFT 230B: ADVANCED COMPUTER AIDED DRAFTING

3 credits. Prerequisite: DFT 133 or equivalent experience.

Provides training and instruction on the advanced features of drafting and solid modeling. Introduces the customizing potential within AutoCAD.

DFT 231: CAD DRAFTING PROJECT

3 credits. Prerequisite: DFT 133 or consent of instructor.

Offers instruction and practical experience of completing a major project in a desired study discipline.

DFT 233: SOLID MODELING AND PARAMETRIC DESIGN

3 credits. May be repeated up to 9 credits. Prerequisite: DFT 230B strongly recommended.

Provides training and instruction in using parametric solid modeling software to create solid model parts, assemblies and working drawings.

DFT 290B: INTERNSHIP IN DRAFTING

1-6 credits. Prerequisite: consent of instructor.

Offers on-the-job supervised and educationally directed work experience.

EARLY CHILDHOOD EDUCATION

DEPARTMENT CODE: ECE

ECE 121: PARENT/CAREGIVER RELATIONSHIPS

1 credit. Prerequisite: none.

Helps students acquire various communication skills to enhance parent/caregiver relationships. Covers interpersonal communication, listening skills and cooperative problem solving.

ECE 122: OBSERVATION SKILLS

1 credit. Prerequisite: none

Provides parents and teachers various formal and informal methods to enhance their observation and assessment skills. Discussion includes methods for use with developmentally delayed children.

ECE 129: ENVIRONMENTS FOR INFANT & TODDLER

1 credit. Prerequisite: none.

Helps students choose equipment and materials to create a physical environment which is responsive to the infant/toddler total development. Staff considerations and time schedules will be explored.

ECE 131: INTRODUCTION TO TEACHING THE YOUNG CHILD

3 credits. Prerequisite: none.

Introduces students to early childhood education. This course includes the history of child care, regulations, types of programs, legal issues, professional opportunities and current trends and issues. Emphasis is placed on the role of the preschool teacher in enhancing the social, emotional, physical and intellectual growth of preschool-aged children.

ECE 133: INTRODUCTION TO MANAGING CHILDREN'S BEHAVIOR

1 credit. Prerequisite: none.

Exposes students to the basics of handling classroom behaviors.

ECE 151: MATH IN THE PRESCHOOL CURRICULUM

1 credit. Prerequisite: none.

Studies activities and materials for developing mathematics readiness in the preschool.

ECE 152: SCIENCE IN THE PRESCHOOL CURRICULUM

1 credit. Prerequisite: none

Studies activities and materials for teaching science in the preschool.

ECE 153: LANGUAGE DEVELOPMENT IN THE PRESCHOOL

1 credit. Prerequisite: none

Studies development of language in preschool children. Emphasizes activities and materials for fostering development of receptive and expressive language skills in the preschool child.

ECE 154: LITERATURE FOR PRESCHOOL CHILDREN

1 credit. Prerequisite: none.

Surveys books for use with preschool children. Includes techniques of storytelling and reading to children.

ECE 155: LITERACY AND THE YOUNG CHILD

1 credit. Prerequisite: none.

Emphasizes activities and materials for developing auditory and visual perception and other reading readiness skills in the preschool.

ECE 156: MUSIC IN THE PRESCHOOL CURRICULUM

1 credit. Prerequisite: none.

Outlines activities and materials for teaching music in the preschool, including songs, dances and rhythm activities.

ECE 157: ART IN THE PRESCHOOL CURRICULUM

1 credit. Prerequisite: none.

Describes activities and materials for teaching art in the preschool, including creative development and enjoyment of art through various materials and activities.

COURSES

Early Childhood Education • Economics

ECE 158: ACTIVITIES FOR PHYSICAL DEVELOPMENT IN YOUNG CHILDREN

1 credit. Prerequisite: none.

Introduces activities and equipment for enhancing gross motor development of the preschool child.

ECE 161: SOCIAL STUDIES AND THE YOUNG CHILD

1 credit. Prerequisite: none.

Emphasizes activities and material for teaching social studies in the preschool, with specific content appropriate for young children drawn from anthropology, economics, geography, history, political science, sociology and psychology.

ECE 167: CHILD ABUSE AND NEGLECT

1 credit. Prerequisite: none.

Provides the opportunity for students to learn the legal definition, symptoms, causes, and reporting procedures of child abuse and neglect. The class will include discussion of the roles and responsibilities of community agencies such as law enforcement, social services, child care personnel, medical and psychosocial professionals.

ECE 168: INFECTIOUS DISEASES & FIRST AID IN CHILD CARE

1 credit. Prerequisite: none.

Provides information about infectious diseases and first aid measures in the child care setting. Course content will include recognizing communicable and acute illnesses, management of accidents and injuries, preventive measures, health education, current research, and community resources.

ECE 198B: SPECIAL TOPICS IN CHILD DEVELOPMENT

1-6 credits. Prerequisite: none.

Studies issues related to child development and early childhood education.

ECE 200: THE EXCEPTIONAL CHILD

3 credits. Prerequisite: none.

Surveys the characteristics and specific needs of special children. Emphasizes teaching and behavioral management as well as available support services.

ECE 204: PRINCIPLES OF CHILD GUIDANCE

3 credits. Prerequisite: none.

Studies effective communication with children in guiding behavior. Emphasis will be placed on techniques which help children build positive self-concepts and individual strengths within the context of appropriate limits and discipline. The study includes uses of direct and indirect guidance techniques as well as introduction to guidance systems.

ECE 231: PRESCHOOL PRACTICUM: EARLY CHILDHOOD LAB

1-6 credits. Prerequisite: ECE 251 or consent of instructor.

Allows students to work directly with young children under supervision of a master teacher for three hours per week per credit. Students will contract with the instructor and supervisor for completion of projects. Projects will be related to such areas as routines in the preschool, advanced curriculum planning and implementation, or communication techniques with parents. Lesson plans will be completed and carried out with children.

ECE 235: ADAPTING CURRICULA FOR YOUNG CHILDREN WITH SPECIAL NEEDS

3 credits. Prerequisite: none. Recommend ECE 251 and HDFS 201 or ECE 131.

Studies educational procedures used with young children with special needs and their families. Validated teaching procedures will be introduced including identification and referral, program planning, organizing the learning environment, promoting behavior change and adapting curriculum domains.

ECE 240: ADMINISTRATION OF THE PRESCHOOL

3 credits. Prerequisite: ECE 131.

Studies principles and practices in supervision and management of preschool and child care centers, including program planning, organization, budgeting, personnel records, relationships with community resources, regulatory agencies and working with parents.

ECE 251: CURRICULUM IN EARLY CHILDHOOD EDUCATION

3 credits. Prerequisite: ECE 131.

Considers methods of planning and teaching curriculum for children 3-5 years old. Included will be curriculum development, children's play, lesson planning, and daily scheduling. Emphasis will be on curriculum development for children 3-5 years old in areas such as art, science, literature, music, language arts, block, dramatic play, etc.

ECE 295: SUPERVISED WORK EXPERIENCE

1-6 credits. Prerequisite: consent of instructor.

Allows supervised work experience with preschool age children utilizing principles in a practice situation.

ECONOMICS

DEPARTMENT CODE: ECON

ECON 102: PRINCIPLES OF MICROECONOMICS

3 credits. Prerequisite: none.

Covers supply and demand, the four types of markets (perfect competition, monopolistic competition, oligopoly and monopoly), operations of markets, consumer and enterprise behavior, and price determination.

ECON 103: PRINCIPLES OF MACROECONOMICS

3 credits. Prerequisite: none.

Introduces the study of the determination of levels of national income, employment and prices, and basic causes for fluctuation for these levels.

ECON 261: PRINCIPLES OF STATISTICS I

3 credits. Prerequisite: MATH 126 or equivalent.

Offers probability and major probability distributions, sampling theory, descriptive statistics, measure of central tendency and dispersion, index figures, and time series.

ECON 262: PRINCIPLES OF STATISTICS II

3 credits. Prerequisite: ECON 261.

Offers statistical inference; estimation hypothesis testing, simple linear regression and correlation, and analysis of variance.

COURSES

Education

EDUCATION

DEPARTMENT CODE: EDU

Also see courses under Educational Leadership
(Department Code EL).

EDU 201: INTRODUCTION TO ELEMENTARY EDUCATION

3 credits. Prerequisite: none.

Introduces the foundations of elementary education, current trends and issues in curriculum and instruction, the roles of teachers and issues of diversity. Includes field experience.

EDU 202: INTRODUCTION TO SECONDARY EDUCATION

3 credits. Prerequisite: none.

Introduces the prospective middle/secondary school teacher to the role of thinker/reflective practitioner. Creates awareness of the historical, social, political and economic forces influencing schooling in the United States.

EDU 203: INTRODUCTION TO SPECIAL EDUCATION

3 credits. Prerequisite: none.

Surveys the various types of exceptionalities. Emphasizes etiology, physical and educational characteristics.

EDU 204: INFORMATION TECHNOLOGY IN TEACHING

3 credits. Prerequisite: none.

Studies the use of microcomputers in operations and word processing applicable to classroom for teachers to operate and utilize microcomputers in education. Special instruction fees.

EDU 206: CLASSROOM LEARNING ENVIRONMENTS

3 credits. Prerequisite: EDU 201.

Presents the function and analysis of elementary school classrooms, daily activities, and methods of behavior management. Includes field experience.

EDU 207: EXPLORATION OF CHILDREN'S LITERATURE

3 credits. Prerequisite: none.

Surveys children's literature: issues, genre, censorship, historical background, book evaluation and selection.

EDU 208: CHARACTERISTICS OF STUDENTS WITH MILD TO MODERATE DISABILITIES

3 credits. Prerequisite: EDU 203. Corequisite: EDU 209.

Focuses on students with learning disabilities, mental retardation, behavior disorders and language disorders, and their accommodation in general education environments.

EDU 209: EXCEPTIONAL CHILD EXPERIENCE

1 credit. Prerequisite: EDU 203. Corequisite: EDU 208.

Applies field experience to acquaint students with types of disabling conditions and kinds of services available to persons with disabilities.

EDU 220B: ED TECH METHODS K-12: WORD

1-3 credits. Prerequisite: none.

Instructs teachers and future teachers in the classroom applications for Microsoft Word.

EDU 221B: ED TECH METHODS K-12: POWERPOINT

1-3 credits. Prerequisite: none.

Instructs teachers and future teachers in the classroom applications for Microsoft PowerPoint.

EDU 222B: ED TECH METHODS K-12: EXCEL

1-3 credits. Prerequisite: none.

Instructs teachers and future teachers in the classroom applications for Microsoft Excel.

EDU 223B: ED TECH METHODS K-12: ACCESS

1-3 credits. Prerequisite: none.

Instructs teachers and future teachers in the classroom applications for Microsoft Access.

EDU 234B: TEACHER CERTIFICATION PROCESS

.5-3 credits. Prerequisite: none.

Provides new teachers, prospective teachers and substitute teachers a better understanding of the certification procedures and processes needed for obtaining a Nevada Teaching Certificate.

EDU 235B: CHALLENGE GIFTED/TALENTED STUDENT K-12

.5-3 credits. Prerequisite: none.

Offers instructors techniques and methods on how to keep the gifted and talented student challenged in the classroom.

EDU 237B: ART METHODS FOR TEACHERS K-12

.5-3 credits. Prerequisite: none.

Offers instruction to teachers on how to teach and use art projects in the K-6 classroom.

EDU 238B: ART METHODS FOR TEACHERS 7-12

.5-3 credits. Prerequisite: none.

Offers instruction to teachers on how to teach and use art projects in the 7-12 classroom.

EDU 239B: MOTIVATIONAL FACTORS K-12

.5-3 credits. Prerequisite: none.

Presents methods of teaching, adapting, and applying various forms of motivational techniques to help children bridge the gap between previous encounters and new learning experiences.

EDU 241B: PORTFOLIOS ACROSS THE CURRICULUM K-12

.5-3 credits. Prerequisite: none.

Offers methods of using portfolios across the curriculum in grades K-12.

EDU 242B: READING AND WRITING CONNECTION K-12

.5-3 credits. Prerequisite: none.

Addresses the issues of reading for meaning and comprehension as well as writing and responding to literature to help construct meaning.

EDU 245B: SPELLING METHODS K-12

1-3 credits. Prerequisite: none.

Examines the developmental stages of spelling and explores both direct instruction and student engaged activities.

COURSES

Education • Educational Leadership • Electrical Engineering

EDU 246B: ADVANCED TUTOR TRAINING

1 credit. Prerequisite: EDU 240B or consent of instructor.

Provides advanced application of contemporary learning theory relating to one-to-one tutorials and small group learning situations. Emphasizes philosophy, procedures, and practices of supplemental instruction which are known to be effective at improving learning for conflict management, learning styles, co-dependency in tutoring, and tutoring in a multicultural environment.

EDU 250B: PERSONALITY TYPES & LEARNING STYLES

1-3 credits. Prerequisite: none.

Introduces an overview of personality type and the implications on learning and teaching styles. Methods to modify teaching techniques will be stressed.

EDU 252B: ASTRONOMY FOR TEACHERS K-12

.5-3 credits. Prerequisite: none.

Covers how to use astronomy in the K-12 classroom, how to become familiar with hands-on astronomy materials, the solar system, how to use telescopes, and methods of report writing, using planet profile charts and sundials.

EDU 255B: MATH METHODS FOR GIFTED & TALENTED K-8

.5-3 credits. Prerequisite: none.

Offers methods of teaching math to the gifted and talented K-8 student.

EDU 256B: MATH METHODS FOR TEACHERS K-8

.5-3 credits. Prerequisite: none.

Offers methods of teaching math for elementary school students K-8, including algebra, geometry, and hands on techniques.

EDU 257B: HANDS-ON SCIENCE K-12

.5-3 credits. Prerequisite: none.

Offers instructors methods of teaching science in their classroom and exposes teacher to compelling research and resource areas and specialized application in science and discovery type topics.

EDU 261B: SOCIAL STUDIES METHODS K-12

.5-3 credits. Prerequisite: none.

Offers methods course on how to enrich, prepare, and develop any social studies unit in order to be able to teach with confidence.

EDU 268B: COMPUTERS IN THE CURRICULUM

1 credit. Prerequisite: none.

Offers an individualized, project-based computer lab class designed to meet the needs of practicing teachers or pre-service teachers.

EDU 271B: ESL TEACHING METHODS

1-3 credits. Prerequisite: none.

Assists recertifying teachers, and students in the field of education, who work with Limited English Proficiency (LEP) students.

EDU 276B: MANAGEMENT METHODS FOR SUBSTITUTES

.5-3 credits. Prerequisite: none.

Offers practical methods and ready-to-use ideas for K-12 substitutes, including models of discipline, attentions signals, active participation, instant ideas, transition activities, methods for dealing with problem behavior, and inclusion strategies.

EDU 277B: METHODS OF CLASSROOM MANAGEMENT

.5-3 credits. Prerequisite: none.

Provides practical instructional and organizational methods for the inclusive classroom, including organization and record keeping, daily routines, models of discipline, methods for dealing with behavior problems, motivation, active participation, planning and assessment.

EDU 295B: SPECIAL TOPICS IN EDUCATION

1-6 credits. Prerequisite: none. Repeatable as topics vary.

Covers selected topics in education and critical and current issues in education.

EDU 297: READING FOR TEACHERS

2 credits. Prerequisite: none.

Meets the Nevada Department of Education requirements for teacher certification and recertification. Instructs teachers in various aspects of reading, sequential skills, identification methods, and improvement methods for vocabulary and study reading.

EDUCATIONAL LEADERSHIP

DEPARTMENT CODE: EL

EL 101: EDUCATIONAL EXPERIENCE I

3 credits. Prerequisite: none.

Introduces the basic philosophical, sociological, psychological, historical, legal and anthropological foundations of education. Prerequisite for upper division courses in education. Meets state certification requirements in Nevada school law.

ELECTRICAL ENGINEERING

DEPARTMENT CODE: EE

EE 200: NETWORK ANALYSIS LAB

1 credit. Corequisite: EE 201.

Introduces electrical engineering basic laboratory procedures and equipment.

EE 201: INTRODUCTION TO NETWORK ANALYSIS

3 credits. Prerequisite: PHYS 181 for Engineering Science students or ET 131B for Engineering Technology students. Corequisite: EE 200 for students intending to major in electrical engineering at a university.

Introduces analysis methods and network theorems used to describe the operation of electrical circuits. Includes resistive, capacitive and inductive components in DC and AC circuits.

EE 231: COMPUTER METHODS FOR ELECTRICAL ENGINEERS

3 credits. Prerequisite: CS 201 and MATH 181 or consent of instructor.

Solves engineering problems using a computer. Studies errors, root finding, matrix algebra, complex numbers, graphics and programming. Introduces numerical methods and MATLAB.

COURSES

Electrical Engineering • Electronics Technology

EE 236: INTRODUCTION TO COMPUTER ENGINEERING

4 credits. Prerequisite: CS 201.

Studies organization and operation of a selected microprocessor, number systems, data formats, programmers model, assembly language, debugging techniques, interrupts, and Boolean logic. (Same as CS 236)

EE 298: COOPERATIVE TRAINING REPORT

1 credit. Prerequisite: Enrollment in Pre-Engineering Program.

Instructs in preparation of written reports based on cooperative program assignments.

ELECTRONICS TECHNOLOGY

DEPARTMENT CODE: ET

ET 100B: SURVEY OF ELECTRONICS

3 credits. Prerequisite: none.

Offers an overview of the ever-expanding fundamental relationships of voltage, current, impedance, amplification, radio receivers, transmitters and wave propagation. Includes some coverage of digital electronics and measurement.

ET 101B: SOLDERING/ASSEMBLY

2 credits. Prerequisite: none.

Teaches basic soldering safety practices along with soldering and de-soldering skills required for building and repairing electronic circuits. Students learn to recognize common electronic components, and learn to lay out/assemble circuits from schematic diagrams.

ET 102B: BASIC DC ELECTRONICS

3 credits. Prerequisite: none.

Teaches the basic concepts of DC electronics using computer assisted instruction integrated with laboratory experiments. Basic DC electronics is an important fundamental for understanding new technology. Stresses electrical and electronic safety, where to find jobs in the electronics industry, problem solving and thinking skills, and exposes students to a variety of DC electronics circuits and systems.

ET 103B: BASIC AC ELECTRONICS

3 credits. Prerequisite: ET 102B or permission of instructor.

Teaches the basic concepts of AC electronics by using computer assisted instruction integrated with laboratory experiments. Explores alternating current and its many applications in the electronics world. Safety practices to be used when working with AC voltages will be stressed.

ET 108B: BASIC SEMICONDUCTORS

3 credits. Prerequisite: ET 103B or permission of instructor.

Teaches the basic concepts of semiconductors by using computer assisted instruction integrated with laboratory experiments. Explores the operation of diodes, transistors, integrated circuits and solar cells, and illustrates the role they play in today's high-tech equipment. The course stresses electrical and electronic safety, where to find jobs in the electronics industry, problem solving, and thinking skills, and exposes new students to a variety of semiconductor circuits and components.

ET 109B: BASIC ELECTRONIC CIRCUITS

3 credits. Prerequisite: ET 108B or instructor permission.

Teaches students the basic concepts of electronics circuits by using computer assisted instruction integrated with laboratory experiments. Leads the students through the circuits found in almost all electronics equipment, from amplifiers and power supplies to oscillators, multi-vibrators, and wave shaping circuits. The course stresses electrical and electronic safety, where to find jobs in the electronics industry, problem solving and thinking skills, and exposes new students to a variety of electronics circuits, components and techniques.

ET 117B: BASIC PRACTICAL ELECTRICITY

3 credits. Prerequisite: none.

Introduces the student to how electricity is generated and used. Both AC and DC current will be studied.

ET 131B: ELECTRONICS I

4 credits; includes lab. Prerequisite/Corequisite: MATH 112 or consent of instructor.

Familiarizes students with fundamentals of DC and AC electronics including Ohm's and Kirchoff's laws, series and parallel circuits, simple networks, capacitance, inductance, impedance and resonance. More than half the time is spent in laboratory experiments where students apply the theoretical concepts and learn to use standard laboratory instruments such as oscilloscopes, multi-meters, power supplies, and signal generators.

ET 132B: ELECTRONICS II

4 credits; includes lab. Prerequisite: ET 131B; Prerequisite/Corequisite: MATH 127 or consent of instructor.

Familiarizes students with basic semiconductor devices and circuits: diodes, transistors, opamps, thyristors, oscillators and optoelectronics. More than half the time is spent in laboratory experiments with electronic circuits utilizing these components.

ET 134B: BASIC TROUBLESHOOTING (DC/AC CIRCUITS)

2 credits. Prerequisite: ET 131B & ET 132B or consent of instructor.

Introduces students to basic troubleshooting techniques using computer simulation to troubleshoot and repair more than 50 circuits with hidden faults. Standard measuring instruments such as the DMM and oscilloscope are fully utilized in the process. Includes practice using commercial grade soldering/desoldering equipment to replace parts.

ET 172B: SEMI-CONDUCTOR DEVICES

4 credits; includes lab. Prerequisite: ET 131B.

Covers common devices used in the electronics industry i.e., diodes, transistors, and operational amplifiers, in a variety of applications including active filters, amplifiers, and power supplies.

ET 173B: ADVANCED TROUBLESHOOTING (ANALOG CIRCUITS)

2 credits. Prerequisite: ET 172B or consent of instructor.

Covers troubleshooting of semiconductor devices and analog circuits. Using computer simulation, students analyze and repair more than 50 circuits with hidden faults. Standard measuring instruments such as the DMM, Function Generator, Bode Plotter and oscilloscope are fully utilized in the process.

COURSES

Electronics Technology • Emergency Medical Services

ET 174B: CIRCUIT SIMULATION

2 credits. Prerequisite: ET 132B and ET 172B or consent of instructor. Introduces students to basic circuit simulation methods using PSpice for Windows, a full-featured simulator. Students analyze transient and steady-state characteristics of passive dc/ac circuits and active circuits using common solid-state devices. Also covers tolerance analysis (Monte Carlo), noise analysis, harmonic distortion (Fourier), and worst case analysis.

ET 175B: CIRCUIT SIMULATION II

2 credits. Prerequisite: ET 174B or consent of instructor. Expands the concepts covered in ET 174B, which introduced circuit simulation methods using a PSpice for Windows. Students analyze transient and steady-state behavior of operational amplifiers and digital circuits.

ET 198B: SPECIAL TOPICS IN ELECTRONICS

1-6 credits. Prerequisite: none. Explores various topics of current interest/demand in Electronics Technology.

ET 200B: ELECTRONICS PROJECTS

.5-6 credits. Prerequisite: ET 131B and consent of instructor. Studies special projects in Electronics Technology.

ET 246B: INDUSTRIAL ELECTRONICS MEASUREMENT & CONTROL

4 credits; includes lab. Prerequisite: ET 132B or consent of instructor. Provides training in instrumental error analysis, tolerances, electrical standards, and AC and DC meter operation for both analog and digital application. The internal operation of laboratory instruments, transducers, oscilloscopes and spectrum analyzers will be examined.

ET 280B: DIGITAL ELECTRONICS

1-6 credits; includes lab. Prerequisite: ET 132B. Introduces the principles of logic circuits, digital integrated circuits, Boolean algebra, memory devices, data conversion, flip-flops and registers, sequential logic circuits, combinational logic circuits and more. Students apply theoretical knowledge with hands-on experiments.

ET 283B: MICROPROCESSOR/CONTROLLER

4 credits; includes lab. Prerequisite: ET 132B. Provides a foundation in microprocessor architecture and micro-computer basics including numbering systems and codes, computer arithmetic and programming, interfacing with RAM and ROM, and various input/output devices such as the PIA or the MUART.

ET 284B: MICROPROCESSORS II

4 credits; includes lab. Prerequisite: ET 283B or consent of instructor. Expands the concepts learned in ET 283B to include analog conversion, serial data communications, memory devices, programmable timers, signal conditioning, sensors, motors, control devices and control circuits. Includes coverage of display multiplexing, I/O control and handshaking.

ET 286B: COMMUNICATIONS CIRCUITS

4 credits; includes lab. Prerequisite: ET 172B or consent of instructor. Introduces the techniques of AM, FM and PM transmitters and receivers. Develops the concepts of antennas, transmission lines, electromagnetic propagation and impedance matching through related laboratory experiments.

ET 291B: DIGITAL TROUBLESHOOTING

2 credits. Prerequisite: ET 280B or consent of instructor. Covers troubleshooting of digital devices and circuits. Using computer simulation, students analyze and repair more than 50 circuits with hidden faults. Standard measuring instruments such as the DVM and Logic Analyzer are fully utilized in the process.

ET 295B: WORK EXPERIENCE I

1-4 credits. Prerequisite: consent of instructor. Provides the student with on-the job supervised and educationally directed work experience.

EMERGENCY MEDICAL SERVICES

DEPARTMENT CODE: EMS

EMS 100B: BCLS/CPR HEALTHCARE PROVIDER

.5 credit. Prerequisite: none. May be repeated for up to one credit. Teaches Basic Cardiac Life Support/Cardiopulmonary Resuscitation for the Healthcare Provider which includes: one rescuer CPR, two rescuer CPR, and management of foreign body obstruction of the airway in adults, children and infants, as well as recognition of signs and symptoms, actions for survival, and prevention of risk factors for heart attack and stroke. Certification according to the standards of the American Heart Association is issued upon successful completion.

EMS 101B: HEARTSAVER FACTS

.5 credit. Prerequisite: none. May be repeated for up to one credit. Combines adult CPR and the use of an automated external defibrillator (AED) with basic first aid procedures. Students in this course will learn how to perform adult CPR, relieve a foreign-body airway obstruction, use a barrier device during rescue breathing, use an AED and provide first aid for acute injuries and sudden illness.

EMS 105B: FIRST RESPONDER

3 credits. Prerequisite: must be 16 years old; current Healthcare Provider CPR certification. Provides training in emergency medical care for those most likely to be the initial responders to a sudden illness or injury including law enforcement, firefighters, bus drivers, athletic trainers, school nurses, and others. Meets or exceeds the U.S. DOT criteria and requirements for state certification as First Responder.

COURSES

Emergency Medical Services • Engineering • English

EMS 108B: EMERGENCY MEDICAL TECHNICIAN - BASIC

7 credits. Prerequisite: current Healthcare Provider CPR certification. Recommend EMS 105B be taken prior to this course.

Trains providers at the EMT-B level in scene safety and management; assessment and recognition of patient conditions; emergency medical care of ill and injured patients; and continuing care during emergency ambulance transportation to the hospital emergency department. Course includes instruction, practice and hospital observation. Meets or exceeds U.S. DOT criteria and requirements for state certification.

EMS 109B: EMERGENCY MEDICAL SERVICES: REFRESHER COURSE

2 credits. Prerequisite: current EMS certification. Current Healthcare Provider CPR certification.

Reviews and updates knowledge and skills in the area of emergency medical services for those persons who have been certified as Emergency Medical Technicians. Includes 30 hours of instruction and practice. Meets or exceeds U.S. DOT criteria and requirements for state certification.

EMS 110B: EMERGENCY MEDICAL TECHNICIAN INSTRUCTOR TRAINING

3 credits. Prerequisite: current EMS certification. Current Healthcare Provider CPR certification. Recommend minimum of one year ambulance experience.

Provides EMS personnel with concepts of teaching-learning; methods of teaching (content and skills); preparation and use of media and technology; and rationale for use of various evaluation tools and techniques. Meets or exceeds U.S. DOT criteria and requirements for state certification as EMS instructor for the level of the provider's certification.

EMS 115B: EMERGENCY MEDICAL TECHNICIAN - ENHANCED

4 credits. Prerequisite: current EMT-B or EMT-D certification. Current Healthcare Provider CPR certification. Recommend minimum of one year ambulance experience.

Prepares the experienced EMT with more advanced skills in patient assessment; emphasizes physician medical control communication; use of intravenous therapy for fluid resuscitation or medication administration; appellation of advanced airway and ventilatory management; and administration of specific medications under current protocols. Meets requirements and current eligibility requirements for Nevada certification as an EMT-Enhanced.

EMS 119B: BCLS/CPR INSTRUCTOR

1 credit. Prerequisite: current BCLS/CPR Healthcare Provider Certification. Prepares participants who are certified at the Basic Cardiac Life Support/Cardiopulmonary Resuscitation Healthcare Provider level to teach CPR courses, including: BCLS/CPR Healthcare Provider, Heartsaver, and Pediatric Basic Life Support. Certification according to standards of the American Heart Association is issued upon successful completion.

ENGINEERING (UNIVERSITY TRANSFER COURSES)

Also see courses under the following headings: Computer Science (Department Code CS), Electrical Engineering (Department Code EE), Mechanical Engineering (Department Code ME), Metallurgical Engineering (Department Code METE).

ENGR 150B: INTRODUCTION TO COMPUTERS FOR ENGINEERS

3 credits. Prerequisite: MATH 181.

Provides a basic level computing course for students in engineering disciplines. Problems from different disciplines of engineering will be selected and solved using MS Excel and Maple software. Activities will include analysis and graphing of data, solving linear and nonlinear equations and calculus applications in engineering.

ENGLISH

DEPARTMENT CODE: ENG

ENG 62: SPELLING SKILLS

1-2 credits. Open entry, open exit. Prerequisite: none.

Provides instruction in spelling strategies, working with the most commonly misspelled words. Students practice basic spelling rules, improve their spelling memories, and develop proofreading skills.

ENG 63: PUNCTUATION

1-2 credits. Open entry, open exit. Prerequisite: none.

Provides instruction in basic punctuation. Students practice the most important rules and conventions of punctuation, including end marks, apostrophes, quotation marks, and commas.

ENG 68: GRAMMAR

1-2 credits. Open entry, open exit. Prerequisite: none.

Provides instruction in basic grammar and the rules which govern the English language. Students practice grammar exercises, learning such things as parts of speech, subjects and verbs, verb tenses, clauses, phrases, sentence types, and sentence faults.

ENG 80: DIAGNOSTIC/PRESCRIPTIVE READING

1 credit. Prerequisite: none.

Focuses on reading improvement, through individual diagnostic procedures, identifies reading problems, prescribes and implements remediation procedures.

ENG 90: BASIC WRITING I

NOTE: Class is offered in two different modes to accommodate diverse student learning styles. Choose between traditional course format and Computer Assisted Instruction - PLATO course format.

A) Traditional Course: 3 credits. Prerequisite: none. Grading: Pass/Fail.

Provides instruction in basic English skills including grammar, mechanics, punctuation, spelling, and sentence structure. Focuses on a variety of sentence patterns and types. Provides extensive practice in grammar, mechanics, and usage.

B) Computer Assisted Instruction - PLATO Course: .5-3 credits.

Open entry/open exit. Prerequisite: none.

Use one of the PLATO lab computers to improve fundamental skills in spelling, punctuation, grammar or reading. The area of focus will be determined at the first meeting. Students should plan to commit one hour per week per credit in the PLATO lab throughout the course.

COURSES

English

ENG 92: COMPUTER-AIDED READING DEVELOPMENT

1-3 credits. Open entry, open exit. Prerequisite: reading placement test or permission of instructor.

Provides improvement in basic reading skills, including understanding new words, vocabulary development, and reading comprehension. Practice provided in reading for the main idea, recalling facts, and drawing conclusions.

ENG 93: READING IMPROVEMENT

3 credits. Prerequisite: none.

Reviews fundamental reading skills. Includes word attack skills, vocabulary development, dictionary skills and reading comprehension. Recommended minimal reading level for this course is between fourth and fifth grades. Course does not correct reading disabilities.

ENG 95: BASIC WRITING II

3 credits. Prerequisite: none. Grading: Pass/Fail.

Provides instruction in basic writing skills including sentence patterns and basic paragraph development. Provides review of grammar, mechanics, punctuation, spelling, and word usage. Some sections of the course may be offered through computer-assisted instruction.

ENG 98: BASIC WRITING III

3 credits. Prerequisite: College Board Test of Standard Written English or equivalent examination.

Helps students improve their writing for school or on the job. Offers practice in sentence, paragraph and short essay writing with attention to grammar, sentence structure and punctuation. The student will learn how to combine sentences and paragraphs to communicate clearly and effectively.

ENG 101: COMPOSITION I

3 credits. Prerequisite: College Board Test of Standard Written English or equivalent examination, or a grade of C or better in ENG 98.

Studies expository writing with special attention to the modes, arrangement and style. Students learn to write essays which are unified, thorough, clear and convincing. They learn the research, reasoning and organizational skills necessary for effective academic and research writing.

ENG 102: COMPOSITION II

3 credits. Prerequisite: ENG 101 or consent of instructor.

Continues the study of expository writing. Students read and analyze writing and discursive techniques of interpretation, argument, and research.

ENG 115B: POWER READING

3 credits. Prerequisite: ENG 93 with a C or better, reading placement exam, or permission of the instructor.

Helps the average reader improve reading efficiency through practice with advanced comprehension skills. Reading rate is thereby improved indirectly. Students with heavy academic or on-the-job reading will benefit. Attention is also given to expanding reading vocabularies.

ENG 116B: COLLEGE READING

3 credits. Prerequisite: ENG 115B with a C or better, reading placement exam, or permission of the instructor.

Shows students how to adapt and apply academic reading strategies to suit the distinct characteristics of different subject areas. Comprehension and retention will be the general goals of this course; in addition to a core text, materials from liberal arts and occupational courses will be assigned.

ENG 200: NOVELS INTO FILM

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor.

Studies film and novel genres to examine the transformation in genre when novels are made into films. Students read novels and view films based on those novels to examine the relative impact of each form upon the audience as well as to understand the differences between literary and film genre. Emphasizes critical reasoning to hone sharper perceptions as well as develop more conscious reasoning and writing skills.

ENG 205: INTRODUCTION TO CREATIVE WRITING

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor.

Offers a beginning writers' workshop in both poetry and fiction.

ENG 221: WRITING FICTION

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor.

Teaches fiction writing in a workshop setting. Includes lectures and discussion of plot, character style, and elements of fiction. Students are required to produce several works of short fiction.

ENG 222: INTERMEDIATE FICTION WRITING

3 credits. Prerequisite: ENG 221 or consent of instructor.

Continues the study and application of the elements of fiction in a constructive workshop setting. Writers will learn how to write cover letter, query letters, critiques, artist statement, and synopses. Manuscript format, submission protocol and market research will be discussed.

ENG 223: THEMES OF LITERATURE

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor.

Offers readings of short stories, poems, plays and novels on a theme selected by the instructor. Course could examine such a topic as the American myth of the frontier or study perceived differences between various multicultural perceptions and attitudes in Europe and the United States.

ENG 226: MEMOIR AND AUTOBIOGRAPHY

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor.

Offers a writing-intensive class which explores various approaches to writing memoirs, autobiography, family history, autobiography-based fiction, or other "life stories," incorporating the classic elements of the personal essay.

ENG 231: WORLD LITERATURE I

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor.

Surveys literary masterpieces of the Western World. The works as well as the traditions and values they reflect are emphasized. Works from the Old and New Testaments, Sophocles, Plato, St. Augustine, Dante, Chaucer, Cervantes and Shakespeare will be examined.

COURSES

English • English as a Second Language

ENG 232: WORLD LITERATURE II

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Continues ENG 231. Surveys literary masterpieces of the Western World after the mid 1600s.

ENG 235: SURVEY OF ENGLISH LITERATURE I

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Offers readings of English literature from the Anglo-Saxon invasion to the close of the 18th century by such authors as Chaucer, Spencer, Shakespeare, Milton, Bunyan, Defoe and Swift.

ENG 236: SURVEY OF ENGLISH LITERATURE II

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Continues ENG 235. Offers readings of English literature of the 19th and 20th centuries, including Hardy, Joyce, Eliot, Lawrence, Auden and Thomas.

ENG 241: SURVEY OF AMERICAN LITERATURE I

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Introduces major American writers, e.g., Franklin, Dickinson, Melville, Hawthorne, Poe and Whitman, Twain. The course presents important literary and social trends as presented through poetry, short story, drama and the novel. It is designed to provide a general knowledge of American literature and thought.

ENG 242: SURVEY OF AMERICAN LITERATURE II

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Includes readings of American literature written in the United States after 1860 by such authors as Hemingway, Steinbeck, Faulkner, Frost, Fitzgerald, and Sandburg.

ENG 250: CHILDREN'S LITERATURE

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Includes reading and discussing selected children's literature. Students examine the role of literature in various themes and genres.

ENG 258: SHAKESPEARE THEATRE FESTIVAL

1 credit. Prerequisite: none. Involves a field trip to the Ashland Shakespearean Festival. Includes reading, viewing and discussing selected plays.

ENG 266: POPULAR LITERATURE

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Studies various forms of popular writing, e.g., best-sellers, the western, science fiction, fantasy, the detective story.

ENG 267: INTRODUCTION TO WOMEN AND LITERATURE

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Studies women writers and the ways in which women are portrayed in literature.

ENG 271: INTRODUCTION TO SHAKESPEARE

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Examines Shakespeare's principal plays read for their social interest and their literary excellence.

ENG 275: CONTEMPORARY LITERATURE

3 credits. Prerequisite: ENG 101 and ENG 102 or consent of instructor. Studies selected contemporary writers for understanding and appreciation. Emphasizes British and American figures.

ENG 282: INTRODUCTION TO LANGUAGE AND LITERARY EXPRESSION

3 credits. Prerequisite: none. Recommend ENG 101 or ENG 102. Explores the forms and function of language with special application to literary study.

ENG 297: READING AND INTERPRETING LITERATURE

3 credits. Prerequisite: none. Recommend ENG 101 or ENG 102. Examines the methods for creating personal, critical responses to literature representing a range of time periods and genres. Within the framework of traditional and current critical approaches to literature, students will read the works from a thematic, as well as a critical, perspective.

ENGLISH AS A SECOND LANGUAGE

DEPARTMENT CODE: ESL

ESL classes are available at WNCC through a grant-funded program. Please contact the Adult Basic Education program for further information.

ESL 50: ENGLISH AS A SECOND LANGUAGE CITIZENSHIP PREPARATION I

0-3 credits. Prerequisite: ESL 40 or intermediate ESL proficiency. Offers group instruction in citizenship for adults with limited English proficiency. The course emphasizes U.S. and local history and government at an intermediate ESL level and reviews the types of questions which citizenship examiners tend to ask.

ESL 65: ENGLISH AS A SECOND LANGUAGE COMPUTER LITERACY

0-3 credits. Prerequisite: high intermediate English speaking and reading ability. Offers an introductory computer literacy course for the ESL student. Introduces the computer, its parts, the keyboard functions, and basic computer literacy concepts and applications.

ESL 70: ENGLISH AS A SECOND LANGUAGE KEYBOARDING

0-3 credits. Prerequisite: high intermediate English speaking and reading ability. Introduces the touch system followed by speed and accuracy development so the ESL student can learn the alphabetic and numeric keys of the computer keyboard.

ESL 75: ENGLISH AS A SECOND LANGUAGE WORD PROCESSING

0-3 credits. Prerequisite: ESL 65. Introduces ESL students to the basics of word processing, including margin settings, spell check, columns, and tabs. Emphasis is on improving English skills through use of word processing to write simple documents.

COURSES

English as a Second Language • Environmental Studies • Finance Food Service Operations

ESL 88: ENGLISH AS A SECOND LANGUAGE CITIZENSHIP PREPARATION II

0-3 credits. Prerequisite: native English proficiency.

Offers individualized, self-paced instruction in citizenship for adults with advanced or native English communication skills. The course emphasizes U.S. and local history and government and reviews the types of questions which citizenship examiners tend to ask.

ENVIRONMENTAL STUDIES

DEPARTMENT CODE: ENV

ENV 100: HUMANS AND THE ENVIRONMENT

3 credits. Prerequisite: MATH 120 or consent of instructor.

Provides an interdisciplinary, introductory survey of the ecology of natural systems with emphasis on the relationship of humans to the environment. Four laboratory experiences required.

FINANCE

DEPARTMENT CODE: FI

FI 103B: ANALYZING FINANCIAL STATEMENTS

1-3 credits. Prerequisite: none. ACC 135 or ACC 201 recommended.

Introduces the basic principles of financial statement interpretation. The student will study basic balance sheet, income statement and cash flow analysis.

FI 115B: CREDIT AND COLLECTIONS

1-3 credits. Prerequisite: none.

Provides the student with knowledge of asset/collateral requirements, credit bureau requests and working knowledge of the credit application process. Collection guidelines and procedures, collection management and collection correspondence are discussed and studied. The student will receive information on payment options and repositions and recovery.

FI 171B: PRODUCT KNOWLEDGE

2 credits. Prerequisite: none.

Introduces the various financial products of the business. Financial offerings will include discussions of credit, insurance, loan processing, customer service, dealer service, collection service, refinance programs, financial product codes, and various financial offerings.

FI 172B: LOAN APPROVAL

1 credit. Prerequisite: none.

Covers the loan approval process. The student will gain a working knowledge of product codes, performance pricing, credit collateral matrix, lending programs, and approval policies.

FI 173B: LOSS PREVENTION

1-3 credits. Prerequisite: none.

Introduces the basics of loss prevention. The student will discuss and apply concepts including: profit and loss, level of delinquency, locating collateral, repossessions, outside agencies, and deficiency operations.

FI 182B: DAVOX SOFTWARE

1 credit. Prerequisite: none.

Studies the concepts and capabilities of collection call software. Applications include: logging onto Davox, processing calls, software integration, call campaigns, and macros and tips on implementation.

FI 183B: SKIP TRACING

1 credit. Prerequisite: none.

Provides the various tools necessary to use skip tracing methods. The student will learn how to identify skips, locate a skip, perform search, and demonstrate skills related to skip tracing.

FI 184B: COLLECTIONS WITH "DAYBREAK SOFTWARE"

1 credit. Prerequisite: none.

Presents the application of Daybreak collection software. The student will study navigation, maintenance, shortcuts, account details, account history, payoff quotes, and basic operations of collection software.

FI 185B: CONTRACT VERIFICATION AND ACTIVATION

2 credits. Prerequisite: none. FI 115B recommended.

Introduces the functions of the funding department. The student will study credit application, approval notification, product codes, special financing, retail installment credit, supporting document process, internal funding forms and activation operations.

FI 215B: LOAN UNDERWRITING

3 credits. Prerequisite: none. FI 115B recommended.

Introduces the process of loan processing, credit applications, debt/ratio analysis, loan approval, and guideline verification in the application and implementation process. Students will gain a working knowledge of the loan underwriting process.

FI 267B: NEGOTIABLE INSTRUMENTS

1-3 credits. Prerequisite: none. FI 115B recommended.

Introduces the basic functions of payment operations. The student will study: credit cards, home equity loans, student loans, revolving accounts, credit scores, credit balance analysis, and payment functions.

FOOD SERVICE OPERATIONS

DEPARTMENT CODE: FST

FST 219B: RESTAURANT OPERATIONS

3 credits. Prerequisite: none.

Offers the student direct contact with the dining public. The student will rotate through the cooking station, the service station and the warewashing station. This is an opportunity to gain experience in the live operation of a food service outlet.

FST 272B: LIQUOR AND BAR MANAGEMENT

3 credits. Prerequisite: none.

Deals with the management and operation of the beverage business. Topics to include sales, marketing, inventory, purchasing, customer service, accounting and personnel management of the beverage industry.

COURSES

French • General Education Development • Geographic Information Systems

FRENCH

DEPARTMENT CODE: FREN

FREN 101B: CONVERSATIONAL FRENCH I

3 credits. Prerequisite: none.

Emphasizes spoken communication. Listening, reading and writing skills will be explored. A vocabulary of French-English words can be developed to suit student needs.

FREN 102B: CONVERSATIONAL FRENCH II

3 credits. Prerequisite: FREN 101B or consent of instructor.

Offers a second semester of Conversational French designed to continue and improve the skills learned in the first semester.

FREN 111: FIRST YEAR FRENCH I

4 credits. Prerequisite: none.

Develops language skills through practice in listening, speaking, reading, writing and structural analysis. Includes an introduction to French culture.

FREN 112: FIRST YEAR FRENCH II

4 credits. Prerequisite: FREN 111, its equivalent or consent of instructor.

Continues with the second semester of the course to build on speaking, writing and reading skills in the French language.

FREN 211: SECOND YEAR FRENCH I

3 credits. Prerequisite: FREN 112, its equivalent or consent of instructor.

Considers structural review, conversation and writing and reading in modern literature.

FREN 212: SECOND YEAR FRENCH II

3 credits. Prerequisite: FREN 211, its equivalent or consent of instructor.

Continues structural review, conversation and writing and reading in modern literature.

GENERAL EDUCATION DEVELOPMENT

DEPARTMENT CODE: GED

GED classes are available at WNCC through a grant-funded program. Please contact the Adult Basic Education program for further information.

GED 60: BASIC ACADEMIC SKILLS I/PRE-GED PREPARATION

0-3 credits. Prerequisite: none.

Provides individual and small-group learning for students needing basic skills in arithmetic and reading or life skills competencies before beginning preparation for the GED.

GED 80: BASIC ACADEMIC SKILLS II/PRE-GED PREPARATION

0-3 credits. Prerequisite: none.

Provides individualized and small-group learning for students needing intermediate skills in arithmetic and reading or life skills competencies while beginning preparation for the GED.

GED 89: GED PREPARATION

0-3 credits. GED Preparation Prerequisite: ABE 80 or reading skills at or above the ninth-grade equivalent. Citizenship Preparation Prerequisite: ESL 80 or advanced English speaking and reading ability.

Offers individualized and small-group learning for adults who want to earn a high school equivalency certificate in either an informal class or a computer lab setting. Reviews the five areas of the GED test: English grammar and writing sample, mathematics, reading in literature, reading in social studies, and reading in science. Students are assessed using the half-length GED Practice Test to determine skill needs and readiness for the official test. Citizenship Preparation offers individualized, self-paced instruction in citizenship for adults with advanced or native English communication skills. The course emphasizes U.S. and local history and government and reviews the types of questions which citizenship examiners tend to ask.

GEOGRAPHIC INFORMATION SYSTEMS

DEPARTMENT CODE: GIS

GIS 109: INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

3 credits. Prerequisite: none.

Introduces GIS software and hardware systems, including operating systems, screens, functions, file types, file management, movement of data from databases and spreadsheets into GIS, and survey of security systems and issues. Mapping concepts and the use of GPS will also be discussed.

GIS 110: PRINCIPLES OF CARTOGRAPHY

3 credits. Prerequisite: none.

Teaches the basics of analog and digital cartography (map-making). Students will be exposed to the different types of maps, scales, symbols and projections. They will learn how cartography and geographic information systems interact.

GIS 111: INTRODUCTION TO REMOTE SENSING

3 credits. Prerequisite: none.

Introduces basic remote sensing, aerial photograph interpretation, satellite image processing and cartographic concepts. Students will learn the basic techniques of remote sensing and integration of remote sensing into a GIS database.

GIS 112: INTRODUCTION TO ARCTOOLS

3 credits. Prerequisite: none.

Introduces automating, manipulating, analyzing and displaying spatial data in a digital form using the ArcInfo software program. Explores aspects of GIS, including geography, cartography, topology, database design, spatial analysis and report preparation. Students will become familiar with command language of the Arc, Arcedit, ArcPlot and INFO submodules of the ArcInfo software.

GIS 170B: GIS APPLICATIONS IN CONSERVATION ISSUES

1 credit. Prerequisite: none.

Introduces the use of GIS in analysis of spatial relationships between wildlife and land use issues. Topics will include mining activities over a region, watershed analysis, and timber harvesting strategies.

COURSES

Geographic Information Systems • Geography

GIS 171B: GIS APPLICATIONS IN URBAN & REGIONAL PLANNING

1 credit. Prerequisite: none.

Explores the application of GIS in urban and regional planning processes, spatial analysis techniques for site feasibility and evaluation of planning strategies in developing a final conceptual plan.

GIS 172B: CURRENT TRENDS IN GIS

1 credit. Prerequisite: none.

Offers workshops with topics that continually change. Applications can vary from assessment with GIS to medical and emergency response. Topics may also include new technology in GIS.

GIS 205: GIS APPLICATIONS

3 credits. Prerequisite: none.

Provides an exposure to ArcView GIS software. Students will become familiar with all aspects of this software program and its use in GIS. Students will also create a database and complete a small GIS project.

GIS 212: INTERMEDIATE ARCINFO

3 credits. Prerequisite: none.

Offers students exposure to and experience with macro designs, the Arc Macro language, managing tabular data, relating tables together, use of cursors, and knowledge of various ArcInfo modules. Students will complete a class project using ArcInfo.

GIS 235: SPATIAL ANALYSIS WITH GIS

3 credits. Prerequisite: none.

Explores use of spatial analysis in raster and vector type data sets. Also introduces how to functionally create, run, and edit spatial models. Emphasizes problems that are best solved in raster and vector environments such as surface analysis and distance measurements.

GIS 250: GIS DATABASE

3 credits. Prerequisite: none.

Learn how to create, use, edit, and manage spatial and attribute data stored in a geodatabase. Lectures and hands-on learning will emphasize loading data into the geodatabase, defining domains, subtypes, and relationship classes. Students will also become familiar with creating and working with networks.

GIS 270: GIS EXTENSIONS

3 credits. Prerequisite: none.

Introduces students to the many possible applications of extensions in ArcView. Extensions are used to analyze specific types of data related to specific GIS issues. Students will learn how to manipulate databases and load coverages into ArcView files for spatial analysis of various geographic data.

GIS 280: INTERNSHIP IN GIS

3 credits. Prerequisite: completion of two semesters of GIS program course work.

Offers the opportunity to explore the fast growing, specialty field of GIS while receiving academic credits and valuable work experience. Students work in actual offices: federal, state, local government, private firms, conservation groups and other organizations where GIS experience is valuable and opportunity is available. Students develop communication skills by interacting with a variety of professionals and learn cooperative problem solving.

GIS 290: PORTFOLIOS IN GIS

3 credits. Prerequisites: completion of the GIS program curriculum.

Explores information on where to look for employment in GIS. Students will explore different types of GIS jobs available and how GIS is being used in applications ranging from transportation planning, utility planning, urban growth management, market analysis, retail site location, business logistics, health care planning, facilities management, landscape architecture, environmental analysis, natural resource management, hazards mitigation, hazards response, and software companies. Students will also create a series of GIS projects to demonstrate their command of GIS and its application.

GEOGRAPHY

DEPARTMENT CODE: GEOG

GEOG 103: PHYSICAL GEOGRAPHY

3 credits. Prerequisite: MATH 120 or MATH 126 or higher or consent of instructor.

Teaches the physical elements of geography, nature and distribution of climate, land forms, natural vegetation, and soils. Includes at least four lab experiences.

GEOG 104: PHYSICAL GEOGRAPHY LABORATORY

1 credit. Co- or prerequisite: GEOG 103, MATH 120 or MATH 126 or higher or consent of instructor.

Offers experimental and in-depth investigations designed to illustrate fundamental principles of geosciences.

GEOG 106: INTRODUCTION TO CULTURAL GEOGRAPHY

3 credits. Prerequisite: none.

Analyzes the culture regions of the world including physical settings, peoples, settlements, economic activities, historical and political factions with primary emphasis on the Old World.

GEOG 109: ECONOMIC GEOGRAPHY

3 credits. Prerequisite: none.

Presents world distribution of economic activities and their natural bases, major occupations, such as agriculture, mining, manufacturing and trade considered in relation to natural environment.

COURSES

Geography • Geology • German

GEOG 111B: GEOGRAPHY OF YOSEMITE

1 credit. Prerequisite: none.

Introduces student to the physical and cultural geography, along with the natural history, of Yosemite National Park. Students will explore the national park, learning about the physical processes that shape the landscape and the historical events that brought about national park status. Students will gain an appreciation for their surroundings and the fragility of these rugged ecosystems.

GEOG 117: METEOROLOGY AND CLIMATOLOGY

3 credits. Prerequisite: none.

Introduces the student to the fundamentals of atmospheric sciences. The characteristics and behavior of the atmosphere, with special emphasis on the processes involved in weather and climate, will be studied.

GEOLOGY

DEPARTMENT CODE: GEOL

GEOL 100: EARTHQUAKES, VOLCANOES, AND NATURAL DISASTERS

3 credits. Prerequisite: none.

Investigates geology of the dynamic earth: natural hazards and catastrophes, and geology of natural resources.

GEOL 101: PHYSICAL GEOLOGY

3 credits. Prerequisite: MATH 120 or MATH 126 or higher or consent of instructor.

Covers fundamental principles of geology: tectonics; minerals; igneous, metamorphic and sedimentary processes; and geologic time.

GEOL 102: EARTH AND LIFE THROUGH TIME

4 credits. Prerequisite: GEOL 101 & 103.

Studies the history of the earth and the origins of its landforms from the far past to the present time, age dating, evolution of organisms, times of extinction, mountain building episodes, and periods of glaciation.

GEOL 103: PHYSICAL GEOLOGY LABORATORY

1 credit. Co- or prerequisite: GEOL 101, MATH 120 or MATH 126 or higher or consent of instructor.

Offers experimental and in-depth investigations designed to illustrate fundamental principles of geology.

GEOL 111B: GEOLOGY OF DEATH VALLEY NATIONAL PARK

2 credits. Prerequisite: none.

Provides a general field experience in geology for students with little or no earth science background. Teaches the basics of rock identification, landform analysis and identification, and interpretation of modern and ancient geologic events through field study of Death Valley National Park.

GEOL 112B: GEOLOGY OF THE EASTERN SIERRA

2 credits. Prerequisite: none.

Provides a general field experience in geology for students with little or no earth science background. Teaches the basics of rock identification, landform analysis and identification, and interpretation of modern and ancient geologic events through field study of the Eastern Sierra Nevada. Field study will include Mono Lake, Long Valley caldera, White Mountains, faults, and past glaciation in the area.

GEOL 113B: GEOLOGY OF LASSEN VOLCANIC NATIONAL PARK

2 credits. Prerequisite: none.

Provides a two-and-a-half day field experience in geology for students with little or no earth science background. Teaches the basics of volcanic rock identification, history of the Cascade Range, and interpretation of modern and ancient geologic events through field study of Lassen Volcanic National Park.

GEOL 127: PREHISTORIC LIFE

3 credits. Prerequisite: none.

Surveys the history and the classification of fossil plants and animals, methods of interpretation of the fossil records, evolution of form and structure and the sequence of fossils in rocks.

GEOL 132: ROCKS AND MINERALS

3 credits. Prerequisite: none.

Focuses on the identification of rocks and minerals. Includes an introduction to the crystallography and chemistry of minerals as well as the petrology of igneous, sedimentary, and metamorphic rocks. Concludes with an overview of ore deposits.

GEOL 201: GEOLOGY OF NEVADA

3 credits. Prerequisite: GEOL 101 or consent of instructor.

Covers important geological developments in Nevada that have occurred throughout geologic time. At least one field trip will be required.

GEOL 299B: SPECIAL TOPICS IN GEOLOGY

1-5 credits. Prerequisite: none.

Provides a study of selected topics in geology for students with little or no earth science background. Can include field experiences.

GERMAN

DEPARTMENT CODE: GER

GER 101B: CONVERSATIONAL GERMAN I

3 credits. Prerequisite: none.

Emphasizes spoken communication. Listening, reading, and writing skills will be developed to suit student needs.

GER 102B: CONVERSATIONAL GERMAN II

3 credits. Prerequisite: GER 101B or consent of instructor.

Offers a second semester of conversational German designed to continue and improve the skills learned in GER 101B.

COURSES

German • Golf Facilities Management • Graphic Communications

GER 111: FIRST YEAR GERMAN I

4 credits. Prerequisite: none.

Develops language skills through practice in listening, speaking, reading, writing and structural analysis. Includes an introduction to German culture.

GER 112: FIRST YEAR GERMAN II

4 credits. Prerequisite: GER 111 or equivalent or consent of instructor.

Continues with the second semester of the course to build on speaking, writing and reading skills in the German language.

GOLF FACILITIES MANAGEMENT

DEPARTMENT CODE: GFM

GFM 101B: GOLF COURSE MANAGEMENT & DESIGN

3 credits. Prerequisite: none.

Examines management of the key areas and the golf facility, pro shop, food and beverage, golf business supervision and profit centers. The layout of the golf facility and design of the course is to include: space utilization, hole design, topography and construction planning.

GFM 203B: GOLF SHOP MANAGEMENT

1 credit. Prerequisite: none.

Provides the student with the tools necessary to manage, layout, merchandise and operate a golf pro shop.

GFM 204B: METHODS OF TEACHING GOLF

2 credits. Prerequisite: none.

Concentrates on the basic methods of teaching the game of golf. Topics will include the grip, swing, short game, irons and woods.

GFM 205B: SHORT GAME AND PUTTING

1 credit. Prerequisite: none.

Specializes in teaching putting and chipping. It will also cover the basics of the short game including: putting techniques and shots around the green.

GFM 206B: THE RULES OF GOLF

1 credit. Prerequisite: none.

Concentrates on the rules of golf from the U.S. Golf Association. This class will cover all the rules as sanctioned by the USGA.

GFM 207B: GOLF CART MAINTENANCE

1 credit. Prerequisite: none.

Deals with golf cart maintenance. Topics will include service, maintenance, power systems, repair and use of carts in the operation of the golf facility.

GRAPHIC COMMUNICATIONS

DEPARTMENT CODE: GR (Also see ART 243 and ART 244)

GRC 103: INTRODUCTION TO COMPUTER GRAPHICS

3 credits. Prerequisites: none

Introduces systems and technologies involving various computer operating systems and associated hardware. Class is designed to provide the student specific information regarding specialized hardware and software tools used in computer-based graphic design. Introduces the history, process and function of the computer and how it relates to contemporary graphic design. Classroom projects will reinforce daily lectures and readings.

GRC 125B: GRAPHIC SOFTWARE

0.5-1 credit. Prerequisite: variable based on level of software offered.

A variety of short courses in software packages specific to graphic communications applications. Classes will include current software packages and upgrade-specific training. Verify type of software and level of instruction in current schedule of classes. Course taught as pass/withdraw only. Repeatable up to six credits.

GRC 144B: ELECTRONIC LAYOUT & TYPOGRAPHY

3 credits. Prerequisite: GRC 103 recommended.

Introduces electronic page layout software with an emphasis on typographic layout and design.

GRC 156: COMPUTER ILLUSTRATION I

3 credits. Prerequisite: GRC 103 recommended or consent of instructor.

Introduces the use of vector graphics to create illustrations and designs on the computer.

GRC 175: WEB DESIGN & PUBLISHING I

3 credits. Prerequisite: basic computer skills, GRC 103 recommended.

Introduces web site design. Focuses on the shift from traditional print design theories to visual design in relation to the Internet and applications for designing web sites. Exercises will focus on the creation of web sites and visual design, as well as related concepts and practices.

GRC 179: MULTIMEDIA DESIGN & PRODUCTION I

3 credits. Prerequisite: GEC 103 or consent of instructor.

Introduces animation using the computer. Focuses on creating and combining multimedia, making movies that can be viewed either on the Internet or as a stand-alone projector saved on a disk using industry standard software.

GRC 185: COMPUTER ANIMATION I

3 credits. Prerequisite: Basic computer skills, GRC 103 recommended.

Provides a practical understanding of the knowledge and skills required of fine and applied visual artists in today's 3-D digital design studio. Computer lab assignments and lectures will provide diversified experiences. Various interdisciplinary aspects will be considered.

GRC 188: WEB ANIMATION & INTERACTIVITY I

3 credits. Prerequisite: GRC 103 & 175 recommended.

Introduction to video and animation concepts and technologies for the World Wide Web. Class will work with Adobe Premier and Macromedia Flash in the creation and production of interactive.

COURSES

Graphic Communications • History • Home Economics Hotel, Restaurant & Casino Management

GRC 240B: ELECTRONIC PUBLISHING II

3 credits. Prerequisite: GRC 144B.

Continuation of GRC 144B with an emphasis on advanced desktop publishing procedures.

GRC 256B: COMPUTER ILLUSTRATION II

3 credits. Prerequisite: GRC 156.

Offers intermediate vector-based visual design using the computer. This is the second in a sequential set of courses on visual design. Exercises and advanced design problems will challenge the student to create various design solutions on the computer.

GRC 294B: PROFESSIONAL PORTFOLIO

3 credits. Prerequisite: Minimum of 21 credits of GRC design/production classes or consent of instructor.

Development of a portfolio for employment in the graphic communications field. Professional and legal requirements will be explored.

HISTORY

DEPARTMENT CODE: HIST

HIST 101: UNITED STATES HISTORY TO 1865

3 credits. Prerequisite: none.

Offers a survey of American history and civilization from the time of the first European settlement to about 1865.

HIST 102: UNITED STATES HISTORY 1865 TO PRESENT

2 credits. Prerequisite: none.

Covers American history and civilization since the end of the American Civil War.

HIST 105: EUROPEAN CIVILIZATION TO 1648

3 credits. Prerequisite: none.

Covers the development of Western civilization and history from its beginnings in the valleys of the Nile, Tigris, and Euphrates rivers to the mid-17th century rise of strong nation-states.

HIST 106: EUROPEAN CIVILIZATION 1648 TO PRESENT

3 credits. Prerequisite: none.

Covers Western civilization and history from the mid-17th century to the present.

HIST 111: SURVEY OF AMERICAN CONSTITUTIONAL HISTORY

3 credits. Prerequisite: none. Satisfies U.S./ Nevada constitution requirements.

Teaches the origin, development, history of the Nevada and United States constitutions. Course will examine the American judicial system through a number of significant decisions and will analyze the individuals who made those decisions.

HIST 207: DISCOVER NEVADA'S PAST

1-3 credits. Prerequisite: none.

Explores the many historic sites and scenic areas of Nevada, utilizing lecture discussions, slide presentations, readings and videos.

HIST 217: NEVADA HISTORY

3 credits. Prerequisite: none.

Studies Nevada's history from prehistoric times to the present. The course will examine the early mining and cattle frontiers, the development of towns and the advent of industrialization as well as the 20th century problems of water, energy, and growth.

HIST 225: INTRODUCTION TO THE VIETNAM WAR

3 credits. Prerequisite: none.

Surveys U.S. involvement in Vietnam from 1954 to U.S. withdrawal in 1975. Course provides overview of the land, history and culture of Vietnam and the region. Concludes with an overview of post-U.S. involvement issues and the present-day Vietnam.

HIST 247: INTRODUCTION TO THE HISTORY OF MEXICO

3 credits. Prerequisite: none.

Introduces pre-Columbian Mexico, Colonial New Spain and Mexican national history to the present.

HIST 281: INTRODUCTION TO THE HISTORY OF SCIENCE I

3 credits. Prerequisite: none.

Presents the history of the physical, mathematical, natural, biological and medical sciences from the 17th century to the present.

HIST 295: SPECIAL TOPICS IN HISTORY

3 credits. May be repeated for up to 6 credits. Prerequisite: consent of instructor.

Studies a selected issue or topic of significance in history. The intent will be to develop an awareness of and appreciation for the complex forces which have shaped the modern world. Material will be drawn from a variety of sources and may be interdisciplinary.

HOME ECONOMICS

DEPARTMENT CODE: HEC

HEC 122B: CREATIVE COOKING

1-3 credits. Prerequisite: none.

Familiarizes students with the food and cooking patterns of various ethnic groups. Combines good nutrition and economical shopping tips with a variety of cooking techniques and recipes from around the world.

HOTEL, RESTAURANT & CASINO MANAGEMENT

DEPARTMENT CODE: HRC

If a student completes all four of the listed courses plus a math class at the Business Math level or higher, that student will receive a certificate of completion from the college to be used in obtaining entry level employment in the WNCC service area.

HRC 161B: QUANTITY FOOD PRODUCTION

3 credits. Prerequisite: none.

Includes observation and training in commercial kitchen operations. Includes butchering, quantity food preparation, care of utensils and merchandising.

COURSES

Hotel, Restaurant & Casino Management • Human Development & Family Studies Humanities • Hypnosis • Information Science

HRC 164B: PROFESSIONAL CULINARY ARTS

4 credits. Prerequisite: none.

Covers fundamental culinary techniques and skills of modern cookery. Special emphasis placed on cooking theories, procedures and ingredients.

HRC 166B: FOOD SERVICE SANITATION

3 credits. Prerequisite: none.

Teaches the theory and practice of food and environmental sanitation in the culinary field. Food-related diseases, disease origins and personal hygiene are given special attention. Meets standards for National Sanitation Certification.

HRC 168B: BASIC GARDE MANGER

3 credits. Prerequisite: HRC 166B. Corequisite: HRC 164B.

Introduces fundamentals of proper techniques, and preparation of egg cookery; hot and cold sandwiches; lunch and dinner salads; hot and cold appetizer production.

HUMAN DEVELOPMENT & FAMILY STUDIES

DEPARTMENT CODE: HDFS

HDFS 201: LIFE SPAN HUMAN DEVELOPMENT

3 credits. Prerequisite: none.

Studies human growth over the life span covering the biological influences on development and the processes of intellectual and social development. Reviews the family system and explores major challenges and developmental issues facing families today.

HDFS 202: INTRODUCTION TO FAMILIES

3 credits. Prerequisite: none.

Explores the dynamics of development, interaction, and intimacy of primary relationships in contextual and theoretical frameworks, societal issues and choices facing diverse family systems. This course is taught from a bio-psycho-social approach within the family ecological system context. It incorporates issues relevant to international families and diverse family arrangements within North America. Traditional issues of families are reframed, reconstructed, and questioned. Application of ideas to those working with families in a variety of settings including: physical health, mental health, economic and educational arenas.

HDFS 232: DIVERSITY AND THE YOUNG CHILD- A MULTICULTURAL PERSPECTIVE

3 credits. Prerequisite: none.

Considers the development of young children from the prenatal period through age 8, focusing on diversity among children. Diversity will be explored in cultural, ethnic and linguistic variations as well as differences in ability and typical/atypical development. Students will seek to understand development and its cultural variations so that teaching young children will be more effective, empathic and aware. This course will explore the many ways of growing up and the worldwide diversity of that process.

HUMANITIES

DEPARTMENT CODE: HUM

HUM 101: INTRODUCTION TO THE HUMANITIES

3 credits. Prerequisite: none.

Offers an interdisciplinary approach to the humanities. Students study major works in art, music, literature, and philosophy with historical framework.

HUM 299: PHI THETA KAPPA HONORS SEMINAR

1 credit. Corequisite: concurrent enrollment in a transfer course.

Focus on the international honors topics established yearly by Phi Theta Kappa. Each student in the seminar will be expected to prepare an oral presentation linking the honors topic to the course for which he/she wishes to receive honors credit.

HYPNOSIS

DEPARTMENT CODE: HYP

HYP 101B: INTRODUCTION TO SELF-HYPNOSIS

3 credits. Prerequisite: none.

Examines the history of hypnosis, philosophy of hypnosis as well as the practice of hypnosis. Explores the different approaches to trance and the advantages of self-hypnosis.

INFORMATION SCIENCE

DEPARTMENT CODE: IS

IS 101: INTRODUCTION TO INFORMATION SYSTEMS

3 credits. Prerequisite: none.

Introduces student to the role of computers in the modern business environment. Computers play an increasingly important role in managing information that is crucial to the survival of all types of organizations and of society itself. Lab experience will include exposure to a programming language, database information management systems, spreadsheets and word processing.

IS 115: INTRODUCTION TO PROGRAMMING

3 credits. Prerequisite: COT 105 and IS 201 or approval of instructor.

Offers a language-independent, introductory course on computer program design and development. Emphasizes identification and solution of business problems through various design tools.

IS 201: COMPUTER APPLICATIONS

3 credits. Prerequisite: IS 101 and (1 credit each) CIT 201B, 202B, and 203B recommended.

Offers advanced topics in spreadsheets, computer database management systems and macro-programming. Reviews traditional methods and modern software tools to generate applications that do not require detailed and highly technical program writing efforts. Includes hands-on computer time.

COURSES

Insurance • Italian • Journalism • Laboratory Technician • Law

INSURANCE

DEPARTMENT CODE: *INS*

INS 210: PROPERTY AND LIABILITY INSURANCE

3 credits. Prerequisite: none.

Emphasizes facts, principles, basic concepts and Nevada Statutes covering property and liability insurance.

ITALIAN

DEPARTMENT CODE: *ITAL*

ITAL 101B: CONVERSATIONAL ITALIAN I

3 credits. Prerequisite: none.

Emphasizes spoken communication. Listening, reading and writing skills will be explored. A vocabulary of Italian-English words can be developed to suit student needs.

ITAL 102B: CONVERSATIONAL ITALIAN II

3 credits. Prerequisite: *ITAL 101B* or consent of instructor.

Continues with the second semester of the course to build on speaking, writing and reading skills in the Italian language.

ITAL 111: ELEMENTARY ITALIAN I

4 credits. Prerequisite: none.

Introduces the Italian language through the development of language skills and structural analysis. Includes an introduction to Italian culture.

ITAL 112: ELEMENTARY ITALIAN II

4 credits. Prerequisite: *ITAL 111*.

Continues study of the Italian language through the development of language skills and structural analysis. Includes an introduction to Italian culture.

JOURNALISM

DEPARTMENT CODE: *JOUR*

JOUR 101: CRITICAL ANALYSIS OF MASS MEDIA

3 credits. Prerequisite: none.

Surveys the role of newspapers, radio, television, advertising and public relations organizations. Offers interpretation of the day's news and analysis of media performance.

JOUR 201: MEDIA WRITING

3 credits. Prerequisite: *JOUR 101*.

Teaches writing in journalistic and persuasive styles for mass media. Emphasis on analysis and organization of information, and clarity of expression. Formerly Basic Reporting.

JOUR 205: MEDIA ETHICS

3 credits. Prerequisite: none.

Offers a systematic consideration of moral issues in the practice of mass communication.

JOUR 222: PHOTOJOURNALISM

3 credits. Prerequisite: none.

Teaches practical techniques covering news and public relations photography. Students learn to use photographic equipment and learn how to compose, shoot and crop photographs for news and advertising.

JOUR 290: INTERNSHIP IN JOURNALISM

3 credits. Prerequisite: none.

LABORATORY TECHNICIAN

DEPARTMENT CODE: *LTE*

LTE 110: TECHNIQUES OF VENIPUNCTURE

4 credits. Prerequisite: none.

Gives the student the knowledge and skills necessary to perform the collection, identification, and preservation of specimens as applied to venipuncture technique. The course includes medical terminology, ethics, fingerstick procedure, and patient contact methods. Emphasizes the role of the venipuncturist in a modern health and delivery system.

LAW

DEPARTMENT CODE: *LAW*

LAW 101: FUNDAMENTALS OF PARALEGALISM I

3 credits. Prerequisite: none

Introduces legal terminology, state and federal court systems, the trial process, legal writing, legal research, and a variety of substantive laws.

LAW 198B: SPECIAL TOPICS IN THE LAW

1-6 credits. Prerequisite: none

Covers a variety of legal subjects in short courses.

LAW 204: TORTS

3 credits. Prerequisite: *LAW 101* or consent of instructor.

Covers the major torts at common law as well as selected cases from Nevada. The following areas will be addressed: negligence, assault and battery, false imprisonment and false arrest, intentional infliction of emotional distress, trespass to land and chattels, conversion, defamation, products liability, damages, wrongful death actions, defenses, privileges and immunities.

LAW 231: PROCEDURE - CIVIL

3 credits. Prerequisite: *LAW 101* or consent of instructor.

Emphasizes the jurisdiction of the court system in Nevada. Includes discussion of complaints, summons, answers and supplemental pleading. Also covers pre-trial tactics, motions, venue, discovery, depositions and summary judgement.

LAW 250: ADMINISTRATIVE LAW

3 credits. Prerequisite: *LAW 101* or consent of instructor.

Study of the history of administrative agencies, administrative law procedures, use of expert witnesses, laws of evidence, constitutional limitations and judicial review.

LAW 251: BANKRUPTCY

3 credits. Prerequisite: *LAW 101* or consent of instructor.

Provides a basic knowledge of bankruptcy law, with emphasis on understanding the schedules, preparing proofs of claims and motion practice within the bankruptcy court.

COURSES

Law • Library Technology

LAW 252: FAMILY LAW

3 credits. Prerequisite: LAW 101 or consent of instructor.

Covers the law related to family issues. Includes a discussion of rights and obligations of parties to each other and their offspring. Divorce, custody and support, spousal agreements, termination of parental rights, adoptions and collection of child support are discussed.

LAW 255: PROBATE, TRUST AND GUARDIANSHIP LAW

3 credits. Prerequisite: LAW 101 or consent of instructor.

Considers the law related to estate planning issues. Includes procedure to distribute a person's estate upon death, creation and administration of a trust, and procedure to appoint another to act on one's behalf. Also includes a discussion of health care documents and related elderly care issues.

LAW 260B: EMPLOYMENT LAW

3 credits. Prerequisite: LAW 101 or consent of instructor.

Covers employment contracts and wrongful termination, discrimination and sexual harassment in the workplace, ERISA, Social Security and workman's compensation, the Fair Labor Standards Act, occupational safety and health standards, labor unions, collective bargaining, strikes and boycotts.

LAW 261: LEGAL RESEARCH I

3 credits. Prerequisite: LAW 101 or consent of instructor.

Covers legal research and terminology. The student will become familiar with the law library and develop legal research skills through the use of legal digests, cases, statutes, legal periodicals, government documents and other research material. Emphasis is placed on developing legal briefing skills and finding answers to legal research questions.

LAW 262: LEGAL WRITING

3 credits. Prerequisite: LAW 101 or consent of instructor.

Focuses on the development of concise legal writing, word usage, rules of composition and grammar. Students will analyze and brief cases, as well as draft an interoffice memorandum.

LAW 263: ETHICS

1 credit. Prerequisite: LAW 101 or consent of instructor.

Covers the relationship between the attorney, client and legal assistant. Discusses what a legal assistant may and may not do. Also discusses conflicts of interest, dealing with witnesses and adverse parties and confidentiality.

LAW 265: LEGAL RESEARCH II

3 credits. Prerequisite: LAW 101, LAW 261.

Offers an in-depth study for developing legal research and writing skills with instruction in the use of computers. Covers areas included in Legal Research I in greater detail using federal and state law.

LAW 266B: LEGAL WRITING II

3 credits. Prerequisite: LAW 101, LAW 262.

Introduces persuasive legal writing. Students will draft a demand letter, motions and discovery documents.

LAW 295: SUPERVISED FIELD EXPERIENCE

3 credits. Prerequisite: LAW 101 or consent of instructor.

Offers legal assistance work experience under the supervision of an attorney. The student will work at a local law firm or agency eight hours a week for the 15-week semester to gain practical work experience. The student reports and evaluates his/her experience with the program coordinator.

LIBRARY TECHNOLOGY

DEPARTMENT CODE: LIB

LIB 101: RESEARCH SKILLS FOR COLLEGE PAPERS

1 credit. Prerequisite: none.

Introduces students to the college library and presents skills necessary for preparing reports and papers. Teaches students how to find and evaluate information found in books, periodicals, audio-visual materials, general reference works, the Internet and the World Wide Web. Students will also learn specific research strategies, critical thinking skills and documentation styles. Formerly LT 101.

LIB 111B: BEGINNING INTERNET RESEARCH

.5-1.0 credits. Prerequisite: none.

Introduces the novice user to the basics of conducting research and evaluating sources on the Internet and the World Wide Web. Formerly LT 111B.

LIB 201: RESEARCH ON THE INTERNET

3 credits. Prerequisite: none.

Introduces research methods used on the Internet and the World Wide Web. These methods focus on developing research strategies and critical thinking skills to effectively retrieve, evaluate, and synthesize information obtained through the Internet for research projects. Formerly LT 201.

LIB 203: MEDIA RESOURCES IN LIBRARIES

3 credits. Prerequisite: none.

Examines selection, acquisition, and organization of media resources to complement a print library collection, including the identification of the unique characteristics and contributions of media resources in libraries; issues in the evaluation and selection of a collection of media resources; the effective use of media resources in library programming; and issues in media resource collection development.

LIB 204: REFERENCE SERVICES IN SMALL LIBRARIES

3 credits. Prerequisite: none.

Introduces library reference covering materials and services in the small public library setting. Materials covered by category, including encyclopedias, directories, indexes, catalogs, and biographies. Both print and electronic reference resources covered.

COURSES

Library Technology • Machine Tool Technology

LIB 205: ADMINISTRATION OF LIBRARIES AND INFORMATION CENTERS

3 credits. Prerequisite: none.

Introduces the management of libraries and information centers, emphasizing the processes of planning, organizing, staffing, directing and controlling. Topics include: organizational environments and structure; personnel; motivation, job design, stress, teamwork, communication, decision-making, power and politics; leadership, planning and budgeting, evaluating organizational effectiveness, marketing and public relations.

LIB 206: MATERIALS SELECTIONS AND ACQUISITION

3 credits. Prerequisite: none.

Introduces the methods and objectives of evaluating and selecting library materials, reading skills and interests of library patrons and general bibliographic tools and their use. Includes analysis of information needs, policy formation, collection evaluation, acquisition of information resources, and theoretical and practical issues.

LIB 207: MATERIALS CATALOGING AND CLASSIFICATION

3 credits. Prerequisite: none.

Introduces the objectives, techniques and procedures in the classification, cataloging, and processing of books and other materials in libraries. Includes description of the organization of information resources; interpretation of computer-based systems; applications of Anglo-American Cataloging Rules; Sears and Library of Congress headings; and Dewey and Library of Congress systems.

LIB 208: COMPUTERS IN LIBRARIES

3 credits. Prerequisite: none.

Studies computers and related techniques in the library setting. Includes the description of various computer operating systems, the use of software for word processing, spreadsheets and databases; the ability to import and export information between various software programs; and a study of the various components of the Internet.

LIB 298B: SPECIAL TOPICS IN LIBRARY AND INFORMATION SCIENCES

1-6 credits. May be repeated up to six credits. Prerequisite: none.

Explores a variety of issues in libraries and the information sciences. Formerly LT 198B.

MACHINE TOOL TECHNOLOGY

DEPARTMENT CODE: MTT

MTT 105B: MACHINE SHOP I

3 credits. Prerequisite: none.

Introduces basic machine shop skills which include lathe operation, lathe speeds and feeds, precision measuring techniques, layout methods, band saw and drill press operations, and exposure to the science of heat-treating of metals. Shop safety and etiquette will be stressed. To develop entry level skills, MTT 110B is recommended.

MTT 106B: MACHINE SHOP PRACTICE I

2 credits. Corequisite: MTT 105B.

Expands the student's manual skills by putting into practice the theories, and user skills introduced in MTT 105B. The emphasis will be geared to a more practical, hands-on experience through the use of lathes, layout techniques, vertical and horizontal band saws, measuring instruments and some vertical mill work. Shop safety and cleanup are always stressed.

MTT 107B: SCREW MACHINE I

3 credits. Corequisite: MTT 105B or consent of instructor.

Introduces students to basic setup and operation of single and multi-spindle screw machines.

MTT 110B: MACHINE SHOP II

3 credits. Prerequisite: MTT 105B and MATH 110B or 120 or 126 or higher or consent of instructor.

Expands skills introduced in MTT 105B to an intermediate level and introduces further skills which include vertical mill, drill sharpening, speed feeds and some production methods.

MTT 111B: MACHINE SHOP PRACTICE II

2 credits. Corequisite: MTT 110B.

Further develops student's manual skills by putting into practice the theories and user skills introduced MTT 110B. The emphasis will be a more practical, hands-on experience through the use of vertical mill work, layout techniques, vertical and horizontal band saws, measuring instruments and some lathes. Shop safety and cleanup are always stressed.

MTT 115B: BASIC WIRE ELECTRICAL DISCHARGE MACHINE

3 credits. Prerequisite: consent of instructor.

Introduces the basics of wire EDM. Explains what EDM is, its history, how it affects day to day life, possibility of income, setups, establishing data, writing programs in MDI, writing programs off line, and editing programs on computer and on machine tool.

MTT 150B: METALLURGY

3 credits. Prerequisite: none. CHEM 100 recommended.

Offers a practical approach to metallurgy. Designed to give the machining and welding student a basic understanding of metallurgy for an entry level job in his/her field.

MTT 151B: NON-DESTRUCTIVE EXAMINATION

3 credits. Prerequisite: none.

Introduces ultrasound testing of welds and materials. Students will be using UT machines and learn to document UT testing procedures. Successful completion of this course will allow students to obtain a Level I UT certificate.

MTT 175B: ADVANCED WIRE ELECTRICAL DISCHARGE MACHINE

3 credits. Prerequisite: consent of instructor.

Covers advanced wire EDM variables. Teaches how to program in CAM and edit on machine. Studies the math and concepts of programming and cutting 3-D shapes.

COURSES

Machine Tool Technology • Management

MTT 230B: COMPUTER NUMERICAL CONTROL I

4 credits. Includes 3 hours lecture, 3 hours lab per week.

Prerequisite: MTT 105B, MTT 110B and COT 105 or 204, or consent of instructor.

Offers an introductory class to provide a basic understanding of computer numerical control. The student is introduced to the axis systems, absolute and incremental programming, tool offsets, controller operation, and fixture offsets. To better understand CNC programming process, CNC II is recommended as a followup.

MTT 232B: COMPUTER NUMERICAL CONTROL II

4 credits. Includes 3 hours lecture, 3 hours lab per week.

Prerequisite: MTT 230B or consent of instructor.

Provides a continuation of MTT 230B. Offers the student additional practical experience for development of skills with additional information and exposure to more complex applications of programming, mirror imaging, polar coordinates, tool compensation, threading and computer integrated manufacturing.

MTT 250B: MACHINE SHOP III

3 credits. *Prerequisite:* MTT 110B and DFT 124B or consent of instructor.

Expands skills introduced in MTT 105B and MTT 110B to a more advanced level by developing projects that emphasize tolerances, plan of procedure and blueprint reading. Introduces further skills for surface grinding and tool and cutter grinding.

MTT 251B: MACHINE SHOP PRACTICE III

2 credits. *Corequisite:* MTT 250B.

Further develops student's manual skills by putting into practice the theories and user skills introduced in MTT 250B. The emphasis will be a more practical, hands-on experience through the use of vertical mill work, layout techniques, vertical and horizontal band saws, measuring instruments and lathes. Shop safety and cleanup are always stressed.

MTT 260B: MACHINE SHOP IV

3 credits. *Prerequisite:* MTT 250B or consent of instructor.

Concentrates on areas of interest leading to design of an advanced project emphasizing skills learned in MTT 105B, MTT 110B and MTT 250B.

MTT 261B: MACHINE PROJECTS

1-6 credits. *Prerequisite:* consent of instructor.

Permits students to work on special projects of their own choosing and/or explore areas of special interest under the direction of a college instructor.

MTT 262B: MACHINE SHOP PRACTICE IV

2 credits. *Corequisite:* MTT 260B.

Allows students additional time to concentrate on areas of interest leading to completion of an advanced project emphasizing skills introduced in MTT 260B.

MTT 270B: MOLD MAKING I

3 credits. *Corequisite:* MTT 250B, MATH 110B, DFT 124B or consent of instructor.

Introduces the basics of mold construction for the plastic industry and die casting with a strong emphasis on plastics.

MTT 271B: MOLD MAKING II

3 credits. *Corequisite:* MTT 270B or consent of instructor.

Expands skills introduced in Mold Making I to an intermediate level and introduces further skills which include electrical discharge machine (EDM), three plate injection molds, and hot runner molds.

MTT 290B: CNC OPERATOR

1-3 credits. *Prerequisite:* none

Prepares students for an entry level position as a computer numerical control machine operator. Students will receive instruction in blueprint reading, precision measurement using micrometers, calipers, dial indicators, height gages, basic mathematics for machinists, CNC machine code familiarization, CNC operations, basic machine setup and tool selection, simple program editing and machine offsets.

MTT 292B: COMPUTER-AIDED MANUFACTURING I

1-4 credits. *Prerequisite:* MTT 230B, MTT 232B and DFT 131, or consent of instructor.

Teaches computer-aided manufacturing for two-and-a-half dimension axes (2.5D). Students learn how to design and prepare to manufacture parts on the mill and lathe using state of the art CAD/CAM software.

MTT 293B: COMPUTER-AIDED MANUFACTURING II

1-4 credits. *Prerequisite:* MTT 292B or consent of instructor.

Teaches computer-aided manufacturing for three dimension axes (3D). Students learn how to design and prepare to manufacture parts in full 3D for the CNC mill using state of the art CAD/CAM software.

MTT 295B: WORK EXPERIENCE

1-6 credits. *Prerequisite:* consent of instructor.

Provides students with on the job, supervised and educationally directed work experience.

MANAGEMENT

DEPARTMENT CODE: MGT

NOTE: MGT 212 and MGT 283 are transferable as general electives in all academic programs except for those in the College of Business at the University of Nevada, Reno or the University of Nevada, Las Vegas.

MGT 103: SMALL BUSINESS MANAGEMENT

3 credits. *Prerequisite:* none.

Provides environment and management of the small business enterprise, problems in initiating the business, financial and administrative control, marketing programs and policies, management of business operations, legal and governmental relationships.

COURSES

Management • Management Applications • Manufacturing Engineering Technology

MGT 201: PRINCIPLES OF MANAGEMENT

3 credits. Prerequisite: none. BUS 101 or MGT 103 is recommended. MGT 201 is accepted in lieu of MGRS 301 (UNR) or MGT 401 (UNLV) upon validation of content and knowledge by approved College of Business examination, or satisfactory performance ("C" or better) in MGRS 352 (UNR) or MGT 452 (UNLV) during the first year of eligibility to enroll in the appropriate upper division business course at the University of Nevada, Reno or the University of Nevada, Las Vegas. Studies fundamentals and principles of management, administrative policies, objectives and procedures, and problems of organization control and leadership.

MGT 212: LEADERSHIP & HUMAN RELATIONS

3 credits. Prerequisite: none. MGT 201 is recommended. Schools students on understanding and managing human behavior in organizations. Central to the course is developing a better understanding of one's self as a leader and exploring some of the more effective ways of leading others.

MGT 235: ORGANIZATIONAL BEHAVIOR

3 credits. Prerequisite: MGT 201 or MGT 212. Studies concepts, theories and case studies concerning the behavior of people in modern business organizations. Analyzes the internal organization structure, and managerial roles and functions, in the business and other goal-oriented institutions. Studies theory and design of organizational structure, impact of work flow, leadership styles, and control systems on human behavior.

MGT 247B: INDUSTRIAL MANAGEMENT

1-3 credits. Prerequisite: MGT 201 or MGT 212. Studies the operation of a manufacturing enterprise, concentrating on the economies of production. Introduces a grounding on analytical method early so that the broad problem areas of system design, operation, and control can be based on the analytical method.

MGT 273B: RESORT PLANNING AND DESIGN

1-3 credits. Prerequisite: none. Includes principles of modern golf resort layout and design as they pertain to destination resorts, transient resorts and surrounding mountain communities whose infrastructures support mountain resorts. Indoor and outdoor space allocation, construction, maintenance of facilities and equipment. Course work will require a resort design project, complete with term paper and model, integrating the design principles learned in class together with the regulations required by the federal National Environmental Policy Act as related to golf area/resort development, as well as a professional presentation to an audience of resort related professionals and class members.

MGT 275: TOTAL QUALITY MANAGEMENT

1-3 credits. Prerequisite: none. MGT 201 or 212 is recommended. Covers the concepts of quality planning, quality control and quality improvement.

MGT 283: PERSONNEL ADMINISTRATION

3 credits. Prerequisite: none. MGT 201 is recommended. Develops an understanding of the duties and responsibilities of personnel at the mid-management level.

MANAGEMENT APPLICATIONS

DEPARTMENT CODE: MGTA

Applied science and technology customized applications courses are designed to fit specific needs in business and industry. Specific customized classes may be found in the latest WNCC course schedule.

MANUFACTURING ENGINEERING TECHNOLOGY

DEPARTMENT CODE: MET

MET 100B: SURVEY OF ROBOTICS & AUTOMATION

3 credits. Prerequisite: none. Offers an overview of specialized automated machinery used in industry. Emphasizes understanding industrial processes from a system approach. Demonstration of machinery in the laboratory will be central.

MET 198B: SPECIAL TOPICS IN MANUFACTURING ENGINEERING TECHNOLOGY

1-6 credits. Prerequisite: none. Explores various topics of current interest/demand in manufacturing engineering technology.

MET 200B: MANUFACTURING TECHNOLOGY PROJECTS

.5-6 credits. Prerequisite: consent of instructor. Explores various topics of current interest/demand in manufacturing engineering technology.

MET 260B: PROGRAMMABLE LOGIC CONTROLLERS

1-6 credits. Prerequisite: none. Introduces specialized programming techniques with emphasis on computer controlled automation. Students will program PLCs to control special manufacturing environments and learn troubleshooting using ladder logic.

MET 280B: INDUSTRIAL HYDRAULICS & PNEUMATICS

4 credits. Prerequisite: none. Presents the application of compressed air and hydraulics in an industrial setting. Includes hands-on experience in assembling components.

MET 281B: INDUSTRIAL ELECTRICITY/ELECTRONICS

1-4 credits; includes lab. Prerequisite: consent of instructor. Introduces basic electrical protective devices, AC generators-single and 3-phase concepts-various stepper motors, capacitors, start motors, and applications to automated systems. Industrial electronic control systems with laboratory applications will be developed.

MET 290B: ROBOTICS & AUTOMATED SYSTEMS I

4 credits; includes lab. Prerequisite: none. Emphasizes the theoretical structure and application to open-loop and closed-loop feedback circuits for specialized servo and automated systems. Hydraulic, pneumatic and electrically driven automated machinery will be developed singly as well as integrated in the laboratory.

COURSES

Manufacturing Engineering Technology • Marketing • Mathematics

MET 291B: ROBOTICS & AUTOMATED SYSTEMS II

4 credits; includes lab. Prerequisite: 290B.

Expands on skills learned in MET 290B, covering special topics with applications to computer integrated manufacturing, software development and hardware configurations. Emphasizes specific automated tasks to be performed in the laboratory.

MARKETING

DEPARTMENT CODE: MKT

NOTE: MKT 111, 115, 127, 211 and 262 are transferable as general electives in all academic programs except for those in the College of Business at the University of Nevada, Reno or the University of Nevada, Las Vegas.

MKT 111: INTRODUCTION TO MERCHANDISING

3 credits. Prerequisite: MKT 210.

Provides the knowledge necessary to buy merchandise profitably, with mastery of the role of the buyer in relation to other store personnel. This course provides skills in planning and figuring markups and expense control.

MKT 115: PURCHASING

3 credits. Prerequisite: MKT 210.

Introduces the student to basic purchasing techniques and practices. Specific topics to be covered include purchasing department functions and responsibilities, purchasing tools, forms and procedures, vendor relationships, policies, and centralized versus decentralized purchasing.

MKT 123: INTRODUCTION TO SALES PROMOTION

3 credits. Prerequisite: none.

Provides the basic knowledge necessary to develop sound sales promotion practices. The course builds on a rigorous base of consumer psychology, and treats advertising, reseller stimulation, personal selling, and other communication tools as part of the overall promotional mix.

MKT 125: INTRODUCTION TO FASHION MERCHANDISING

3 credits. Prerequisite: none.

Provides a comprehensive view of the fashion industry. Gives an up-to-date guide to the fundamentals of the merchandising of fashion apparel and accessories. Presents the basic principles of fashions and how fashions begin, move, disseminate and can be predicted.

MKT 127: INTRODUCTION TO RETAILING

3 credits. Prerequisite: none. MKT 210 is recommended.

Studies an overview of retail merchandising, including buying, pricing, selling, advertising, sales promotion and display principles.

MKT 210: MARKETING PRINCIPLES

3 credits. Prerequisite: none. MKT 210 is accepted in lieu of MGRS 310 (UNR) or MKT 430 (UNLV) upon validation of content and knowledge by approved College of Business examination, or satisfactory performance ("C" or better) in MGRS 489 (UNR) or MKT 432 (UNLV) during the first year of eligibility to enroll in the appropriate upper division business course at the University of Nevada, Reno or the University of Nevada, Las Vegas.

Covers the problems of manufacturers, wholesalers, and retailers in the marketing of goods and services. Students will develop a plan applying the marketing principles.

MKT 211: INTRODUCTION TO PROFESSIONAL SALES

3 credits. Prerequisite: none. MKT 210 is recommended.

Teaches sales techniques, demonstrating various products, complexities of modern industrial and consumer products.

MKT 250: INTRODUCTION TO INTERNATIONAL MARKETING

3 credits. Prerequisite: MKT 210.

Introduces the various functions of marketing as they are performed in the international environment. Focuses on the problems and decisions facing management in international marketing. Considers the impact of difference in language, aesthetics, religion and business customs on marketing strategies.

MKT 261: INTRODUCTION TO PUBLIC RELATIONS

3 credits. Prerequisite: none.

Introduces the techniques of public relations for those holding supervisory or higher positions in management and marketing. Identifies the principles of creating and maintaining good public relations, including employee-employer relations. Customer-employee relations receive emphasis. Focuses on the programming of the total public relations effort and selecting of appropriate strategy, media and persuasive devices to accomplish objectives.

MKT 262: INTRODUCTION TO ADVERTISING

3 credits. Prerequisite: none. MKT 210 is recommended.

Presents methods and techniques in modern advertising, giving information to do the entire advertising job.

MATHEMATICS

DEPARTMENT CODE: MATH

MATH 90: ELEMENTARY ARITHMETIC

1-3 credits. Prerequisite: none.

Provides individualized instruction in basic math skills including addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Intended for students who need a review of whole numbers before studying fractions. Instruction is tailored specifically to each student's needs.

COURSES

Mathematics

MATH 91: BASIC MATHEMATICS

NOTE: Class is offered in two different modes to accommodate diverse student learning styles. Choose between traditional course format and Computer Assisted Instruction - PLATO course format.

A) Traditional Course: 3 credits. Prerequisite: none.

Provides the fundamental operation of whole numbers, fractions and mixed numbers, decimals, percentage and measurement. Offers a thorough review of basics needed in future mathematics courses and in applied fields.

B) Computer Assisted Instruction - PLATO Course: .5-3 credits.

Open entry/open exit. Prerequisite: none.

Use one of the PLATO lab computers to improve elementary arithmetic skills (addition, subtraction, multiplication and division of whole numbers, fractions, and decimals); or to develop skills in the fundamental operations of whole numbers, fractions and mixed numbers, decimals, percentages, ratios, proportions, geometry and measurements. Instruction is tailored specifically to each student's needs. Students should plan to commit one hour per week per credit in the PLATO lab throughout the course.

MATH 93: PREALGEBRA

3 credits. Prerequisite: MATH 91 or equivalent or consent of instructor.

Prepares students for MATH 95. Introduces students who have experienced difficulties with math to the language and concepts of algebra. Provides a transition from self-paced, basic math to the quick pace required in MATH 95. Course will include prime and composite numbers, signed numbers, linear equations, ratio rates and proportions, rectangular coordinate system, square roots and the Pythagorean Theorem, solving applied problems, and graphing linear equations.

MATH 95: ELEMENTARY ALGEBRA

3 credits. Prerequisite: MATH 93 or equivalent, or consent of instructor.

Offers a first course in algebra. Topics include operations with signed numbers; algebraic symbols; evaluating formulas; operations with polynomial, radical and rational expressions; solving equations and application problems using algebra; and elementary graphing. Provides a foundation for the math used in business, science, engineering and related fields.

MATH 96: INTERMEDIATE ALGEBRA

3 credits. Prerequisite: MATH 95, or one unit of high school algebra and one unit of high school geometry, or consent of instructor.

Offers a second course in algebra. Studies polynomial, rational and radical expressions; linear, quadratic and polynomial equations; linear and absolute value inequalities; relations, functions and their graphs; systems of linear equations; and applications.

MATH 100B: MATH FOR ALLIED HEALTH PROGRAMS

1-3 credits. Prerequisite: none.

Reviews basic mathematics with emphasis on those skills that apply to calculating drug dosages. Includes fractions, decimals, proportions, percents, English, apothecary and metric systems of measurements.

MATH 109B: BUSINESS MATHEMATICS

3 credits. Prerequisite: none.

See BUS 109B.

MATH 110B: SHOP MATHEMATICS

3 credits. Prerequisite: none.

Covers fractions, decimals, percentages, ratios, proportions, measurement, geometry, and briefly, the fundamentals of algebra and right triangle trigonometry.

MATH 120: FUNDAMENTALS OF COLLEGE MATHEMATICS

3 credits. Prerequisite: MATH 96 or three units of high school mathematics at the level of algebra and above.

Offers a course in real numbers, consumer mathematics, variation, functions, relations and graphs; geometry or measurement, probability and statistics, sets and logic. Course is broad in scope, emphasizing applications.

MATH 122: NUMBER CONCEPTS FOR ELEMENTARY SCHOOL TEACHERS

3 credits. Prerequisite: MATH 120 or consent of instructor.

Introduces elementary problem solving with emphasis on the nature of numbers and the structure of the real number system. Designed for students seeking a teaching certificate in elementary education.

MATH 123: STATISTICAL & GEOMETRICAL CONCEPTS FOR ELEMENTARY SCHOOL TEACHERS

3 credits. Prerequisite: MATH 120 or consent of instructor.

Presents elementary problem solving with emphasis on patterns and geometric relationships. Designed for students seeking a teaching certificate in elementary education.

MATH 124: COLLEGE ALGEBRA

3 credits. Prerequisite: MATH 96 or three units of high school mathematics at the level of algebra and above.

Studies equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential and logarithm functions; systems of linear equations and inequalities; matrices and determinants; sequences and series.

MATH 126: PRECALCULUS I

3 credits. Prerequisite: MATH 96 or three units of high school mathematics at the level of algebra and above.

Provides a third course in algebra. Topics include: polynomial, rational and radical equations; absolute value and quadratic inequalities; relations and functions; linear, quadratic, polynomial exponential and logarithmic functions, their graphs and applications; and systems of equations.

MATH 127: PRECALCULUS II

3 credits. Prerequisite: MATH 126 or three units of high school mathematics at the level of algebra and above, or consent of instructor.

Studies circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra.

MATH 128: PRECALCULUS & TRIGONOMETRY

5 credits. Prerequisite: MATH 96 or three units of high school mathematics at the level of algebra and above.

Studies relations, functions and their graphs; polynomial, rational, exponential, logarithm and trigonometric functions; analytic trigonometry; systems of equations and inequalities; conics; mathematical induction; sequences and series.

COURSES

Mathematics • Mechanical Engineering • Metallurgical Engineering • Metals

MATH 150: THE GRAPHING CALCULATOR

1 credit. Prerequisite: MATH 128 or MATH 126/127.

Introduces operation and programming of the graphing calculator.

MATH 176: INTRODUCTORY CALCULUS FOR BUSINESS & SOCIAL SCIENCES

3 credits. Prerequisite: MATH 124 or MATH 128 or MATH 126 or equivalent or consent of instructor.

Instructs students in fundamental ideas of analytical geometry and calculus. Includes plane coordinates, graphs, functions, limits, derivatives, integrals, the fundamental theorem of calculus. Includes applications to rates, extremization, and interpretation of integrals.

MATH 181: CALCULUS I

4 credits. Prerequisite: MATH 128 or MATH 126/127 or equivalent or consent of instructor.

Offers fundamental concepts of analytical geometry and calculus, functions, graphs, limits, derivatives, and integrals.

MATH 182: CALCULUS II

4 credits. Prerequisite: MATH 181 or equivalent or consent of instructor.

Teaches transcendental functions, methods of integration, conics, vectors.

MATH 283: CALCULUS III

4 credits. Prerequisite: MATH 182 or equivalent or consent of instructor.

Covers infinite series, vectors, differential and integral calculus of functions of several variables, and introduction to vector analysis.

MATH 285: DIFFERENTIAL EQUATIONS

3 credits. Prerequisite: MATH 283.

Presents methods of solving ordinary differential equations with application to physical systems. Includes systems of equations, series solution, numerical solution, and Laplace transforms.

MECHANICAL ENGINEERING

DEPARTMENT CODE: ME

ME 198, 298: COOPERATIVE TRAINING REPORT

1 credit each. Prerequisite: enrollment in engineering program.

Guides students in preparation of written reports based on cooperative program assignments.

ME 241: STATICS

3 credits. Prerequisite: PHYS 180. Corequisite: MATH 182 or consent of instructor.

Studies static force systems. Topics include resolution and composition of forces, equilibrium of force systems, friction and various constraints, moments of inertia, cables, beams, fluid static, and work.

ME 242: DYNAMICS

3 credits. Prerequisite: ME 241 or consent of instructor.

Studies kinematics and kinetics of particles and rigid bodies in two and three dimensions; relative motion; work and energy; impulse and momentum.

METALLURGICAL ENGINEERING

DEPARTMENT CODE: METE

METE 250: ELEMENTS OF MATERIAL SCIENCE

3-4 credits. Prerequisite: CHEM 121 or 201.

Provides an understanding of the internal structure of materials, the dependence of properties upon these structures, and the behavior of materials in service.

METALS

DEPARTMENT CODE: MTL

MTL 150B: METALLURGY I

3 credits. Prerequisite: none.

Approaches metallurgy with an emphasis on welding technology. Includes demonstrations, lectures, and experiments in the metals lab. Covers extraction metallurgy as well as physical metallurgy. The various destructive methods of testing metal as well as non-destructive testing of metals will be discussed and demonstrated. The processes use distortion control and technique of flame straightening.

MTL 159B: ULTRASONIC TESTING LEVEL I

3 credits. Prerequisite: none.

Offers a nondestructive testing course providing a broad, detailed look into the knowledge and hands-on experience required to function as a Level I Ultrasonic Testing inspector. Course meets the requirements of SNT-TC-1A and Military Standard-410.

MTL 171B: PENETRANT TESTING

3 credits. Prerequisite: none.

Provides a nondestructive testing course to give the student a broad and detailed look into the knowledge and hands-on experience required to function as a Level I penetrant testing inspector.

MTL 212: WELDING I

3 credits. Prerequisite: none.

Introduces welding, including safety, environmental awareness, oxy-acetylene welding, cutting, and brazing as well as shielded metal-arc.

MTL 213: WELDING II

3 credits. Prerequisite: MTL 212 or consent of instructor.

Continues MTL 212 with emphasis on developing welding skills for SMAW, GMAW, GTAW production in overhead, flat, horizontal, and vertical positions.

MTL 217B: WELDING III

3 credits. Prerequisite: MTL 213.

Includes theory and practice in gas metal-arc welding and gas tungsten-arc welding.

COURSES

Metals

MTL 218B: WELDING IV

3 credits. Prerequisite: MTL 293B.

Covers shielded metal-arc welding of pipe, flux core arc welding of pipe and introduction to A.P.I., A.S.M.E., and A.W.S. code certification. Welding of pipe provides training to develop welding skills necessary to produce high quality multipass welds on six-inch schedule, 80 mild steel pipe in the 6 G positions, using advanced welding processes.

MTL 224B: WELDING PROJECTS

1-6 credits. Prerequisite: consent of instructor.

Offers welding student additional supervised lab hours. Students will perfect their skills through an approved project or work toward an A.W.S. Code preparation.

MTL 225B: INDEPENDENT STUDY

1-6 credits. Prerequisite: consent of instructor.

Provides individualized, in-depth study of a specific area of welding technology.

MTL 259B: ULTRASONIC TESTING LEVEL II

3 credits. Prerequisite: MTL 159B.

Meets the need and requirements of today's industry standards for thickness testing and weld evaluation of base materials, discontinuity detection/evaluation, mathematical solution, and extended practical application. Practical application includes extensive lab work using the latest in equipment technology, scanning techniques and evaluation of flawed weld specimens of various geometries. Upon successful completion of the course, the student will receive an Ultrasonic Level II Certification. The course will meet the requirements recommended in SNT-TC-1A and the MIL-Std 410 for Level II certifications in ultrasonics.

MTL 266B: BEGINNING METAL SCULPTURE

3 credits. Prerequisite: none.

Explores the simplicity and beauty of metal as an art medium. No prior metalworking or art skills are required. Explores different areas after instruction and demonstrations in the metalworking process. Previous metalworking experience will be an advantage.

MTL 268B: ADVANCED METAL SCULPTURE

3 credits. Prerequisite: MTL 266B or MTL 212.

Continues MTL 266B with concentration in one or more specific areas explored in the introductory class. Focuses on more complex and intricate art projects.

MTL 285B: BEGINNING ORNAMENTAL IRONWORKING

3 credits. Prerequisite: MTL 266B or MTL 212.

Discusses and demonstrates the use of metal as an aesthetic medium or as a specific function. Various metal forming and joining methods will be introduced. Student projects for both indoor and outdoor use will be emphasized. Focuses on fence, stair and balcony railings, along with gates and security doors.

MTL 287B: ADVANCED ORNAMENTAL IRONWORKING

3 credits. Prerequisite: MTL 266B or MTL 212.

Expands the skills acquired in Beginning Ornamental Ironworking to create more advanced and complex projects. New skills and techniques will be focused on individual needs.

MTL 290B: METAL TECHNOLOGY-COOPERATIVE EDUCATION

1-4 credits. Prerequisite: consent of instructor.

Provides the student with on-the-job, supervised and educationally directed work experience.

MTL 291B: WELDING I - PRACTICE

2 credits. Prerequisite: MTL 212; may be taken with MTL 212.

Develops the student's manual skills necessary to produce high quality gas welds and flame cuts. The student learns to set up the equipment for all phases of oxy-acetylene welding and cutting. The shielded metal-arc welding section develops entry level skills for welders. This course specifically develops basic shielded metal arc welding skills such as striking the arc, maintaining proper arc length, adjusting equipment and manipulating the electrode.

MTL 292B: WELDING II - PRACTICE

2 credits. Prerequisite: MTL 212; may be taken concurrently with MTL 213.

Continues MTL 212 with emphasis on developing welding skills for SMAW, GMAW, and GTAW production in overhead, flat, horizontal, and vertical positions.

MTL 293B: WELDING III - PRACTICE

2 credits. Prerequisite: MTL 292B; may be taken concurrently with MTL 217B.

Focuses on GMAW, GTAW, and FCAW which will train the student to perform production and certification performance welding on ferrous and non-ferrous metals.

MTL 294B: WELDING IV - PRACTICE

2 credits. Prerequisite: MTL 218B and MTL 293B.

Introduces fundamental pipe welding techniques and develops basic skills for the service and transmission fields in the shielded metal-arc section. Trains welders for work in either the pressure pipe industry or transmission pipeline work using the micro-wire weld.

MTL 296B: AWS CODE PREPARATION

1-6 credits. Prerequisite: consent of instructor. May be repeated for up to 12 credits.

Introduces the student to the many certifications available by meeting the standards of the American Welding Society codes. Also, includes instruction on code certification required by the American Petroleum Institute and the American Society of Mechanical Engineers.

MTL 299B: SPECIAL TOPICS IN METALS

1-6 credits. Prerequisite: varies with the topic.

Explores specialized areas of art/metalwork. Topics include non-ferrous metals, specialized forming techniques, metal casting, introduction to new metalworking equipment, and others. Specialized welding techniques not discussed or demonstrated in other classes may be a topic for special attention.

COURSES

Music

MUSIC

DEPARTMENT CODE: MUS

MUS 101: MUSIC FUNDAMENTALS

1 credit. Prerequisite: none.

Teaches terminology, notation, intervals, scales and chords. Designed to furnish a foundation for musicianship. Formerly MUS 101 - Music Fundamentals and Ear Training.

☐ MUS 103: VOICE CLASS I

3 credit. Prerequisite: none.

Teaches fundamentals of tone production, breath control and practical techniques involved in reading and interpreting songs. Formerly MUS 113 - Class Vocal Instruction.

MUS 104: VOICE CLASS II

3 credits. Prerequisite: MUS 103.

Continues the skills learned in MUS 103.

MUS 107: GUITAR CLASS I

2-3 credits. Prerequisite: none.

Studies basic guitar technique, bluegrass, classical and rock styles. No previous musical training required. Formerly MUS 104 - Beginning Guitar Class.

MUS 108: GUITAR CLASS II

2-3 credit. Prerequisite: MUS 107 or consent of instructor.

Continues development of skills learned in MUS 107. Formerly MUS 105 - Intermediate Guitar Class.

MUS 111: PIANO CLASS I

3 credits. Prerequisite: none.

Introduces the piano, including instruction in note reading, technique, theory and easy repertoire. Students work in a laboratory setting, each using their own electronic piano. Formerly MUS 181 - Beginning Piano Class.

MUS 112: PIANO CLASS II

3 credits. Prerequisite: MUS 111 or consent of instructor.

Provides a continuation of MUS 111, a class in basic piano technique and theory. Formerly MUS 182 - Beginning Piano Class II.

MUS 119B: HARMONICA CLASS I

3 credits. Prerequisite: none.

Introduces the diatonic harmonica, including instruction in note reading, playing techniques, theory and easy repertoire. Students work in a laboratory setting using their own diatonic harmonica. Formerly MUS 132B - Beginning Harmonica.

MUS 120B: HARMONICA CLASS II

3 credits. Prerequisite: MUS 119B or equivalent.

Continues the skills learned in MUS 119B.

MUS 121: MUSIC APPRECIATION

3 credits. Prerequisite: none.

Analyzes styles and forms of music from the Middle Ages through the 20th century, and discusses musical instruments and major composers.

MUS 176: MUSICAL THEATRE PRACTICUM

2-3 credits. Prerequisite: none.

Offers musical theatre techniques for singers, actors, pianist/coaches and stage managers, including production and performance.

MUS 203: MUSIC THEORY I

3 credits. Prerequisite: none.

Introduces students to counterpoint and harmony. Formerly MUS 207.

MUS 204: MUSIC THEORY II

3 credits. Prerequisite: MUS 203.

A continuation of the skills learned in MUS 203.

MUS 207: MUSIC THEORY I

3 credits. Prerequisite: none.

Introduces students to counterpoint and harmony.

MUS 211: SIGHTSINGING & DICTATION I

1 credit. Prerequisite: none.

Introduces the techniques of reading music at sight and taking musical and rhythmic dictations without the aid of an instrument. Formerly MUS 209.

MUS 212: SIGHTSINGING & DICTATION II

1 credit. Prerequisite: MUS 211.

Continues the skills learned in MUS 211. Formerly MUS 210.

MUS 215: TECHNIQUE OF SONGWRITING

3 credits. Prerequisite: Basic knowledge of theory.

Offers a practical course in composing pop music. Analysis of hit songs and discussion of songs written by the class. Each student will compose melodies and lyrics, helping the poet with music and the musician with poetry. Formerly MUS 128.

MUS 221: SPECIAL STUDIES IN MUSIC

1-3 credits. Prerequisite: none.

Focuses in depth on a special topic in music literature. Topics might include Baroque, classical, romantic, or 20th century keyboard literature. Students will explore musical topics through both lecture and their own performance of representative works.

MUS 224: SPECIAL STUDIES IN MUSIC LITERATURE

2-3 credits. Prerequisite: Pianists should be of intermediate level proficiency. Class may be repeated for up to six credits.

Focuses in depth on a special topic in music literature. Topics might include Baroque, classical, romantic, or 20th century keyboard literature. Students will explore musical topics through both lecture and their own performance of representative works. Formerly MUS 221.

MUS 233: RECORDING TECHNIQUES AND MIDI I

2 credits. Prerequisite: none.

Introduces the MIDI process, using both computer software and music hardware. Students will learn to operate the latest models of sequencers, samplers, and synthesizers. Formerly MUS 166 - Introduction to Midi Sequencers and Synthesizers.

COURSES

Music • Music-Applied

MUS 253: JAZZ IMPROVISATION I

2 credits. Prerequisite: none.

Introduces the techniques of jazz improvisation in a laboratory setting. Formerly MUS 133 - Elementary Jazz Improvisation.

MUS 276: MUSICAL THEATRE PRACTICUM

1-3 credits. Prerequisite: none

Covers selected topics in musical theatre.

MUSIC-APPLIED

DEPARTMENT CODE: MUSA

MUSA 101: BASS

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides a personal introduction to the study and performance of music for bass.

MUSA 103: BASSOON

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Introduces students to the study and performance of music for bassoon.

MUSA 105: CELLO

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides a personal introduction to the study and performance of music for cello.

MUSA 107: CLARINET

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Introduces students to the study and performance of music for clarinet.

MUSA 109: DRUM SET

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides individual instruction in the technique and repertoire of drum set.

MUSA 113: FLUTE

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Introduces students to the study and performance of music for flute.

MUSA 115: GUITAR

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides individual instruction in the technique and repertoire of the guitar. Formerly MUS 165.

MUSA 119: HORN

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides personal introduction to the study and performance of music for horn.

MUSA 121: OBOE

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Introduces students to the study and performance of music for oboe.

MUSA 123: ORGAN

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides individual instruction in the technique and repertoire of the organ. Formerly MUS 163.

MUSA 125: PERCUSSION

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Offers private instruction in the study and performance of percussion instruments.

MUSA 127: PIANO

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Considers performance and analysis of keyboard literature from various musical eras, instruction of keyboard technique and application of basic music theory to piano literature.

MUSA 129: SAXOPHONE

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Introduces students to the study and performance of music for saxophone.

MUSA 133: TROMBONE

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides personal introduction to the study and performance of music for trombone.

MUSA 135: TRUMPET

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides personal introduction to the study and performance of music for trumpet.

MUSA 137: TUBA

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides personal introduction to the study and performance of music for tuba.

MUSA 139: VIOLA

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides personal introduction to the study and performance of music for viola.

MUSA 141: VIOLIN

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Provides personal introduction to the study and performance of music for violin.

COURSES

Music-Applied

MUSA 143: VOICE

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Introduces the correct and pleasing use of the singing voice through a well balanced and coordinated study of vocal literature and exercises. Formerly MUS 153.

MUSA 201: BASS

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for bass.

MUSA 203: BASSOON

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for bassoon.

MUSA 205: CELLO

1 credit. Prerequisite: none. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for cello.

MUSA 207: CLARINET

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for clarinet.

MUSA 209: DRUM SET

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for drum set.

MUSA 213: FLUTE

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for flute.

MUSA 215: GUITAR

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for guitar. Formerly MUS 165 - Guitar Intermediate.

MUSA 219: HORN

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for horn.

MUSA 221: OBOE

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for oboe.

MUSA 225: PERCUSSION

1 credit. Prerequisite: MUS 159. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of percussion instruments.

MUSA 227: PIANO

1-4 credits. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in keyboard literature and technique. Formerly MUS 251 - Piano - Intermediate.

MUSA 229: SAXOPHONE

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for saxophone.

MUSA 233: TROMBONE

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for trombone.

MUSA 235: TRUMPET

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for trumpet.

MUSA 237: TUBA

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for tuba.

MUSA 239: VIOLA

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for viola.

MUSA 241: VIOLIN

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in the study and performance of music for violin.

MUSA 243: VOICE

1 credit. Prerequisite: consent of instructor. Class may be repeated for a total of four credits. Fee covers cost of 14 half-hour private lessons.

Continues private instruction in vocal literature and technical exercises. Formerly MUS 253 - Voice - Intermediate.

COURSES

Music-Ensemble • Nursing

MUSIC-ENSEMBLE

DEPARTMENT CODE: MUSE

MUSE 101: CONCERT CHOIR

1 credit. Prerequisite: none. May be repeated for a total of four credits. Teaches representative choral music of all periods. Choir is featured in concerts throughout the WNCC service area.

MUSE 111: CONCERT BAND

1 credit. Prerequisite: intermediate proficiency on a band instrument. Class may be repeated for a total of four credits. Introduces study and performance of band literature. Formerly MUS 117.

MUSE 121 : SYMPHONY ORCHESTRA

1 credit. Prerequisite: consent of instructor; audition is required. Class may be repeated for a total of four credits. Includes rehearsal and performance of orchestral music. Students are required to participate in scheduled performance.

MUSE 123: ORCHESTRA

1 credit. Prerequisite: consent of instructor; audition is required. Class may be repeated for a total of four credits. Includes rehearsal and performance of orchestral music. Students are required to participate in scheduled performances. Formerly MUS 119.

MUSE 131: JAZZ ENSEMBLE

1 credit. Prerequisite: intermediate proficiency on a band instrument. May be repeated for up to 4 credits. Introduces study and performance of jazz ensemble literature. Formerly MUS 230 - WNCC Concert Jazz Band.

MUSE 135: JAZZ VOCAL ENSEMBLE

1 credit. Prerequisite: instrumentalists should be of intermediate level proficiency. No prerequisites for vocalists. Class may be repeated for a total of eight credits. Explores a variety of musical styles, including pop, rock and jazz. Formerly MUS 115 - Vocal Jazz/Pop Ensemble.

MUSE 151: STRING CHAMBER ENSEMBLE

1 credit. Prerequisite: ability to play an instrument at an intermediate level. Class may be repeated for a total of four credits. Allows for performance of music for an ensemble of string instruments.

MUSE 152: STRING QUARTET

1 credit. Prerequisite: ability to play an instrument at an intermediate level. Class may be repeated for a total of four credits. Allows for performance of string quartet literature.

MUSE 153: GUITAR ENSEMBLE

1 credit. Prerequisite: ability to play an instrument at an intermediate level. Class may be repeated for a total of four credits. Allows for performance of literature for guitar ensemble.

MUSE 171: PIANO ENSEMBLE

1 credit. Prerequisite: ability to play an instrument at an intermediate level. Class may be repeated for a total of four credits. Allows for performance of literature for piano ensemble.

MUSE 172: ACCOMPANYING

1 credit. Prerequisite: intermediate level of piano proficiency. Class may be repeated for up to four credits. Coaches the individual in the techniques used in accompanying choirs and instruments on the piano. Formerly MUS 229 - Techniques of Piano Accompaniment.

MUSE 192: SPECIAL INSTRUMENT ENSEMBLE

1 credit. Prerequisite: ability to play an instrument at an intermediate level. Class may be repeated for a total of four credits. Allows for performance of literature for instrumental ensemble.

MUSE 193: SPECIAL VOCAL ENSEMBLE

1 credit. Prerequisite: ability to play an instrument at an intermediate level. Class may be repeated for a total of four credits. Allows for performance of literature for vocal ensemble.

NURSING

DEPARTMENT CODE: NURS

NURS 110B: SPANISH FOR HEALTH CARE PROFESSIONALS

1 credit. Prerequisite: none. Provides a course for health professionals who work with Spanish speaking patients and families. Pronunciation and health related commands will be practiced.

NURS 130B: NURSE ASSISTANT

6 credits. Prerequisite: none. Provides trained nursing assistants for employment in clinical agencies or home health settings. Includes 150 hours of instruction (class, lab and clinical) in basic nursing care of children, adults and geriatric clients, and communications skills.

NURS 136: FOUNDATIONS OF NURSING SCIENCE: NURSING ROLES AND INTERVENTIONS SUPPORTING HUMAN ADAPTATION

6 credits: 3 credits lecture, 3 credits laboratory/ clinical. Prerequisite: must be an accepted nursing student. Provides a foundation for future courses in nursing. Introduces the student to the roles of nursing as a profession, drawing theory from a variety of bio-psycho-social sciences. Emphasizes the development of knowledge of the nursing process, interpersonal relationships, technical skills, legal responsibilities, and professional ethics as a member of the discipline of nursing. Emphasizes the role of provider of care using the nursing process within the context of Roy's Adaptation Model and Gordon's Functional Health Patterns. Provides a basic introduction to the role of manager of care. The student develops nursing intervention skills with scientific rationale necessary to meet the basic physical, psychosocial and cultural needs of patients of all ages. Familiarizes students with the organization and function of the health care team.

COURSES

Nursing

NURS 140: MEDICAL TERMINOLOGY

3 credits. Prerequisite: none.

Provides a basic foundation for students interested in the nursing and allied health field. Emphasis is on analyzing word parts and learning basic prefixes, suffixes and word roots. The course also highlights the body systems: basic anatomy and physiology, including basic terms used in disease and surgical procedures. Appropriate for medical secretaries, medical transcriptionists and for beginning nursing students. (Not equivalent to COT 124)

NURS 141: FOUNDATIONS OF PHARMACOLOGY IN NURSING

2 credits. Prerequisite: MATH 120 or 126 or higher. Must be an accepted nursing student or have consent of the instructor. Human Anatomy and Physiology I & II must be completed prior to taking NURS 141 during the summer term.

Provides the student with an overview of pharmacology with an emphasis on clinical applications within the context of Gordon's Health Patterns and the nursing process. The course is organized by medication classification. Explores indications, modes of action, effects, contraindications and interactions for selected drugs. Specific nursing responsibilities related to drug administration are emphasized.

NURS 155: CHILDBEARING/CHILDREARING FAMILY HEALTH

4 credits: 3 credits lecture, 1 credit laboratory/clinical. Prerequisite: successful completion of first semester of nursing curriculum.

Utilizes Roy's Adaptation Model, Gordon's Functional Health Patterns, and the nursing process to help the student develop clinical decision-making skills while providing care to patients and their families to promote family health. Introduces the student to the normal childbirth process. Concepts of growth and development and family dynamics within the context of the childbearing/childrearing family unit are emphasized. The roles of provider and manager of care and member within the discipline of nursing are augmented as they pertain to promotion of family health.

NURS 159: CLINICAL NURSING ACROSS THE LIFESPAN

7 credits: 4 credits lecture, 3 credits laboratory/clinical.

Prerequisite: successful completion of first semester of nursing program.

Incorporates Roy's Adaptation Model, Gordon's Functional Health Patterns and the nursing process in providing holistic nursing care to selected patients across the life span. Emphasizes the promotion of adaptation of the patient experiencing commonly occurring acute and chronic alterations in health. Focuses on the nurse's role as provider and manager of care. Introduces the concepts of patient teaching including the utilization of community resources.

NURS 162: TRANSITIONS TO PRACTICAL NURSING

3 credits. 1 credit lecture, 2 credits clinical. Prerequisites: successful progression through the second semester of the nursing program.

Facilitates role transition from student to graduate practical nurse. Explores the practical nurse role in relation to skills and expectations of the consumer. Clinical experiences allow students to develop and practice skills of data collection, priority setting and time management in providing care to the adult patient.

NURS 199B: ADN TRANSITION

1 credit. Includes lecture, laboratory and clinical.

Prerequisite: Accepted LPN; accepted transfer student. Accepted LPN must have passed NLN Nursing Acceleration Challenge Exam (ACE) I-PN to RN with a 75 percent or better score if nursing program course work is more than 10 years old.

Facilitates transition for the returning LPN or accepted transfer student into the second year of the nursing program. Roy's Adaptation Model, Gordon's Functional Health Patterns, nursing process, health assessment skills, roles and responsibilities are emphasized. Student performance of basic nursing skills, nursing care of adult and pediatric patients and their families, and care of the postpartum mother and newborn is assessed in laboratory or acute care setting.

NURS 200: HEALTH ASSESSMENT OF THE INDIVIDUAL

3 credits: 2 credits lecture, 1 credit laboratory. Prerequisite: Must be accepted into the nursing program or have permission of the instructor. Required for returning licensed practical nurses.

Facilitates the development of knowledge and skills necessary for the associate degree nursing graduate to carry out the first phase of the nursing process. Didactic and active learning experiences assist learners to collect, organize, analyze and synthesize health assessment data from across the lifespan utilizing Roy's Model of Adaptation and Gordon's Functional Health Patterns.

NURS 265: ALTERATIONS IN THE CHILDBEARING/CHILDREARING FAMILY

6 credits: 3 credits lecture, 3 credits laboratory/clinical.

Prerequisite: successful completion first year of nursing program or an LPN license and admission to the second year of the program.

Utilizes Roy's Adaptation Model, the nursing process and Gordon's Functional Health Patterns in the provision of care to patients and families experiencing alterations in maternal-child health. Concepts related to the care of the high-risk antepartal, intra-partal and post-partal women, the high risk newborn, women's health care issues and alterations in family relationships are explored. Concepts of loss and grieving related to the childbearing/childrearing family are examined. Community clinical experiences, with an emphasis on pediatrics are integrated throughout the course.

NURS 270: ADVANCED CLINICAL NURSING I

4 credits: 3 credits lecture, 1 credit laboratory/clinical.

Prerequisite: successful completion of first year of nursing program or an LPN license and admission into second year of the program.

Utilizes Roy's Adaptation Model, the nursing process and Gordon's Functional Health Patterns in the provision of care for patients experiencing complex/acute alterations in health. The course expands upon the three roles of the nurse. Concepts related to Adult pediatric complex care phenomenon, community based care, case management, health teaching, and discharge planning are utilized in planning care for patients.

COURSES

Nursing • Nutrition • Occupational Safety and Health Office Support Applications • Ornamental Horticulture

NURS 280: ALTERATIONS IN PSYCHOSOCIAL ADAPTATION

3 credits: 1 credit lecture, 2 credits laboratory/clinical.

Prerequisite: successful completion of the third semester of the nursing program.

Utilizes Roy's Adaptation Model, Gordon's Functional Health patterns and the nursing process in the provision of care to patients experiencing alterations in psychosocial adaptation. The student evaluates the use of therapeutic communications skills, therapeutic nurse patient relationships, pharmacological agents and psychotherapeutic approaches designed to meet the bio-psychosocial needs of the psychiatric patient. Collaborative experiences involving students, members of the psychiatric health care team and patients and their families occur at in-patient and community settings. Relevant legal and ethical issues are explored within the context of care of patients with disruptions in psychosocial adaptation.

NURS 282: ADVANCED CLINICAL NURSING II

5 credits: 3 credits lecture, 2 credits laboratory/clinical.

Prerequisite: successful completion of the third semester of the nursing program.

Utilizes Roy's Adaptation Model, the nursing process and Gordon's Functional Health Patterns in the provision of care to adult patients experiencing complex multi-system alterations in health. Communication, critical thinking, ethical decision making, therapeutic interventions and health teaching skills are strengthened as the student continues to develop within the three roles of the nurse.

NURS 284: ROLE OF THE ADN MANAGER OF CARE

2 credits: 2 credits laboratory/clinical.

Prerequisite: successful completion of third semester of nursing program and successful completion of NURS 280 and NURS 282.

Facilitates role transition from student to graduate nurse. Experiences are designed to enable students to synthesize knowledge and enhance skills of priority setting and time management in the care of multiple patients. Emphasis is placed on the role of manager of care as the student is challenged to demonstrate effective use of human, physical, financial, community and technological resources to meet the needs of the patients and their families. Utilizes principles of leadership and management as appropriate to supervision of and relationships with other health care personnel, delegation of patient care, change process and conflict resolution. Relevant legal and ethical issues are also addressed.

NURS 286B: INTRODUCTION TO CRITICAL CARE NURSING

3 credits. *Prerequisite:* must have a registered nurse license.

Examines the nurse's role in the critical care environment. Students are familiarized with concepts related to basic critical care client assessment and management. Topics include hemodynamic monitoring and shock, acute cardiovascular and pulmonary management, acute neurological and gastrointestinal dysfunctions, and organ donor. Multiorgan system dysfunction and trauma are also examined. The interventions of conscious sedation and advanced pain management are also explored.

NUTRITION

DEPARTMENT CODE: NUTR

NUTR 121: HUMAN NUTRITION

3 credits. *Prerequisite:* MATH 120 or MATH 126 or higher, or consent of instructor.

Offers a beginning course in the principles of human nutrition including a study of each of the major nutrients and how they relate to good health and a well balanced diet.

NUTR 223: PRINCIPLES OF NUTRITION

3 credits. *Prerequisite:* CHEM 220.

Considers the chemical structure and function of the macro- and micronutrients and their role in maintaining good health, beginning at the cellular level and extending to interactional properties of nutrients and diets. The last few weeks of the class are devoted to disease states with use of diet therapy as a form of treatment for diseases and related medical conditions.

OCCUPATIONAL SAFETY AND HEALTH

DEPARTMENT CODE: OSH

OSH 101: INTRODUCTION TO SAFETY & HEALTH

3 credits. *Prerequisite:* none.

Provides information and skills necessary to understand and insure safety and health in a variety of work locations. Specific attention is paid to Nevada Occupational Safety and Health Act, NRS Chapter 618. Covers the OSHA responsibilities of employers and employees, inspection procedures, complaint procedures, citations, and maximum mandatory penalties.

OFFICE SUPPORT APPLICATIONS

DEPARTMENT CODE: OSA

Applied science and technology customized applications courses are designed to fit specific needs in business and industry. The Computer and Office Technology Department offers short-term classes which address specific topics. Classes generally meet for eight hours and students earn .5 credit on a pass/fail basis. Topics include filing; writing letters, memos, reports and resumes; developing a professional image; successful telephone techniques; and handling mail. Find the most up-to-date listing of these classes in the WNCC course schedule.

ORNAMENTAL HORTICULTURE

DEPARTMENT CODE: OH

OH 105B: SOILS AND PLANT NUTRITION

3 credits. *Prerequisite:* none.

Provides the student with instruction and laboratory experience on soil derivation, classification and general characteristics, properties of soil and soil evaluation, use of soils and their management, including soil moisture, structure, cultivation, organic materials and microbiology, alkali and saline soils and reclamation.

COURSES

Ornamental Horticulture • Philosophy • Physics

OH 111B: TURF GRASS FUNDAMENTALS

3 credits. Prerequisite: none.

Helps students understand the major factors controlling the production of good turf grasses and the modifying effects of these factors upon each other.

OH 201B: TURF SPRINKLER SYSTEMS DESIGN

3 credits. Prerequisite: none.

Teaches principles of sprinkler system design with the main emphasis on automatic systems, soil moisture sensing devices and sprinkler specifications.

OH 207B: LANDSCAPE CONSTRUCTION

3 credits. Prerequisite: none.

Analyzes drawing/blueprints to determine materials, labor and insurance requirements. Landscape materials, differential leveling, grading plans and contour manipulation are also covered.

OH 215B: ADVANCED IRRIGATION DESIGN

3 credits. Prerequisite: OH 201B.

Studies advanced irrigation design applications.

PHILOSOPHY

DEPARTMENT CODE: PHIL

PHIL 101: INTRODUCTION TO PHILOSOPHY

3 credits. Prerequisite: none.

Studies basic problems in different areas of philosophy such as ethics, political theory, metaphysics, and epistemology.

PHIL 102: CRITICAL THINKING & REASONING

3 credits. Prerequisite: none.

Covers nonsymbolic introduction to logical thinking in everyday life, law, politics, science, advertising; common fallacies; and the uses of language, including techniques of persuasion.

PHIL 114: INTRODUCTION TO SYMBOLIC LOGIC

3 credits. Prerequisite: none.

Introduces symbolic logic. Studies the principles of correct reasoning, using the symbolic techniques of propositional calculus and basic quantifier calculus.

PHIL 135: INTRODUCTION TO ETHICS

3 credits. Prerequisite: none.

Provides an introduction to representative classical ethical theories.

PHIL 200: THE JUDEO-CHRISTIAN TRADITION

3 credits. Prerequisite: none.

Studies the major religious philosophic beliefs found in the Old and New Testaments along with the way these concepts were modified in post-biblical cosmology.

PHIL 204: INTRODUCTION TO CONTEMPORARY PHILOSOPHY

3 credits. Prerequisite: none.

Reviews the late 19th century movements as basis for the study of 20th century developments in thought from Nietzsche through existentialism, neopositivism, and American naturalism.

PHIL 207: INTRODUCTION TO SOCIAL AND POLITICAL PHILOSOPHY

3 credits. Prerequisite: none.

Provides readings and discussion of theories concerning the nature of society and political structure from classical and contemporary philosophers.

PHIL 210: WORLD RELIGIONS

3 credits. Prerequisite: none.

Examines the main moral and religious views of world religions.

PHIL 224: INTRODUCTION TO PHILOSOPHY OF SCIENCE

3 credits. Prerequisite: none.

Studies philosophical problems and implications of historical and contemporary scientific inquiry, e.g. the nature of laws, theories, explanations, scientific revolutions, values, relations of science and society.

PHYSICS

DEPARTMENT CODE: PHYS

PHYS 100: INTRODUCTION TO PHYSICS I

3 credits. Prerequisite: MATH 120 or MATH 126 or higher or consent of instructor.

Introduces students to a broad range of concepts in physics from basic classical mechanics to modern physics. Students will conduct several experiments with many demonstrations performed throughout the course.

PHYS 151/151L: GENERAL PHYSICS I

3 credits lecture, 1 credit lab. Prerequisite: MATH 126 and MATH 127 or MATH 128 or equivalent.

Provides a course in physics for students in arts and science, medicine and dentistry, and agriculture. Emphasis is on mechanics, heat, and sound. Students must co-enroll in both lecture and lab to receive credit.

PHYS 152/152L: GENERAL PHYSICS II

3 credits lecture, 1 credit lab. Prerequisite: PHYS 151 or consent of instructor.

Emphasizes light, electricity, magnetism and nuclear physics. Students must co-enroll in both lecture and lab to receive credit.

PHYS 180/180L: ENGINEERING PHYSICS I

3 credits lecture, 1 credit lab. Prerequisite: MATH 181.

Explores vectors, rectilinear motion, particle dynamics, work and energy, momentum, rotational mechanics, oscillations, gravitation, fluids, wave properties and sound. Students must co-enroll in both lecture and lab to receive credit.

PHYS 181/181L: ENGINEERING PHYSICS II

3 credit lecture, 1 credit lab. Prerequisite: MATH 182 and PHYS 180.

Explores electric fields, potential, current, dielectrics, circuits, magnetic fields, electromagnetic oscillations, thermodynamics and kinetic theory of gases. Students must co-enroll in both lecture and lab to receive credit.

COURSES

Physics • Political Science • Psychology

PHYS 182/182L: ENGINEERING PHYSICS III

3 credits lecture, 1 credit lab. Prerequisite: MATH 182 and PHYS 181 or consent of instructor.

Explores light, optical systems, relativity, wave aspects of particles, quantum mechanics, statistical mechanics, semiconductors, radioactivity, nuclear physics and particles. Students must co-enroll in both lecture and lab to receive credit.

PHYS 293: DIRECTED STUDY

1-3 credits. May be repeated for up to 6 credits. Prerequisite: PHYS 151 or 180 or consent of instructor.

Provides individual study conducted under the direction of a faculty member.

POLITICAL SCIENCE

DEPARTMENT CODE: PSC

PSC 103: PRINCIPLES OF AMERICAN CONSTITUTIONAL GOVERNMENT

3 credits. Prerequisite: none. Satisfies United States and Nevada Constitution requirement.

Studies constitutions of U.S. and Nevada with specific attention to various principles and current problems of government.

PSC 108: GREAT ISSUES OF POLITICS

3 credits. Prerequisite: PSC 103 or HIST 101 or consent of instructor.

Studies political processes and ways in which political decisions are made and implemented.

PSC 208: SURVEY OF STATE & LOCAL GOVERNMENT

3 credits. Prerequisite: none. Satisfies Nevada Constitution requirement.

Students learn about the organization, working principles and functional processes of state and local governments in the U.S.

PSC 231: WORLD POLITICS

3 credits. Prerequisite: none.

Explores recent and contemporary international relations and the foreign policies, policy making institutions, and the politics of various nations.

PSC 295: SPECIAL TOPICS IN POLITICAL SCIENCE

3 credits. Prerequisite: consent of instructor. May be repeated for up to six credits.

Explores in detail an issue of current interest. Topics might include: the formulation and implementation of national security policy; the implementation and formation of national, state or local policy; or the structure and function of government agencies.

PSC 299: GOVERNMENT INTERNSHIP

3 or 6 credits. Prerequisite: PSC 103 or HIST 111 and consent of instructor. If more students apply than there are positions available, students must submit resumes and will be selected by a review committee.

Provides students the opportunity to be selected to serve in federal, state or local government offices within the WNCC service area.

PSYCHOLOGY

DEPARTMENT CODE: PSY

PSY 101: GENERAL PSYCHOLOGY

3 credits. Prerequisite: none.

Introduces the field of psychology. Covers major principles and their application to the study of human behavior.

PSY 102: PSYCHOLOGY OF PERSONAL & SOCIAL ADJUSTMENT

3 credits. Prerequisite: PSY 101 or consent of instructor.

Explores personal and social adjustment.

PSY 210: INTRODUCTION TO STATISTICAL METHODS

4 credits. Prerequisite: PSY 101 or SOC 101, and MATH 96 or consent of instructor.

Offers a course in understanding statistical methods and training in the useful presentation and interpretation of behavioral science data, including elementary computer use.

PSY 220: PRINCIPLES OF EDUCATIONAL PSYCHOLOGY

3 credits. Prerequisite: PSY 101 or consent of instructor.

Introduces the application of psychology principles of learning and cognitive development.

PSY 233: CHILD PSYCHOLOGY

3 credits. Prerequisite: PSY 101 or consent of instructor.

Explains the growth and development of children from conception through early adolescence.

PSY 234: ADOLESCENT PSYCHOLOGY

3 credits. Prerequisite: PSY 101 or consent of instructor.

Examines psychological development during adolescence with emphasis on special problems in American society: drug abuse, pregnancy, and familial problems.

PSY 240: INTRODUCTION TO RESEARCH METHODS

3 credits. Prerequisite: PSY 101 or consent of the instructor.

Introduces students to the research process used in psychology and other social sciences.

PSY 241: INTRODUCTION TO ABNORMAL PSYCHOLOGY

3 credits. Prerequisite: PSY 101 or consent of instructor.

Offers an overview of abnormal psychology with emphasis on symptomology, etiology, diagnosis, treatment, and prevention.

PSY 261: INTRODUCTION TO SOCIAL PSYCHOLOGY

3 credits. Prerequisite: PSY 101, SOC 101 or consent of instructor.

Examines social influences on individuals and groups, including socialization of children and adults, development and change in attitudes and behavior, and understanding social situations as an influence on human behavior.

PSY 271: PSYCHOLOGY AND THE FAMILY

3 credits. Prerequisite: none.

Explores the relationship of the individual and the family.

COURSES

Psychology • Real Estate • Real Estate Applications • Recreation & Physical Education

PSY 275: UNDERGRADUATE RESEARCH

3 credits allowed. Prerequisite: PSY 101, PSY 210 and PSY 240.
Requires independent or collaborative research.

PSY 280: UNDERSTANDING MEN AND WOMEN

3 credits. Prerequisite: PSY 101 or consent of instructor.
Explores the similarities and differences between the sexes, the consequences of these differences for the individual and society, and how to analyze explanations of gender/sex related behaviors. The course fulfills the diversity requirement for the core curriculum at UNR.

REAL ESTATE

DEPARTMENT CODE: RE

RE 101: REAL ESTATE PRINCIPLES I

3 credits. Prerequisite: none.
Prepares students for careers in the real estate profession. Includes law of agency, listing agreements, encumbrances, legal descriptions, taxes, contracts and escrow. This course, along with RE 103, satisfies requirements of the Real Estate Division and Commission for taking the salesperson exam.

RE 102B: REAL ESTATE MATH

3 credits. Prerequisite: none.
Acquaints students with real estate math problems and develops some skills in the use of hand-held calculators to solve such problems. Includes review of basic arithmetic principles, percent, mortgage math, appraisal and depreciation problems, proration, escrow problems pertaining to closing costs, plus brief introduction to land survey problems and calculations of area.

RE 103: REAL ESTATE PRINCIPLES II

3 credits. Prerequisite: RE 101, or may be taken concurrently with RE 101.
Provides in-depth study of the real estate profession including Nevada real estate laws. Covers rules and regulations pertaining to NRS 645 and NRS 119, along with listing procedures, contracts, closing statements and office procedures.

RE 104: REAL ESTATE LAW & CONVEYANCING

3 credits. Prerequisite: none.
Acquaints students to specific laws pertaining to real estate ownership, transactions and laws governing real estate agencies. Includes agency, contracts, deeds, easements, estates in land, zoning, restrictions, tenancy, liens, foreclosures, title transfer, leases and court decisions.

RE 198B: REAL ESTATE APPRAISAL LAW & ETHICS

1 credit. Prerequisite: none.
Focuses on the requirements for ethical behavior and competent performance by appraisers set forth in the Uniform Standards of Professional Appraisal Practice. Emphasizes the role of the appraiser and examines the implied impartiality often associated with this role. Explores how the special provisions of the Uniform Standards apply to situations that appraisers encounter in everyday practice. Twelve hours are devoted to the standards and three hours are devoted to Nevada state law (NRS 645C).

RE 199: REAL ESTATE INVESTMENTS

3 credits. Prerequisite: none.
Introduces students to real estate investment and ownership. Covers property analysis, state and federal regulations, management, financial statements, formulas, techniques, protection, and investment guidelines.

RE 201B: REAL ESTATE BROKERAGE

3 credits. Prerequisite: none.
Acquaints the student with the operations of a real estate brokerage office. Covers ethics, listings, office location, physical layout, budgeting, records, and office procedures.

RE 202: REAL ESTATE FINANCING & INSURANCE

3 credits. Prerequisite: RE 101.
Acquaints the student with procedures and techniques required for the analysis of financing real property for purchase, including conventional Federal Housing Administration, Veterans Administration, interim and takeout loans.

RE 205B: REAL PROPERTY MANAGEMENT

3 credits. Prerequisite: none.
Covers the principles of real property management, including the role of an effective managing agent, accounting systems and financial controls, human relations, leases, marketing, developing management checklists, and developing effective service techniques. This course serves as a prerequisite for work in property management.

RE 206: REAL ESTATE APPRAISING

3 credits. Prerequisite: none. Course is required for broker's license.
Acquaints the student with appraising concepts and skills for appraising real estate for sale tax purposes. Covers basic principles, economic trends, site analysis valuation, neighborhood evaluations, residential style and functional utility.

REAL ESTATE APPLICATIONS

DEPARTMENT CODE: REA

Applied science and technology customized applications courses are designed to fit specific needs in business and industry. Specific customized classes may be found in the latest WNCC course schedule.

RECREATION & PHYSICAL EDUCATION

DEPARTMENT CODE: RPED

RPED 102: BEGINNING BADMINTON

2 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 204: ADVANCED SCUBA

1 credit. Prerequisite: none. Repeatable for up to four credits.

RPED 113B: SOCIAL DANCE

1 credit. Prerequisite: none. Repeatable for up to four credits.

RPED 135/137: BEGINNING & ADVANCED TENNIS

1 credit. Prerequisite: none. Repeatable for up to four credits.

COURSES

Recreation & Physical Education • Science • Social Work • Sociology

RPED 138/139: VOLLEYBALL & INTERMEDIATE VOLLEYBALL

1 credit. Prerequisite: none. Repeatable for up to four credits.

RPED 155B: AEROBIC DANCE

2 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 160/161: GOLF & INTERMEDIATE GOLF

1-2 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 174: RHYTHMIC AEROBICS

1-3 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 177B: WEIGHT TRAINING

.5-3 credits. Prerequisite: none. Repeatable for up to four credits.

Provides an introduction to exercise equipment including safety, proper usage, how to set up and how to implement an exercise program that is correlated to the individual student's physical condition and needs.

RPED 178: SLIMNASTICS & WEIGHT CONTROL

3 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 179B/181B/183B: JAZZ/ ROCK FITNESS I, II, III

1-3 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 180: BODY CONTOURING & CONDITIONING

1-2 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 199B: SPECIAL TOPICS IN PHYSICAL EDUCATION

1-3 credits. Prerequisite: none. Repeatable for up to four credits.

RPED 291: STANDARD FIRST AID

1 credit. Prerequisite: none.

Meets both in content and hours of instruction the requirements for certification for a CPR and Standard First Aid Certificate as established by the American Red Cross.

SCIENCE

DEPARTMENT CODE: SCI

SCI 100B: SURVEY OF GENERAL SCIENCE

3 credits. Prerequisite: none.

Teaches those students who need an introduction to, additional experience in, or review of basic chemistry, physics and life science concepts, problems and skills.

SOCIAL WORK

DEPARTMENT CODE: SW

SW 220: INTRODUCTION TO SOCIAL WORK

3 credits. Prerequisite: none.

Introduces the profession of social work within a historical context. Emphasis on values, human diversity, analysis of social problem solving and fields of practice.

SW 230: CRISIS INTERVENTION

3 credits. Prerequisite: none.

Analyzes types of crisis theory, effects of crisis on the individual, family and community. Looks at methods and resources for crisis intervention.

SOCIOLOGY

DEPARTMENT CODE: SOC

SOC 101: PRINCIPLES OF SOCIOLOGY

3 credits. Prerequisite: none.

Explains sociological principles underlying the development, structure, and function of culture, society, human groups, personality formation and social change.

SOC 102: CONTEMPORARY SOCIAL ISSUES

3 credits. Prerequisite: SOC 101 or consent of instructor.

Acquaints students with selected social problems, their causes and possible solutions.

SOC 202: AMERICAN SOCIETY

3 credits. Prerequisite: SOC 101 or consent of instructor.

Studies modern American society, its communities, and institutions.

SOC 205: ETHNIC GROUPS IN CONTEMPORARY SOCIETIES

3 credits. Prerequisite: introductory course in one of the social sciences. See ANTH 205.

SOC 210: INTRODUCTION TO STATISTICAL METHODS

4 credits. Prerequisite: PSY 101 or SOC 101, MATH 96 or consent of instructor.

See PSY 210.

SOC 240: SOCIAL SCIENCE RESEARCH METHODS

3 credits. Prerequisite: PSY 101 or SOC 101 or consent of the instructor.

Provides an overview of the methods and analytical techniques used in the research of social phenomena. Emphasizes the design and execution of research. Also listed as PSY 240.

SOC 261: INTRODUCTION TO SOCIAL PSYCHOLOGY

3 credits. Prerequisite: PSY 101, SOC 101, or consent of instructor.

Examines the social character of human behavior.

SOC 275: INTRODUCTION TO MARRIAGE & THE FAMILY

3 credits. Prerequisite: SOC 101 or consent of instructor.

Examines typical problems encountered in dating, courtship, marriage, and parenthood.

SOC 276: AGING IN MODERN AMERICAN SOCIETY

3 credits. Prerequisite: none.

Explores psychological and sociological development and the changes attendant to the process of aging in society; theory and research in the field, implications for social policy, and perspectives on death and dying.

COURSES

Spanish • Statistics • Surgical Technology • Theatre

SPANISH

DEPARTMENT CODE: SPAN

SPAN 101B: CONVERSATIONAL SPANISH I

3 credits. Prerequisite: none.

Emphasizes spoken communication. Listening skills, reading and writing skills will be explored. A vocabulary of Spanish-English words can be developed to suit student needs. As students progress through this four-semester sequence they will build increasing fluency in the speaking, reading and writing of Spanish.

SPAN 102B: CONVERSATIONAL SPANISH II

3 credits. Prerequisite: SPAN 101B or consent of instructor.

Offers a second semester of Conversational Spanish designed to continue and improve the skills learned in the first semester.

SPAN 103B: CONVERSATIONAL SPANISH III

3 credits. Prerequisite: SPAN 102B or consent of instructor.

Further develops skills learned in previous semesters.

SPAN 104B: CONVERSATIONAL SPANISH IV

3 credits. Prerequisite: SPAN 103B or consent of instructor.

Further develops skills learned in previous semesters.

SPAN 111: FIRST YEAR SPANISH I

4 credits. Prerequisite: none.

Develops language skills through practice in listening, speaking, reading, writing and structural analysis. Includes an introduction to Spanish culture.

SPAN 112: FIRST YEAR SPANISH II

4 credits. Prerequisite: SPAN 111, its equivalent or consent of instructor.

Develops language skills through practice in listening, speaking, reading and writing; and structural analysis.

SPAN 199B: SPECIAL TOPICS IN SPANISH

3 credits. Prerequisite: none.

Applies to assorted short courses and workshops covering a variety of subjects.

SPAN 211: SECOND YEAR SPANISH I

3 credits. Prerequisite: SPAN 112 or equivalent.

Considers structural review, conversation and writing, and readings in modern literature.

SPAN 212: SECOND YEAR SPANISH II

3 credits. Prerequisite: SPAN 211. Completion of SPAN 212 satisfies the arts and science foreign language requirement.

Continues structural review, conversation and writing, and readings in modern literature.

STATISTICS

DEPARTMENT CODE: STAT

STAT 152: INTRODUCTION TO STATISTICS

3 credits. Prerequisite: MATH 124, 126, 128 or consent of instructor.

Introduces statistics, probability models, statistical estimation and hypothesis testing, linear regression analysis, and special topics. Formerly MATH 152.

SURGICAL TECHNOLOGY

DEPARTMENT CODE: STE

STE 101B: FOUNDATIONS OF SURGICAL TECHNOLOGY

3 credits. Prerequisite: admission into the surgical technology program.

Studies the health care team and its language; the evolution of asepsis; ethical, moral and legal responsibilities; the operating room suite; principles of asepsis; introduction to pharmacology; introduction to oncology; disease conditions; diagnostic procedures and communication in surgical technology including introduction to computers.

STE 102B: OPERATING ROOM TECHNIQUES

4 credits. Prerequisite: admission into the surgical technology program.

Studies safety in the operating room; duties of the scrub technologist and the circulating nurse; surgical hand scrub, gown and glove procedures; draping techniques; sutures and needles; sponges, dressings, drains; care of specimens; instruments and special equipment.

STE 103B: STERILIZATION AND DISINFECTION

3 credits. Prerequisite: admission into the surgical technology program.

Introduces microbiology: the microbe, the body's defenses; wound healing; injury and hemostasis; infection: the process, prevention and control; and, sterilization and disinfection methods.

STE 110B: PREPARATION OF THE SURGICAL PATIENT

3 credits. Prerequisite: admission into the surgical technology program.

Provides study and practice to enable the student to become skilled in assisting with the preparation, transportation, positioning and anesthesia of the surgical patient.

STE 111B: SURGICAL PROCEDURES

4 credits. Prerequisite: admission into the surgical technology program.

Studies general surgical procedures: abdominal surgery; orthopedic surgery; obstetric and gynecologic procedures; genitourinary and transplant procedures; plastic surgery; ophthalmic surgery; ear, nose, throat and oral surgery; neurosurgery; microsurgery; cardiovascular and thoracic surgery; and pediatric and geriatric surgery. Each of the modules includes a brief history, procedures, special considerations and drugs used.

STE 132B: SURGERY CLINICAL PRACTICE

9 credits. Prerequisite: admission into the surgical technology program.

Provides clinical experience in surgery, scrubbing and orientation to circulating.

THEATRE

DEPARTMENT CODE: THTR

THTR 100: INTRODUCTION TO THEATRE

3 credits. Prerequisite: none.

Studies plays of the classic and modern periods, of genres such as tragedy, comedy, farce, and melodrama, and of the art and craft of theatre.

COURSES

Theatre • Women's Studies • Woodworking

THTR 105: INTRODUCTION TO ACTING I

3 credits. Prerequisite: none.

Examines fundamentals of stage acting with special emphasis on improvisation. Introduces the principles that govern the performing environment. Speech and vocal skills as well as theatrical movement will be stressed. Emphasis is on the preparation aspect of acting rather than on performance.

THTR 176: MUSICAL THEATRE WORKSHOP I

2-3 credits. Prerequisite: none.

Performance of musical theatre productions. May be repeated to a maximum of nine credits. Same as MUS 176.

THTR 180: CINEMA AS ART AND COMMUNICATION

3 credits. Prerequisite: none.

Surveys cinema in its diverse forms. Course uses films to show historical and stylistic influences on the aesthetic values and social implications of cinema.

THTR 199: PLAY STRUCTURE AND ANALYSIS I

3 credits. Prerequisite: none.

Introduces major figures, events and ideas in theatre and dramatic literature from its origins to the present. Read, analyze and discuss representative plays.

THTR 204: THEATRE TECHNOLOGY I

3 credits. Prerequisite: none.

Introduces the backstage world of the theatre by the study of lighting and sound systems and of technical stage riggings. Students will gain practical experience by serving as the crew for a college theatrical production.

THTR 205: INTRODUCTION TO ACTING II

3 credits. Prerequisite: none.

Continues acting principles presented in Introduction to Acting I with an emphasis on the classics.

THTR 209: THEATRE PRACTICUM

2-3 credits. Prerequisite: none.

Offers practical experience in stage productions.

THTR 276: MUSICAL THEATRE WORKSHOP II

3 credits. Prerequisite: THTR 176 or MUS 176

Continues skills learned in THTR 176 or MUS 176. Offers a workshop in the techniques of musical theatre. May be repeated to a maximum of nine credits. Same as MUS 176.

WOMEN'S STUDIES

DEPARTMENT CODE: WS

WS 101: INTRODUCTION TO WOMEN'S STUDIES

3 credits. Prerequisite: none.

Introduces the methods and concerns of women's studies drawing from history, psychology, sociology, law and language concerns.

WOODWORKING

DEPARTMENT CODE: WOOD

WOOD 197B: BEGINNING WOODWORKING

3 credits. Prerequisite: none.

Covers tool identification and uses, tool and machine safety, project design, gluing, laminating, mechanical drawings and sketches of three views.

WOOD 221B: ADVANCED WOODWORKING

3 credits. Prerequisite: none.

Continues the skills learned in WOOD 197B. The course is designed to meet the individual needs of the student through advanced woodworking construction practices which will be employed on an individual student need basis.

WOOD 250B: WOODSHOP PROJECTS

3 credits. Prerequisite: consent of instructor.

Permits students to pursue special projects and/or explore areas of specific interest.

FACULTY & ADMINISTRATION

UNIVERSITY & COMMUNITY COLLEGE SYSTEM OF NEVADA

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Dr. Jack Lund Schofield: *Las Vegas*

Douglas R. Seastrand: *Las Vegas*

Steve Sisolak: *Las Vegas*

Bret Whipple: *Las Vegas*

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ADMINISTRATION

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Assistant to the President

BONNIE BERTOCCHI

Vice President of Academic and Student Affairs

CONNIE CAPURRO

Vice President of Finance and Administrative Services

DANE APALATEGUI

Vice President of Institutional Advancement

HELAINE JESSE

Dean of the Fallon Campus and Rural Development

BUS SCHARMANN

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DR. DOUG BENOIT

Dean of Student Services

DANIEL NEVERETT

Douglas Campus Coordinator

DICK KALE

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Business, Trade & Industry, and Computer Technology

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Communication and Fine Arts

MICHON MACKEDON

Nursing and Allied Health

DR. JUDITH CORDIA

Science, Mathematics and Engineering

DR. MICHAEL HARDIE

Social Science, Education, Humanities & Public Service

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Sandy Tiscareno

Zip Upman

Shirley Walker

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Jim Carter

Jim Dakin

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FACULTY & ADMINISTRATION

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B.S., Business Administration/Finance, University of Nevada, Reno; M.A., Counseling and Educational Psychology, University of Nevada, Reno. Nevada Regents Outstanding Academic Advisor - 1999. Instructor of the Year-2003. Lead Faculty for Social Science, Education, Humanities, Public Service Division. At WNCC since 1987.

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B.A., Social Science, The Ohio State University; M.S.W., Social Work, California State University, Sacramento; LCSW, ACSW. Outstanding Faculty Member - 1996. Nevada Regents Academic Advisor Award - 2000. WNCC President's Award for Administrative Faculty Excellence - 2002. At WNCC since 1989.

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B.A., English, Michigan State University; M.F.A., Creative Writing, University of Iowa; Ph.D., English, University of Detroit. At WNCC since 1993.

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FACULTY & ADMINISTRATION

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B.S.N., Nursing, University of Rochester; M.S.N., Nursing, State University of New York at Buffalo; Ed.D., Nova Southeastern University. At WNCC since 2002.

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A.A., Law Enforcement, Santa Rosa Junior College; B.S., Criminal Justice, San Jose State University; M.P.A., Public Administration, Golden Gate University. Instructor of the Year - 1992. At WNCC since 1990.

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SONGHAI LIU

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B.S., Electrical Engineering, Harbin Institute of Technology, P.R. China; M.S., Electrical Engineering, University of Nevada, Reno. At WNCC since 1997.

MICHAEL LONG

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VICKI LOSEKE

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B.A., Physics and Mathematics, State University of New York at Binghamton (SUNY); M.A., Physics, State University of New York at Binghamton (SUNY); Ph.D., Physics, Brown University. At WNCC since 1999.

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**Chair, Division of Communication and Fine Arts/
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B.A., History, University of Nevada, Reno; M.A.T.E., English, University of Nevada, Reno. Outstanding Faculty Member - 1993. Instructor of the Year - 1996 & 1999. At WNCC since 1982.

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B.S., Electronics Education, Northern Montana College; M.S., Vocational Education, Northern Montana College. At WNCC since 1997.

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B.S., Biology, University of Nevada, Reno; M.S., Biology, University of Nevada, Reno. At WNCC since 1990.

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FACULTY & ADMINISTRATION

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EUGENE MARTIN

Construction Technology Instructor

A.S., Project Management, Western Nevada Community College; certification, Professional Land Surveyor, State of Nevada Board of Registered Professional Engineers and Land Surveyors; license, Nevada State Contractors Board. At WNCC since 2004.

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B.A., Social Science, University of Northern Iowa; M.A., History, Western Michigan University. At WNCC since 1979.

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B.S., Psychology, Northwest Missouri State University; M.A., Library Science, University of Missouri. At WNCC since 1996.

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Community College Professor of Developmental Mathematics

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B.A., Political Science and Sociology, Hamline University; M.A., Criminal Justice, George Washington University; J.D., Law, Gonzaga University. At WNCC since 2003.

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B.A., English, University of Tulsa; M.B.A., University of Nevada, Reno. At WNCC since 2003.

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B.S., Computer Science, Franklin Pierce College, New Hampshire. At WNCC since 2002.

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Coordinator of Counseling

A.A., General Education, Hartnell Community College; B.A., Social Work, Sacramento State University; M.A., Counseling, Chapman College. Board of Regents' Outstanding Academic Advisor - 2001. At WNCC since 1981.

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Dean of Student Services

B.S., Library Science, State University of New York, Geneseo; M.S., Library Science, State University of New York, Geneseo; M.S., Counseling and Student Personnel Services, State University of New York, Albany. At WNCC since 2004.

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Coordinator of Tech Prep

Attended National University of Nicaragua. At WNCC since 1996.

FACULTY & ADMINISTRATION

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Nevada Police Officers Standards and Training (POST); Louisiana Police Officers Standards and Training (POST). At WNCC since 2000.

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A.A., Technical Science, Orange Coast Community College; B.S., Biological Sciences, University of California at Irvine; M.S., Biochemistry, University of California at Los Angeles. Regents' Academic Advisor Award - 2002. At WNCC since 1979.

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B.A., Mathematics, Pacific Union College; M.S., Computer Science, University of Nevada, Reno; M.B.A., Business Administration, University of Nevada, Reno. Outstanding Faculty Member - 2000. At WNCC since 1989.

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Librarian

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FACULTY & ADMINISTRATION

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JOHN YURTINUS

Community College Professor of History

B.S., Education, Kent State University; M.A., History, Kent State University; Ph.D., History, Brigham Young University. Instructor of the Year - 1994. At WNCC since 1980.

TERI ZUTTER

Director of Adult Basic Education Program

A.G.S., General Studies, Western Nevada Community College; A.A., Arts, Western Nevada Community College; B.A., Humanities, Sierra Nevada College. At WNCC since 1992 (part-time); 2000 (full-time).

PART-TIME FACULTY

Information regarding part-time faculty is available from deans at various campus and teaching center locations.

RULES & SANCTIONS

WNCC STUDENT GRIEVANCE PROCEDURE

Any student who believes he/she has suffered an academic injustice may implement the following grievance procedure:

1. Formal grievance procedures are initiated only after informal attempts have been found unsatisfactory in reaching a just solution. A grievance must be filed in writing to the appropriate dean within 30 instructional days of the alleged infraction.
2. Members of a grievance committee will be selected by the appropriate dean. This committee will consist of the appropriate dean, two faculty members, one student and one representative from student government, and may also include a classified employee.
3. The student and involved parties will be given the opportunity to present their case in a formal hearing to the selected grievance committee.
4. The committee will then recommend a course of action to the vice president for Academic and Student Affairs.
5. The student will receive written notification from the vice president for Academic and Student Affairs of the final decision.

RULES & SANCTIONS

The following rules and sanctions are from the University and Community College System of Nevada Code. Because Western Nevada Community College is part of the Nevada higher education system, all rules and sanctions apply. They, along with an explanation of the procedures for their administration, a description of the responsibilities of the administrative officers, and conditions for hearings, are located in a booklet entitled "Rules and Disciplinary Procedures for Members of the University Community" which may be obtained at the Admissions Office.

The administrative officer for these rules and procedures at Western Nevada Community College is the president.

THE UNIVERSITY & COMMUNITY COLLEGE SYSTEM OF NEVADA PROHIBITS:

1. Any acts interfering with academic freedom.
2. The use of, or threat to use, force or violence against any member or guest of the UCCSN community, except when lawfully permissible.
3. Interference by force, threat or duress with the lawful freedom of movement of persons or vehicles on UCCSN premises.
4. The intentional disruption or unauthorized interruption of functions of the UCCSN, including but not limited to classes, convocations, lectures, meetings, and recruiting interviews, on or off UCCSN property.
5. Willful damage, destruction, defacement, theft or misappropriation of property belonging to the University and Community College System of Nevada or to a member of the UCCSN community.
6. Knowing possession on any university system premises of any firearms, explosives, dangerous chemicals, or other instruments of destruction, or other dangerous weapons as defined by laws of the state of Nevada, without written authorization of the chief administrative officer of the campus or his/her authorized agent unless such possession relates to duly recognized functions by appropriate members of the faculty, staff or students.
7. Continued occupation of buildings, structures, or grounds belonging to the UCCSN after having been ordered to leave by the president of the institution or the designated chief campus officer present.
8. Forgery, alteration or destruction of system documents or furnishing of false information in documents submitted to the University and Community College System of Nevada.

9. Making intentionally false accusations against any member of the UCCSN community by the filing of a complaint or charges under these rules.

10. The repeated use of obscene or abusive language in a classroom or public meeting where such usage is beyond the bounds of generally accepted good taste and which, if in a class, is not significantly related to the teaching of the subject matter.

11. Willful incitement of persons to commit any of the acts herein is prohibited.

12. Disorderly, lewd or indecent conduct occurring on or off-campus at a UCCSN recognized or UCCSN-sponsored activity.

13. Any act prohibited by local, state or federal law which occurs on a UCCSN campus or at a UCCSN-sponsored function.

14. The use of threats of violence against a faculty member or his/her family to secure preferential treatment for grades, loans, employment or any other UCCSN service or privilege.

15. Any act of unlawful discrimination based on race, creed, color, sex, age, handicap or national origin.

16. Any act of sexual harassment when submission to a request or demand of a sexual nature is either an explicit or implicit term or condition of employment or academic grading, or where verbal or physical conduct of a sexual nature has the effect of creating an intimidating, offensive or hostile work or classroom environment.

17. Acts of academic dishonesty, including but not limited to, cheating, plagiarism, falsifying research data or results, or assisting others to do the same.

18. Willfully destroying, damaging, tampering, altering, stealing, misappropriating or using without permission any system, program or file of the system.

19. Any other conduct which violates applicable state policies or rules of the divisions of the system.

UNIVERSITY & COMMUNITY COLLEGE SYSTEM OF NEVADA SANCTIONS

1. Warning: Notice, oral or written, that continuation or repetition, within a stated reasonable period of time, of conduct found wrongful may be the cause for more severe disciplinary action.

2. Reprimand: Formal censure or severe reproof administered in writing to someone engaging in prohibited conduct.

3. Restitution: The requirement to reimburse the legal owner for loss due to defacement, damage, or misappropriation of funds or property.

4. Probation for Students: A trial period not exceeding one year. Probation may include exclusion from participation in privileged or extracurricular UCCSN activities. The person placed on probation shall be notified, in writing, that repetition of the act or other acts prohibited by these rules will lead to more severe sanctions. The official transcript of the student shall be marked "Disciplinary Probation" for the period of the probation and any exclusions noted.

5. Suspension for Students: Exclusion for a definite period of time from attending classes and participating in other UCCSN activities as set forth in a notice to the student. The official transcript of the student shall be marked "Disciplinary Suspension Effective." A student who is not currently enrolled at the college and who graduated at the end of the previous semester may request that the notation of the disciplinary suspension be removed from his/her permanent record when two years have elapsed since the expiration of the student's suspension. Such request must be submitted in writing to the college president. If the request is not granted, the student may submit another request after one year.

6. Suspension for Employees: Exclusion from assigned duties with or without pay for a specified time period.

RULES & SANCTIONS

7. Expulsion for Students: Termination of student status for an indefinite period of time. Permission of the college president shall be required for readmission. The official transcript of the student shall be marked "Disciplinary Expulsion Effective."

USE OF SOCIAL SECURITY NUMBERS

The Family Educational Rights and Privacy Act of 1974 as Amended requires that when any federal, state, or local government agency requests an individual to disclose his/her Social Security number, that individual must also be advised whether that disclosure is mandatory or voluntary, by what statutory or other authority the number is solicited and what use will be made of it.

Students have the option of utilizing a Social Security number or student identification number assigned by the college. The number is used to verify the identity of the applicant and as an identifier on student records throughout the enrollment periods of the student to accurately record necessary data.

RESIDENCY REGULATIONS

It is the intent of the Board of Regents to apply these regulations effective immediately. The application of these regulations shall not affect the status of any student now classified as an in-state student. Any person who is now classified as an out-of-state student, but who, under these regulations, is eligible for reclassification as an in-state student, shall, upon application, become eligible for such classification at the time of the next registration period. No reclassification under these regulations shall give rise to any claim for refund of tuition already paid to the UCCSN.

RULES FOR DETERMINING STATUS

1. Except as provided otherwise in this section, a dependent person whose family or legal spouse, or legal guardian is a bona fide resident of the state of Nevada at the date of matriculation.
2. Except as provided otherwise in this section, a financially independent person outside the state of Nevada, if the person himself or herself is a bona fide resident of the state of Nevada for at least six (6) months immediately prior to the date of matriculation.
3. A financially independent person, and/or the person's spouse, who has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business of Nevada.
4. A former member of the armed forces of the United States, who has relocated from Nevada as a result of a permanent change of duty station pursuant to military orders, will be considered a Nevada resident for tuition purposes under the following conditions:
 - A) He/She was a resident of Nevada prior to leaving the state as a member of the armed forces;
and
 - B) He/She maintained his/her Nevada residency while a member of the armed forces;
and
 - C) He/She returns to the state of Nevada within one year of leaving the armed forces.It will be necessary for the student to supply documentation in support of each of these conditions.
5. Licensed educational personnel employed full-time by a public school district in Nevada, or the spouse or dependent child of such an employee.
6. A teacher who is currently employed full-time by a private el-

ementary, secondary or post-secondary educational institution whose curricula meet the requirements of NRS 394.130, or the spouse or dependent child of such an employee.

7. A professional or classified employee, post doctoral fellow, resident physician, or resident dentist of the University and Community College System of Nevada, currently employed at least half-time, or the spouse or dependent child of such an employee.
8. A graduate student enrolled in the University and Community College System of Nevada and employed by the System in support of its instructional or research programs, only during the period of time of such employment.
9. An alien who has become a Nevada resident by establishing bona fide residence in Nevada and who holds a permanent immigrant visa, or has been granted asylum or refugee status, or has been issued a temporary resident alien card, or holds an approved immigration petition as a result of marriage to a U.S. citizen. An alien holding another type of visa shall not be classified as a resident student, except as may be required by federal law or court decisions and upon due consideration of evidence of Nevada residence.
10. For tuition purposes only, a student enrolled in the University Studies Abroad Consortium or in the University of Nevada, Las Vegas or the University of Nevada, Reno through the National Student Exchange Program and only during the period of time of such enrollment. Time spent in Nevada while a student is in the National Student Exchange Program shall not be counted towards satisfying the residence requirement of paragraph two above, nor shall enrollment through the Consortium or the Exchange Program be included in the date of matriculation, for evaluation of residency.
11. Members of federally recognized Native American tribes who do not otherwise qualify as Nevada residents, and who currently reside on tribal lands located wholly or partially within the boundaries of the State of Nevada.
12. An enrollee or graduate of a Nevada high school.
13. A resident student who was enrolled at an institution of the University and Community College System of Nevada who remains continuously enrolled in the system while working for the student's degree.

DETERMINATION OF STATUS

Each institution of the University and Community College System of Nevada affected shall implement these regulations through the Admissions Office on each campus, under the direction of the president. The president of each institution shall establish an appellate procedure whereby the student may appeal decisions of the Admissions Office concerning tuition or his/her status as an in-state or out-of state student to an appellate board, which will hear evidence and make a final determination. The student may appeal the decision to the appellate board within 30 days from the final determination by the Admissions Office. In the event the appeal is not taken within the time, the decision of the Admissions Office shall be final for that school term.

EXCEPTIONAL CASES

In exceptional cases where the application of these regulations causes an injustice to an individual who technically does not qualify as an in-state student, but whose status, either because of the residence of the student or his/her family is such as to fall within the general intent of these regulations, then the appellate board shall have the jurisdiction to recommend that such student be classified as an in-state student. If the recommendation is approved by the president, the student shall be so classified. The intent of this provision only applies in the infrequent, exceptional case where a strict application of these regulations results in an obvious injustice.

RULES & SANCTIONS

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974 AS AMENDED

WNCC informs students of the Family Educational Rights and Privacy Act of 1974 as Amended (FERPA) through the catalog and the schedule of classes bulletin. FERPA was enacted to protect the privacy of permanent educational records and to provide guidelines for the correction of inaccurate or misleading data. This does not include challenging the fairness of a grade; FERPA cannot be used to force a grade change.

No one shall have access to, nor will WNCC disclose any information from a student's education records without the written consent of the student. Information may be disclosed to staff performing an assigned college function, authorized representatives from federal and state agencies, officials of other institutions in which the student seeks to enroll, accrediting agencies carrying out their accreditation functions, persons in compliance with a judicial order, officials providing student financial aid, the audit firm retained by the University and Community College System of Nevada, the data warehouse for the UCCSN or designated institutional research personnel, any agencies engaged by WNCC to act on its behalf and persons in an emergency to protect the health and/or safety of students, or other persons.

WNCC has designated name, city, state, residency status, full-time/part-time status, graduation date, major/degree and academic honors as directory information. Students may have directory information withheld by filing a petition in the Admissions and Records Office. To revoke the petition, the student must do so in writing and file the revocation with the Admissions and Records Office. WNCC will not provide telephone numbers, street addresses or class schedules to outside inquiries. WNCC does not provide message services; students should make other arrangements. All requests for student information must be submitted to the Admissions and Records Office in writing. Please check with the Admissions and Records Office for additional information.

FERPA provides a student with the right to inspect and review information in his/her education records, the right to seek to amend education records and the right to have some control over the disclosure of information from education records. If the student disagrees with some information in his/her education record, he/she may challenge that information. If the situation is not resolved to the student's satisfaction, the student may request a hearing. If the student disagrees with the results of the hearing, he/she may submit explanatory statements for inclusion in his/her file. For more information, contact the Admissions and Records Office at WNCC.

FINANCIAL ASSISTANCE continued from page 15:

ELIGIBILITY CRITERIA

Financial aid may be available in the form of grants, loans, scholarships, and student employment. These programs are regulated by federal (Title IV), state, and campus guidelines. In general, the elements of eligibility requirements which include, but are not limited to the following:

- be a U.S. citizen or an eligible noncitizen with appropriate documentation.
- be a regular student enrolled in an eligible program.
- be registered with Selective Service (if required).
- have earned a high school diploma or its recognized equivalent (GED).
- be working toward an approved degree or certificate.
- file a statement of educational purpose.
- be making satisfactory academic progress.
- not owe a refund of, or, be in default on Title IV funds and sign a certification to that effect.
- have financial need (except for unsubsidized Stafford Loans).
- not have borrowed in excess of loan limits.
- provide a verified Social Security number.
- not have property subject to a judgment lien for a debt owed to the United States.

TYPES OF AID GRANTS

Grants are a type of gift aid from the federal government, state, or the college that does not require repayment. These awards are most often awarded to students who have financial need. Western Nevada Community College participates in several need-based federal and state funded grant programs, including the Federal Pell Grant, Supplemental Educational Opportunity Grant, Leap Grants, etc.

LOANS

Educational loans are types of financial aid that must be repaid and will include any accrued interest. Subsidized Stafford Loans are "need based." The federal government pays the interest to the lender while students are enrolled at least half time, during the "grace period" and authorized periods of deferment. Interest accrues when students enter repayment. Unsubsidized Stafford Loans are not based on need. The loan principal is deferred, but students pay the interest monthly or quarterly while enrolled, or may defer the interest and add it to the loan principal. This is known as "interest capitalization."

MILLENNIUM SCHOLARSHIP

In 1999, Gov. Kenny Guinn's Millennium Scholarship initiative was enacted into law by the Nevada Legislature. Each Millennium Scholarship is worth up to \$10,000.

A student attending WNCC and using his or her Millennium Scholarship must enroll in a minimum of six credits and will receive a maximum of six credits and will receive a maximum of \$40 per credit hour. Contact the Office of the State Treasurer for specific information and all eligibility criteria at: <http://nevadatreasurer.com/millennium/>.

RULES & SANCTIONS

SCHOLARSHIPS

Scholarships are typically merit based awards that do not have to be repaid. Scholarships are funded from a variety of sources, such as Western Nevada Community College, private businesses, tribes, clubs, organizations, etc. A separate application is necessary to be eligible for these funds. Students are encouraged to actively search out scholarships, be aware of deadlines and apply early. WNCC has an institutional scholarship deadline of July 15.

For more information on scholarships, visit the WNCC web site at www.wncc.edu, click on Financial Aid. Students are also encouraged to also complete the FAFSA to establish financial need and explore eligibility for Title IV aid.

STUDENT EMPLOYMENT

Employment opportunities may include the Federal Work-Study, Regents Awards Program, and the Nevada Student Employment Program. Employment can be on or off campus (Carson City, Fallon, and Douglas) and work hours can be arranged according to class schedules. These student employment positions provide students with valuable work experience. For those who qualify for need-based financial aid, these opportunities allow students to earn money while enrolled in school to help pay for education expenses. These awards will not disburse in a lump sum, but through bi-weekly paychecks for hours actually worked. Because work is required for this type of financial aid, employment is considered a form of self-help aid. To be considered for these student employment programs, students must complete the FAFSA.

HOW TO APPLY

To apply for financial aid, complete the WNCC Student Financial Assistance Data Form and the *Free Application for Federal Student Aid* (FAFSA). The FAFSA application is used to determine eligibility for both state and federal assistance programs. When completing the FAFSA, you will need to know WNCC's Title IV code number, which is 013896.

The FAFSA is usually available by January for the following academic year. Many types of funding in this section are limited and may run out, so applying early is important. The fastest way to complete a FAFSA is on the web at www.fafsa.ed.gov/.

You'll need a PIN to apply online

If you don't have a PIN from the Department of Education, you will want to get one. This is not the same as the WNCC college pin number that you use to register for classes. A Department of Education PIN allows you to electronically "sign" your FAFSA application, which reduces processing time. For those students under the age of 24, you may also need your parents to sign your FAFSA form. In this case, your parents can also request a PIN, since they must sign for any information they enter electronically. Request a PIN at this site: pin.ed.gov/.

To be considered for financial aid you must submit the proper forms and meet all deadlines. Students should keep in mind that applying for and receiving financial aid is a lengthy and, at times, a complicated process. Timing is important; the earlier you act, the earlier we can notify you about your eligibility for assistance. Students should allow at least 45 days before the semester begins to complete the application process.

Financial aid is based on the number of credits a student enrolls in, as indicated on the student's financial aid application form. If a student enrolls in a number of credits different than what is listed on the award letter, the student's file may need to be reprocessed and there may be a delay in the student's receipt of financial aid.

REINSTATEMENT-APPEAL PROCEDURE

A student who is notified that he/she has been placed on suspension status may appeal for reinstatement of assistance. The student must complete a **Financial Assistance Appeal Form** obtainable from the Office of Financial Assistance or on the college web site. The appeal must be based on circumstances beyond the student's control such as death in the family, illness, an unforeseen emergency or extenuating circumstances. The appeal will be reviewed by the Financial Assistance Appeals Committee and all decisions are final.

SATISFACTORY ACADEMIC PROGRESS

Students receiving federal or state financial assistance must maintain satisfactory academic progress to remain eligible for such assistance. At a minimum, a student must satisfactorily complete 67 percent of all classes attempted each semester and the cumulative completion rate must be 67 percent or higher. Students must also maintain a minimum cumulative grade point average of 2.0, a "C" average. The student must be enrolled as a "regular student" in an approved degree or certificate program, declare a specific degree or certificate objective and satisfy the above mentioned minimum credit completion and grade point requirements.

A student must complete a degree or certificate program within a reasonable length of time. A maximum of 90 attempted credits is allowed for financial assistance including credits from other schools whether aid is received or not. Completion of less than 67 percent of the semester or cumulative courses attempted will result in suspension of aid eligibility. A complete explanation of the Western Nevada Community College Financial Assistance Standards of Satisfactory Academic Progress is available to every student on the web page. Questions about the Standards of Progress may be directed to the Financial Assistance Office at any time.

STUDENT RESPONSIBILITIES

Students receiving financial aid from WNCC are required to accept certain responsibilities to receive their aid package and/or maintain eligibility for continued aid awards.

- **Enrollment:** Students must be enrolled in an approved degree program. Any changes (higher or lower) in number of credits will result in the financial aid award not being disbursed.
- **Full-Time:** If a student's award is based on full-time enrollment, the student must maintain 12 or more credits.
- **3/4 Time:** If a student's award is based on three-quarter time enrollment, the student must maintain 9-11 credits.
- **1/2 Time:** If a student's award is based on half-time enrollment, the student must maintain 6-8 credits.
- **Less Than 1/2 Time:** If a student's award is based on less than half-time enrollment, the student must maintain 1-5 credits.

RULES & SANCTIONS

Change of Status - Students are required to notify the Financial Assistance Office in writing of any event that may alter their financial status such as change in marital status, receipt of additional educational benefits or acceptance of a scholarship. If it is determined that a student received money that exceeded his/her eligibility, the student is liable for repayment of the over-awarded amount.

Students should notify the Admissions and Records Office of any changes in name, address, phone number or educational goal/major. This will ensure that the student receives all correspondence from the college, and meets financial aid requirements.

Proper Use of Funds - Financial aid funds are to be used for educationally related expenses only. Direct educational costs are tuition, fees, books and supplies. Indirect educational costs include expenses for room and board, transportation and other applicable living expenses incurred while attending Western Nevada Community College.

STUDENTS RIGHTS

- Students have an equal opportunity to receive financial assistance. After making proper application, students are entitled to expect an equitable determination for eligibility of available funds. Each student's application is individually reviewed using the same evaluation criteria.
- Students have a right to have access to information about all types of aid available at Western Nevada Community College, minimum requirements for eligibility and the academic programs available.
- Students have a right to information regarding repayment schedules and interest rates for loans. This information is available in financial aid publications, but it is still important for students to read their own promissory note carefully before signing, including e-signing.
- Students have the right to appeal decisions made by the Financial Assistance Office to the Financial Assistance Appeals Committee.

SEXUAL HARASSMENT POLICY

A. Sexual harassment is illegal under federal and state law. The University and Community College System of Nevada is committed to providing a place of work and learning free of sexual harassment. Where sexual harassment is found to have occurred, the UCCSN will act to stop the harassment, to prevent its recurrence, and to discipline those responsible in accordance with the UCCSN Code or, in the case of classified employees, the Nevada Administrative Code. Sexual harassment is a form of discrimination; it is illegal.

No employee or student, either in the work place or in the academic environment, should be subject to unwelcome verbal or physical conduct that is sexual in nature. Sexual harassment does not refer to occasional compliments of a socially acceptable nature. It refers to behavior of a sexual nature that is not welcome, that is personally offensive, and that interferes with performance.

It is expected that students, faculty and staff will treat one another with respect.

B. Policy applicability and sanctions: All students, faculty, staff, and other members of the campus community are subject to this policy. Individuals who violate this policy are subject to discipline up to and including termination and/or expulsion, in accordance with the UCCSN Code or, in the case of classified employees, the Nevada Administrative Code. Other, lesser sanctions may be imposed, depending on the circumstances.

This policy is not intended to and does not infringe upon academic freedom in teaching or research as established in the UCCSN Code, Ch. 2.

C. Training: All employees shall be given a copy of this policy and each institution's Human Resources Office shall maintain documentation that each employee received the policy. New employees shall be given a copy of this policy at the time of hire and each institution's Human Resources Office shall maintain documentation that each new employee received the policy.

Each institution shall include this policy and complaint procedure in its general catalog.

Each institution shall have an ongoing sexual harassment training program for employees.

D. Sexual harassment defined: Under this policy, unwelcome sexual advances, requests for sexual favors, and other visual, verbal or physical conduct of a sexual nature constitute sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic status;

2. submission to or rejection of the conduct is used as a basis for academic or employment decisions or evaluations, or permission to participate in an activity; or

3. the conduct has the purpose or effect of substantially interfering with an individual's academic or work performance, or of creating an intimidating, hostile or offensive environment in which to work or learn.

RULES & SANCTIONS

Sexual harassment may take many forms—subtle and indirect, or blatant and overt. For example,

- It may occur between individuals of the opposite sex or of the same sex.
- It may occur between students, between peers and/or co-workers, or between individuals in an unequal power relationship.
- It may be aimed at coercing an individual to participate in an unwanted sexual relationship or it may have the effect of causing an individual to change behavior or work performance.
- It may consist of repeated actions or may even arise from a single incident if sufficiently severe.
- It may also rise to the level of a criminal offense, such as battery or sexual assault.

Determining what constitutes sexual harassment under this policy will be accomplished on a case by case basis and depends upon the specific facts and the context in which the conduct occurs. Some conduct may be inappropriate, unprofessional, and/or subject to disciplinary action, but would not fall under the definition of sexual harassment. The specific action taken, if any, in a particular instance depends on the nature and gravity of the conduct reported, and may include disciplinary processes as stated above.

Examples of unwelcome conduct of a sexual nature that may constitute sexual harassment may, but do not necessarily, include, and are not limited to:

- physical assault;
- sexually explicit statements, comments, questions, jokes, innuendoes, anecdotes, or gestures;
- unnecessary touching, patting, hugging, or brushing against a person's body or other inappropriate touching of an individual's body;
- remarks of a sexual nature about a person's clothing or body;
- use of electronic mail or computer dissemination of sexually oriented, sex-based communications;
- sexual advances, whether or not they involve physical touching;
- requests for sexual favors in exchange for actual or promised job or educational benefits, such as favorable reviews, salary increases, promotions, increased benefits, continued employment, grades, favorable assignments, letters of recommendation;
- displaying sexually suggestive objects, pictures, magazines, cartoons, or screen savers;
- inquiries, remarks, or discussions about an individual's sexual experiences or activities and other written or oral references to sexual conduct.

Even one incident, if it is sufficiently serious, may constitute sexual harassment. One incident, however, does not usually constitute sexual harassment.

E. Procedure: The chancellor and each president shall designate no fewer than two administrators to receive complaints of alleged sexual harassment. The administrators designated to receive the complaints may include the following: (1) the Human Resources officer at the institution; (2) the Affirmative Action Program officer; or (3) any other officer designated by the president. If the Human Resources officer or the Affirmative Action Program officer or another officer designated by the president, is not the individual who initially receives the complaint of alleged sexual harassment, then the individual receiving the complaint must immediately forward the complaint to either the Human Resources officer or the Affirmative Action Program officer.

An individual filing a complaint of alleged sexual harassment shall have the opportunity to select an independent advisor for assistance, support, and advice and shall be notified of this opportunity by the Human Resources officer or the Affirmative Action Program officer, or by their designee. It shall be the choice of the individual filing the complaint to utilize or not utilize the independent advisor. The independent advisor may be brought into the process at any time at the request of the alleged victim. The means and manner by which an independent advisor shall be made available shall be determined by each institution or unit.

Supervisors' responsibilities: Every supervisor has responsibility to take reasonable steps intended to prevent acts of sexual harassment, which include, but are not limited to:

- Monitoring the work and school environment for signs that harassment may be occurring;
- Refraining from participation in or encouragement of actions that could be perceived as harassment (verbal or otherwise);
- Stopping any observed acts that may be considered harassment, and taking appropriate steps to intervene, whether or not the involved individuals are within his/her line of supervision; and
- Taking immediate action to minimize or eliminate the work and/or school contact between the two individuals where there has been a complaint of harassment, pending investigation.

If a supervisor receives a complaint of alleged sexual harassment, or observes or becomes aware of conduct that may constitute sexual harassment, the supervisor must immediately contact one of the individuals identified above to forward the complaint, to discuss it and/or to report the action taken.

Failure to take the above action to prevent the occurrence of or stop known harassment may be grounds for disciplinary action.

Complaints of sexual harassment must be filed within 180 calendar days after the discovery of the alleged act of sexual harassment with the supervisor, department chair, dean, or one of the administrators listed above and/or designated by the president to receive complaints of alleged sexual harassment. Complaints of prohibited conduct, including sexual harassment, filed with an institution's administrative officer pursuant to UCCSN Code Chapter 6, Section 6.8.1, are not subject to this 180-day filing requirement.

RULES & SANCTIONS

1. Employees:

a. An employee who believes that he or she has been subjected to sexual harassment by anyone is encouraged—but it is neither necessary nor required—to promptly tell the person that the conduct is unwelcome and ask the person to stop the conduct. A person who receives such a request must immediately comply with it and must not retaliate against the employee for rejecting the conduct.

b. The employee may also choose to file a complaint with his or her immediate supervisor, who will in turn immediately contact one of the officials listed above.

c. If the employee feels uncomfortable about discussing the incident with the immediate supervisor, the employee should feel free to bypass the supervisor and file a complaint with one of the other listed officials or with any other supervisor.

d. After receiving any employee's complaint of an incident of alleged sexual harassment, whether or not the complaint is in writing, the supervisor will immediately contact any of the individuals listed above to forward the complaint, to discuss it and/or to report the action taken. The supervisor has a responsibility to act even if the individuals involved are not supervised by that supervisor.

2. Students:

a. A student who believes that he or she has been subjected to sexual harassment by anyone is encouraged—but it is neither necessary nor required—to promptly tell the person that the conduct is unwelcome and ask the person to stop the conduct. A person who receives such a request must immediately comply with it and must not retaliate against the student for rejecting the conduct.

b. The student may also choose to file a complaint with his or her major department chair, who will in turn immediately contact one of the officials listed above.

c. If the student feels uncomfortable about discussing the incident with the department chair, the student should feel free to bypass the chair and file a complaint with one of the above officials or to any chair or dean, who will in turn immediately contact one of the officials listed above to forward the complaint, whether or not the complaint is in writing, to discuss it and/or to report the action taken. The chair or dean has a responsibility to act even if the individuals are not supervised by that chair or dean.

3. Non-Employees and Non-Students: Individuals who are neither UCCSN employees nor UCCSN students and who believe they have been subjected to sexual harassment by a UCCSN employee during the employee's work hours or by a UCCSN student on campus or at a UCCSN-sponsored event may utilize any of the complaint processes set forth above in this section.

4. Investigation and Resolution:

a. After receiving a complaint of the incident or behavior, an investigation by one of the above listed officials will be initiated to gather information about the incident. Each institution may set guidelines for the manner in which an investigation shall be conducted.

b. At the completion of the investigation, a recommendation will be made to the appropriate management regarding the resolution of the matter. The recommendation is advisory only.

c. After the recommendation has been made, a determination will be made by appropriate management regarding the resolution of the matter. If warranted, disciplinary action up to and including involuntary termination or expulsion will be taken. Any such disciplinary action shall be taken in accordance with UCCSN Code Chapter 6, or, in the case of classified employees, NAC Chapter 284. Other appropriate actions will be taken to correct problems, if any, caused by or contributing to the conduct. If proceedings are initiated under Chapter 6, the investigation conducted pursuant to this policy may be used as the Chapter 6 investigation. The administrative officer, in his or her discretion, may also supplement the sexual harassment investigation with additional investigation.

d. After the appropriate management has made a determination regarding the resolution of the matter, and depending on the circumstances, both parties may be informed of the resolution. Certain actions made confidential under UCCSN Code Chapters 5 and 6 or NAC Chapter 284 shall remain confidential.

F. Prompt Attention: Complaints of sexual harassment are taken seriously and will be dealt with promptly. Where sexual harassment is found to have occurred, the UCCSN institution or unit where it occurred will act to stop the harassment, to prevent its recurrence, and to discipline those responsible.

G. Confidentiality: The UCCSN recognizes that confidentiality is important. However, confidentiality cannot be guaranteed. The administrators, faculty or staff responsible for implementing this policy will respect the privacy of individuals reporting or accused of sexual harassment to the extent reasonably possible and will maintain confidentiality to the extent possible. Examples of situations where confidentiality cannot be maintained include, but are not limited to, necessary disclosures during an investigation, circumstances where the UCCSN is required by law to disclose information (such as in response to legal process), or when an individual is in harm's way.

H. Retaliation: Retaliation against an individual who in good faith complains of alleged sexual harassment or provides information in an investigation about behavior that may violate this policy is against the law, will not be tolerated, and may be grounds for discipline. Retaliation in violation of this policy may result in discipline up to and including termination and/or expulsion. Any employee or student bringing a sexual harassment complaint or assisting in the investigation of such a complaint will not be adversely affected in terms and conditions of employment and/or academic standing, nor discriminated against, terminated, or expelled because of the complaint. Intentionally providing false information is also grounds for discipline.

RULES & SANCTIONS

“Retaliation” may include, but is not limited to, such conduct as:

- the denial of adequate personnel to perform duties;
- frequent replacement of members of the staff;
- frequent and undesirable changes in the location of an office;
- the refusal to assign meaningful work;
- unwarranted disciplinary action;
- unfair work performance evaluations;
- a reduction in pay;
- the denial of a promotion;
- a dismissal;
- a transfer;
- frequent changes in working hours or workdays;
- an unfair grade;
- an unfavorable reference letter.

I. Relationship to Freedom of Expression: The UCCSN is committed to the principles of free inquiry and free expression. Vigorous discussion and debate are fundamental rights and this policy is not intended to stifle teaching methods or freedom of expression. Sexual harassment, however, is neither legally protected expression nor the proper exercise of academic freedom; it compromises the integrity of institutions, the tradition of intellectual freedom and the trust placed in the institutions by their members.

STUDENT RIGHT TO KNOW ACT

The Student Right to Know and Campus Security Act requires that WNCC comply with the provisions and updates in disclosing the persistence graduation rate of certificate or degree-seeking students. This information shall be available each year to current and prospective students prior to enrolling or entering into any financial obligation.

The graduation rate for those students who entered WNCC for the first time on a full-time degree-seeking basis for the fall 1999 semester was 12.75. The average graduation rate for first-time students entering WNCC seeking a degree or certificate during the 1995-1999 school years is 11.01 percent. This figure includes students who received a degree or certificate at WNCC.

WNCC graduation completion rates are available from Counseling Services and Office of Admissions and Records on the Carson City campus.