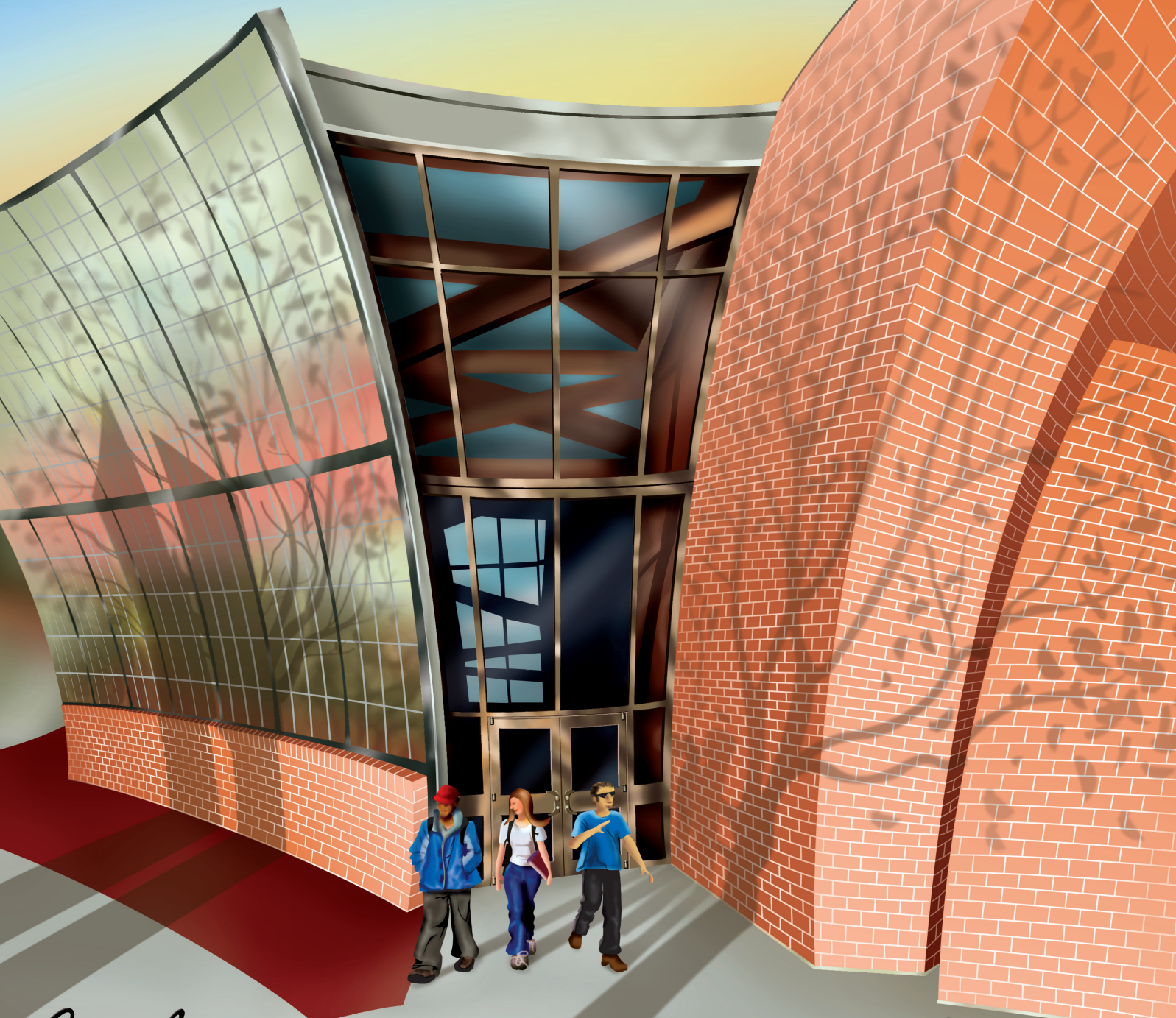


Northwest College

POWELL, WYOMING



Catalog 2004-2005

*Caricature of Hinckley Library
by Eagan, 2004*

2004-2005 Academic Calendar

SUMMER 2004

Memorial Day – College Holiday	May 31
Summer Walk-in Registration Day – Tuesday	June 1
Classes Begin – Wednesday	June 2
New Student Orientation	June 3-4
Last day to ADD/DROP classes (wd*)	June 9
Last day to change to/from AUDIT	June 9
Last day to WITHDRAW from classes (w**)	June 25
Independence Day – College Holiday	July 5
New Student Orientation	July 8-9
Last day of classes	July 16
New Student Orientation	August 5-6

FALL 2004

New Employee Orientation	August 23-24
Campus Meeting	August 25
Residence Halls open 9 am – New & Continuing Students	August 27
Fall Walk-in Registration Day – Friday	August 27
New Student Kick-off Weekend	August 27-29
Classes begin – Monday	August 30
Labor Day – College Holiday	September 6
Last day to ADD/DROP full-term classes (wd*)	September 8
Last day to ADD/DROP 1st half-term classes (wd*)	September 8
Last day to change to/from AUDIT for full-term & 1st half-term classes	September 8
Last day to WITHDRAW from College (1st half-term classes only) (w**)	September 24
Last day of 1st half-term classes	October 21
Fall Recess	October 22-24
Second half-term classes begin	October 25
Mid-term progress reports available online	October 26
Last day to WITHDRAW from full-term classes (w**)	November 2
Last day to ADD/DROP 2nd half-term classes (wd*)	November 2
Last day to change to/from AUDIT for 2nd half-term classes	November 2
Advising Day – only evening classes meet	November 9
Early Registration for Spring 2005 begins	November 9
Last day to WITHDRAW from College (full-term & 2nd half-term) (w**)	November 19
Thanksgiving Break	November 24-28
Thanksgiving – College Holiday	November 25-26
Last day of Classes	December 14
Final Exams – Wednesday-Saturday	December 15-18
Residence Halls close at 10 am	December 19
Winter Holiday, College Closed	December 24-January 2

SPRING 2005

Campus Meeting	January 12
Residence Halls open at 9 am – Thursday	January 13
New Student Orientation – Friday	January 14
Spring Walk-in Registration Day – Friday	January 14
Equality Day – College Holiday	January 17
Classes begin – Tuesday	January 18
Last day to ADD/DROP 1st half-term classes (wd*)	January 26
Last day to ADD/DROP full-term classes (wd*)	January 26
Last day to change to/from AUDIT for full-term & 1st half-term classes	January 26
Last day to WITHDRAW from College (1st half-term classes) (w**)	February 11
Scholarship Day – only evening classes meet	February 21
Last day of 1st half-term classes	March 4
Spring Break	March 5-13
<i>Residence halls close at 10 am March 5 and open at 9 am March 13.</i>	
Second half-term classes begin	March 14
Mid-term progress reports available online	March 16
Last day to ADD/DROP 2nd half-term classes (wd*)	March 22
Last day to change to/from AUDIT for 2nd half-term classes	March 22
Last day to WITHDRAW from full-term classes (w**)	March 22
Classes will Follow a Monday Schedule	March 24
Spring Recess – College Holiday	March 25-28
Last day to WITHDRAW from College (full-term & 2nd half-term) (w**)	April 8
Advising Day – only evening classes meet	April 13
Early Registration for Summer & Fall 2005 begins	April 13
Last day of Classes – Tuesday	May 10
Final Exams – Wednesday-Friday	May 11-13
Graduation	May 13
Residence Halls close at noon	May 14

SUMMER 2005

Memorial Day – College Holiday	May 27-30
New Student Orientation	June 2-3
Summer Walk-in Registration Day – Monday	June 6
Classes begin – Tuesday	June 7
Last day to ADD/DROP classes (wd*)	June 13
Last day to change to/from AUDIT	June 13
Independence Day – College Holiday	July 4
Last day to WITHDRAW from classes (w**)	July 5
New Student Orientation	July 7-8
Last day of classes	July 20
New Student Orientation	August 4-5

* wd = course will not appear on transcript

** w = course and “w” grade appears on transcript

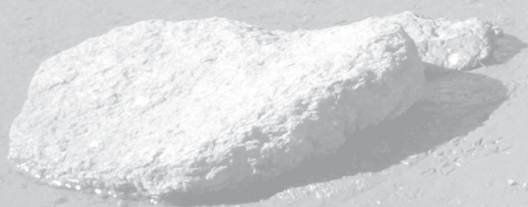
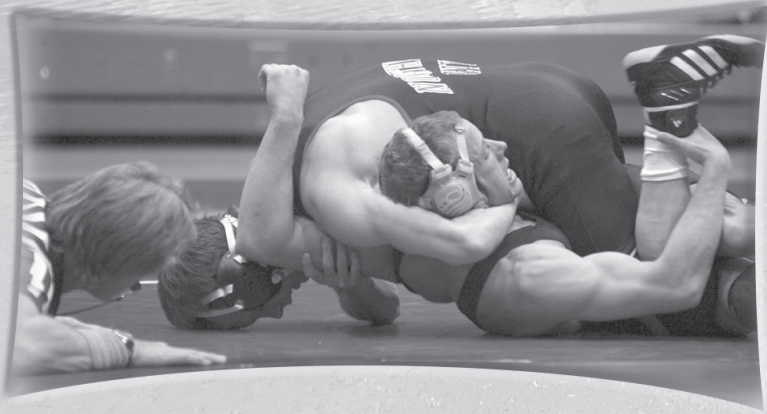
Northwest College does not discriminate on the basis of race, color, national origin, sex, age or disability in its programs and activities. Inquiries concerning Title VI, Title IX, Section 504, and the Americans with Disabilities Act should be directed to the Compliance Officer, 231 West Sixth Street, Powell, WY 82435-1895, or the Wyoming Department of Education, Office for Civil Rights Coordinator, Second Floor, Hathaway Building, Cheyenne, WY 82002-0050, 307-777-6198.

Table of Contents

Academic Calendar	inside front cover
Introduction	3
<i>Phone Numbers / Using the Catalog / Northwest College History / Accreditation / Facilities / Boards</i>	
Enrollment Services Procedures / Policies	6
<i>Application Process / FERPA / Academic Success Program / Residency / Dual Admissions / Tuition Scholarship</i>	
Expenses and Financial Aid	9
<i>Costs / Insurance / Payment and Refund Policies / Golden Age Waiver / Financial Aid and Scholarships</i>	
Special Learning Opportunities	14
<i>Field Studies / Theme Houses / Academic Activities / Honors Program / Honor Society / Capstone Courses / Extended Campus / Concurrent Enrollment / Tech Prep / Workforce Development / Cooperative Education, Independent Study, and Internships / Developmental Courses / Adult Basic Education, GED, and English as a Second Language / Community Education / Cultural Programs</i>	
Student Life	17
<i>New Student Orientation / Residential Life / Child Care Services / Student Center / Student Activities and Organizations / Student Government / Sports / Fitness Facilities</i>	
Academic Support Services	19
<i>Career Planning / Student Success Programs / Project Succeed / Library / Computer Services / Job Placement / Bookstore / Transcripts / Veterans</i>	
Academic Procedures and Policies	21
<i>Placement Testing / Registration Procedures / Drop-Add / Credit by Examination / Self-Acquired Competency Credits / Grading Policies / Attendance Policy / Grade Point Average / Conduct Codes / Student Appeals / Academic Probation and Suspension / Academic Amnesty / Transfer Credit / WICHE</i>	
Graduation Requirements	26
<i>Degrees and Certificates / Graduation Requirements / General Education Program / College Preparation Courses / Earning a Second Degree / Required Catalog / Cancellation of Classes / Application for Graduation</i>	
Programs of Study	31
Programs of Study by Academic Division	
Agriculture, Technology, and Business	31
Communication	39
Humanities	44
Life and Health Science	48
Physical Science	55
Social Science and Education	59
Visual and Performing Arts	65
Course Descriptions	69
Boards, Administration, Faculty, Staff	101
Index	107
Degree Worksheet	111
Campus Map	inside back cover

Northwest College reserves the right to change without notice any of the material, information, requirements, regulations, or costs published in this catalog.

To obtain a copy of this catalog write to:
 Enrollment Services
 Northwest College
 231 West Sixth Street
 Powell, WY 82435-1895



Photos by Robert Long, except upper left image by Susanne Schatz.



Contact Information

Call the switchboard if you don't have a direct number or if you aren't sure where to get the information you desire.

admissions@northwestcollege.edu
www.northwestcollege.edu

Wyoming's area code is (307).

Switchboard	754-6000
Toll free for Enrollment Services.....	1-800-560-4NWC
Admissions.....	754-6101
Financial Aid and Scholarships.....	754-6158
Registration Services	754-6148
Residence Life/Housing.....	754-6163
President.....	754-6058
Dean of Administrative Services.....	754-6403
Dean of College Relations & Development.....	754-6409
Dean of Instruction	754-6472
Dean of Student Services	754-6102
Registrar	754-6400
TTY (Telecommunications device for the deaf)/Voice.....	754-6225

How to Use This Catalog

Nearly everything that you need to know to have a successful student career is contained in this catalog. Locating the material will be easier if you become familiar with the college terminology. Once you have learned what the terms are, turn to the index at the back of the catalog. This will give you the page where the pertinent information can be found. For instance, if you want to find information on tuition, look up “Tuition,” “Financial Aid,” and “Scholarships” in the index and turn to those pages.

Course Descriptions

This catalog contains descriptions of each course offered at Northwest College. These listings include the course designator, number, title, and credit hours (in parentheses) for the course (see page 69 for more information). Course descriptions are followed by the number of hours spent in class lecture or labs. Some courses have prerequisites. A prerequisite is a specific requirement that must be fulfilled by the student before he/she will be allowed to enroll in that course.

Course Numbers

Course numbers generally signify the level of the course. For example, courses numbered below 1000 are below college level and are not accepted for degree requirements at NWC. Those numbered 1000+ are typically freshman courses, and those numbered 2000+ are typically sophomore courses.

Course Transfer

Northwest College courses should transfer to any accredited college, but specific course transferability depends upon many factors. As soon as possible, any student who intends to transfer to another institution should obtain a catalog of that institution and check its requirements. Then that student should match courses at Northwest to those at the transfer institution. Different majors accept different courses and some colleges and universities will accept the same NWC course for different purposes. See page 24. Talk with your academic advisor at Northwest if you have questions.

NOTE: Courses numbered below 1000 and courses listed on page 29 are not transferable.

Definitions

- Credit hour: one clock hour in the classroom or at least two hours in a lab per week.
- Full-time student: enrolled in 12 or more credit hours per semester.
- Part-time student: enrolled in 11.5 or fewer credit hours per semester.
- Freshman: any student with fewer than 30 completed credit hours.
- Sophomore: any student with 30 or more completed credit hours.

**While advisors can and will assist you, ultimately you, the student, are responsible for
 READING THE CATALOG, for adhering to the policies herein, for monitoring your progress toward meeting graduation requirements, for maintaining a current address with the Registrar, and for your career here at Northwest.**

Through a superior teaching, learning, and living environment, Northwest College will be a dynamic and distinguished educational leader that shapes a positive future for students and the many communities it serves.

History

The college opened in 1946 with nearly 100 full- and part-time students and three instructors who met in classrooms borrowed from the public school district. Initially called the University of Wyoming Northwest Center, it was established through an agreement between the University of Wyoming and Park County School District One. University support was discontinued in 1950. In 1953 the name changed to Northwest Community College, and in 1968, the college's tax base was expanded to include all of Park County. The name changed once more, to Northwest College, in 1989.

Today, about 77 full-time and about 80 part-time faculty teach nearly 1,700 students (approximately 1,100 study full time) on a modern campus and in 7-10 Big Horn Basin communities. A stimulating residential campus and special learning opportunities such as field studies abroad, the Honors Program, and workforce development training provide rich and varied learning activities. Northwest prides itself on a commitment to excellence in all its endeavors.

Graduation/ Persistence Data

The following student data is provided in compliance with federal regulations. For more information contact the Dean of Students.

Fall semester of 1999, 406 students entered Northwest College as first-time degree-seeking students with 37% of them completing their degrees in three years. The five-year average annual return rate at Northwest College is 51%, well above the 34% national average.

Mission of the College

Northwest College is a dynamic learning community dedicated to educational excellence. Through their involvement with the College, students acquire the knowledge and skills to successfully achieve their transfer, career, workforce development, and life-long learning goals.

The College contributes to the educational, cultural, and economic vitality of communities in Park County and its service area. Through partnerships, distance education, and applications of new technologies, the College responds to changing community needs and new opportunities to extend learning beyond the classroom.

Northwest College is committed to serving students as individuals, enhancing learning through a residential campus, following sound institutional practices, using assessment information for institutional improvement, and supporting cultural diversity.

Goals

The College fulfills its mission through the accomplishment of the following goals:

- Support students in achieving personal, course, program, and institutional outcomes through academic, workforce, and professional development opportunities
- Enhance academic success and lifelong learning skills of students through their involvement in student support programs, basic education, and developmental courses
- Preserve a learning atmosphere that respects differences through the delivery of multicultural programming and support for a diverse student body
- Promote students' ability to work effectively in culturally and professionally diverse settings as a result of their participation in work-based and other off-campus and international learning opportunities
- Utilize current and maintained educational technologies to support student learning and increase students' access to the College's educational opportunities
- Engage in active and varied external partnerships to strengthen student learning and the overall effectiveness of the College in meeting its mission
- Enrich the intellectual, cultural, artistic, recreational, and social lives

of students and service area communities through delivery of a variety of programs, activities and events

- Enhance student development through student involvement in an attractive, collegiate residential living and learning environment
- Apply assessment information, professional standards, and best practices to enhance courses, programs, degrees, services, and the effectiveness of our personnel
- Demonstrate outstanding professional and educational achievement through the accomplishments and performances of a highly qualified faculty and staff who are supported by professional development opportunities
- Preserve the trust and respect of on- and off-campus constituencies through the use of sound administrative and operational processes
- Secure public and private resources to support the achievement of excellent educational outcomes for those at the College and for service area communities

Approved by the Northwest College Board of Trustees January 12, 2004.

Enduring Values

Northwest College reaffirms the following enduring values — essential qualities of its institutional character which shall be retained and nurtured.

- Challenging, lively classroom instruction
- High quality transfer and technical programs
- Learning opportunities outside the classroom
- Accessible and supportive faculty and staff
- Challenging, reputable co-curricular activities
- Focus on all-around student development
- A highly residential campus
- A friendly campus
- A safe campus
- A student-centered campus
- Attractive, well-maintained facilities
- A host county that is proud of the College and supports students
- Remarkable physical setting
- A regional center for education
- A regional center for culture and sports

Nondiscrimination Statement

Northwest College fosters an open and non-discriminatory environment throughout the college community. To this end, the college advocates the use of words and actions which promote and encourage individual and collective respect and dignity. Northwest College opposes language and actions which in any way demean others on the basis of their race, gender, national origin, sexual orientation, religious preference, physical characteristics, disability, ancestry, or age. Within the context of First Amendment rights, the college is committed to the elimination of discriminatory language and actions from the college community.

Accreditation

- North Central Association of Colleges and Schools, www.ncacihe.org or 312.263.0456
- National Association of Schools of Music
- National League for Nursing

Campus and Facilities

NWC is located in Powell, Wyoming, which lies in the valley of the Shoshone River, 70 miles from Yellowstone National Park, 90 miles south of Billings, Montana, 510 miles from Denver, Colorado, and 25 miles from Cody, Wyoming, home to the nearest commercial airport. Powell is a town of 5,700 whose economy is based primarily on farming, ranching, oil, and education.

Northwest's 124-acre main campus is one of the most attractive college campuses in Wyoming. Its 57 buildings include modern instructional facilities, residence halls and apartment complexes, a student center, a child care center, and a library with electronic access to others. Nearby are the West Campus facilities—a 22-acre park-like complex of student apartments and instructional spaces—and the observatory, an equine center, an agriculture pavilion, and a center in Cody, Wyoming.

Mickelson Field Station, located 50 miles west of campus on 36 acres surrounded by national forest in the mountains, is used by the college and the public for educational and recreational

activities. Main campus recreational facilities include a gymnasium with volleyball, basketball and racquetball courts, outdoor tennis courts, all-purpose fields, a climbing wall, and a fitness center. *This catalog contains a detailed campus map located on the inside back cover.*

Computer Services

Computers for student use are accessible from many locations across the campus using a Novell network. Students have an account on campus with five megabytes of space. Through the network, students have access to both on-campus resources and off-campus Internet resources including electronic mail, Web browsing, and library search capacity.

Northwest supports 21 labs strategically located throughout the campus, and an additional computer lab is available at the Cody Center. These labs are utilized for scheduled classes and open hours for students. Each residence hall also has a lab with two to four computers available 24 hours a day at the discretion of the residence hall director. All residence rooms are currently wired for Internet access.

Check the Northwest College Web site at www.northwestcollege.edu for more details.

Northwest College Budget

The college's budget, as reported in the annual audit, is available from the Business Office.

Board of Trustees

Formulation of major policy and ultimate budget authority at Northwest College rests with a seven-member Board of Trustees. Trustees represent the college's tax district of Park County and are elected to four-year terms in compliance with Wyoming's Enrolled Act 80 (HB 58-A).

Monthly meetings are held the second Monday of each month, with special meetings called as necessary. A citizens' open forum is on each regular meeting agenda. (See page 101 for a list of current Board members.)

Foundation

The Northwest College Foundation is a private nonprofit corporation which accepts gifts on behalf of Northwest College and extends financial support to the college. The Foundation was formed in 1966.

Foundation donors are individuals, businesses, and civic organizations who contribute to the college through the Foundation. Gifts to specific areas of the college are received by the Foundation and used in accordance with donors' wishes. Unrestricted gifts to the Foundation provide resources needed to meet the college's changing needs. Gifts can be made in the form of cash, securities, real estate, personal property, and a variety of planned and deferred giving options.

Benefits to Foundation donors include recognition on the college's honor roll of giving, pride of association, and incentives provided by the income tax code.

Alumni Association

The Northwest College Alumni Association was chartered in 1988, becoming the first Wyoming community college alumni association and among the first two-year college alumni associations in the Rocky Mountain area.

As stated in the attached bylaws, the Alumni Association's mission is to serve as the principal link between Northwest College and its worldwide network of alumni. As such, the mission of the Northwest College Alumni Association is to

- promote alumni affiliation with the college, engendering a sense of pride, loyalty, interest in and support for the college;
- provide meaningful activities and services for alumni; and
- engage the talents and resources of alumni in the life, work and mission of Northwest College.

There are just over 15,000 Northwest alumni world wide. An alumnus is defined as anyone who attended the college full time (12 or more credit hours), successfully completing at least one semester.

The NWC Alumni Association is managed by a 20-member Board of Directors.

ENROLLMENT SERVICES PROCEDURES / POLICIES

Preparation for College

Northwest recommends high school students complete four years of English, three years of mathematics, three years of science, three years of social studies, two years of foreign language, and one year of art.

The areas of study listed above are NOT prerequisites for admission. If your educational background is not in conformity with your educational goals, you may need to spend extra time building your academic skills. The college stands ready to assist you in every way possible should this be the case.

Your Invitation to Visit Campus

Northwest College invites prospective students and their families to visit campus Monday through Friday. Come meet with college personnel in Enrollment Services and Residence Life. With advance notice, prospective students may also visit with a faculty advisor and tour the campus.

Overnight lodging (space permitting) and meals for one day are available on campus at no cost. We encourage visitors to make arrangements one week in advance through Enrollment Services.

Admission to the College

As a member of the National Association for College Admission Counselors, Northwest College follows the NACAC *Statement of Principles of Good Practice*.

Applicants are encouraged to apply at least two months prior to the semester in which they plan to enroll, however, applications will be accepted anytime prior to the start of a semester. Northwest College reserves the right to deny admission. All applicants must submit an admission application and official transcripts. All applicants are encouraged to submit scores on the American College Test (ACT) or the Scholastic Aptitude Test (SAT) or take the COMPASS Placement Test. Results are used in academic advisement and career planning.

Academic transcripts from high school or colleges previously attended should be sent directly to Enrollment Services. Northwest reserves the right to

decline acceptance of transcripts not mailed directly from the originating institution.

ALL STUDENTS

- Immunization Record — Any student born after 1956 must provide proof of immunity to Measles/Mumps/Rubella (MMR) to attend NWC. Students who fail to provide proof of immunizations will have a hold put on their account and may be withdrawn from their classes.

WYOMING RESIDENTS

- Northwest College admits Wyoming residents who are graduates of a Wyoming state accredited high school and entering college for the first time.
- Northwest will admit current Wyoming residents who have graduated from an accredited high school from any other U.S. state.
- Wyoming residents who have not graduated from a state accredited high school may be considered for admission if they have successfully completed the General Education Development (GED) examination.

OUT-OF-STATE RESIDENTS

- Northwest will consider out-of-state residents who are graduates of a state accredited high school and who have a 2.0 (C) high school grade point average, have successfully completed the GED, or show special aptitudes indicating promise of success in college.
- Northwest College reserves the right to deny admission.

TRANSFER STUDENTS

- Northwest will consider transfer students who present official transcripts from all colleges attended.
- Transfer students with fewer than 15 credit hours of transfer credit must also submit a high school transcript or take the COMPASS Placement tests.
- Students whose cumulative grade point average is below 2.0 (C) may be considered for admission in the Academic Success Program.
- Northwest College reserves the right to deny admission.
- Students who wish to transfer to Northwest must have their transcripts evaluated by the Registrar.
- Generally, students who have a cumulative grade point average of 2.0

(C) or above will have courses with “D” grades accepted as well, except in courses with a minimal grade requirement.

- Courses are transferred but not the letter grade.

HOME SCHOOLED STUDENTS

Students, 16 years of age or older, who have been home schooled are required to fill out and send in the Home School Transcript Evaluation Form along with their ACT/SAT scores. Students who have not taken the ACT/SAT are required to take the COMPASS Placement Exam.

INTERNATIONAL STUDENTS

Northwest requires a minimum TOEFL score of 475 for admission. Exceptions to this requirement must be ruled upon by Enrollment Services. Our international admissions evaluator corresponds with interested students, evaluates applications, and assists international students with the required documents and visas. All international students must purchase a health insurance policy through NWC and are required to reside on campus during their first year of study.

CONCURRENT HIGH SCHOOL ENROLLMENT

Individuals admitted as special students are limited to no more than two college-level classes per semester. (College-level courses are those generally numbered at the 1000 level or above. See page 29.) Regular Northwest students have preference for access to classes with limited size. Approval for admission is for one semester only; continued enrollment is subject to satisfactory completion of previous coursework.

- Junior and senior students enrolled in a state accredited high school with a cumulative GPA of at least a 2.7. A letter of permission from the high school guidance counselor or principal and a copy of the current high school transcript are required.
- Area high school students below the junior level who demonstrate exceptional ability through public school course work (cumulative GPA of 3.5 or better). A letter of permission from the high school guidance counselor or principal and a copy of the current high school transcript are required.

AS SPECIAL ADMITS

Northwest will consider the following individuals for admission as special admits:

- ▶ Students under age 18 who are not enrolled in a state accredited high school, who have a release from high school, and can demonstrate college-level ability in one of the following ways:
 - have successfully completed the GED,
 - take the COMPASS Placement test,
 - or other evaluation by appropriate NWC faculty for enrollment in technical skills courses.

Appeals arising from denial of admission will be referred to the Student Appeals Board.

Family Educational Rights and Privacy Act of 1974

The Family Educational Rights and Privacy Act of 1974 (FERPA) governs the College’s collection, retention, and dissemination of information about students.

Students’ basic rights under the law and the College’s procedures for compliance follow:

- ▶ Northwest College defines “directory information” as: name, local address and telephone listing, e-mail address, photography and video, permanent address, date of birth, major field of study, previous schools attended, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, and degrees and awards received.
- ▶ Northwest College may disclose directory information unless a student requests a restriction of disclosure. Such requests must be made to the Registrar by the last day of registration for any given academic term.
- ▶ Students may examine or obtain a copy of their Northwest College transcripts in the Office of Enrollment Services during regular office hours.
- ▶ Students who wish to examine records other than transcripts must file a written request to the Dean of Student Services specifying the records the student wishes to examine. Requests to examine records are generally honored as

soon as an appointment with the appropriate office can be arranged. The College must honor the request within 45 days.

- ▶ Students may request that their records be amended to eliminate information the students believe to be inaccurate, misleading, or a violation of their rights, and are entitled to a hearing to challenge the contents of their records if a request for amendment is denied.
- ▶ Any materials placed in a student’s file before January 1, 1975, under assurance of confidentiality, shall continue to be held in confidence.
- ▶ The College may not release or disclose any personally identifiable information to any individual (including parents, spouse, or other students) or organization except as follows:
 - Disclosure is authorized in writing by the student. When the College releases or discloses information to third parties pursuant to a student’s written authorization, it is done on the condition that the third party to whom the information or record is released or disclosed will not, in turn, release or disclose it to anyone else without the express written consent of the student.
 - Disclosure is to College officers or employees who need to know so as to accomplish legitimate purposes related to their functions.
 - Disclosure is to officials of other schools in which a student intends to enroll.
 - Disclosure is to parents of dependent students. Dependency status, for the purpose of this policy statement, is defined by Internal Revenue Service guidelines.
 - Disclosure is to specified representatives of governmental agencies, educational organizations or other entities as described by federal regulations or otherwise required by state or federal law. Custodians of records should obtain interpretations whenever third parties request personally identifiable information.
 - Disclosure is in connection with a student’s application for, or receipt of, financial aid.
 - Disclosure is in compliance with a conduct order or subpoena. The staff member receiving such order, shall, if possible, immediately notify the student concerned in writing prior to compliance with such order or subpoena.

- Disclosure is to parents of students under the age of 21 who are found to be in violation of alcohol and/or drug policies.
- Information from College records may be released to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other persons.
- ▶ Northwest College’s guidelines for implementing FERPA are maintained by the Dean of Student Services. Students should address questions, concerns, or problems to the Dean of Student Services Office.
- ▶ Students may file formal complaints regarding alleged failure of the College to comply with FERPA with the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, S.W., Washington, D.C. 20202-4605.

Academic Success Program

Northwest College wants to provide an opportunity for all students to succeed. Students admitted to NWC who have a combined ACT score of 16 or below, a high school GPA of 2.0 or below, or a GED score of 550 or below, enter the Academic Success Program. Scores on placement tests will determine if a student is required to take developmental courses in reading, mathematics, and English. These courses do not count toward graduation. Students taking more than one of these courses may need an extra semester or possibly an extra year to complete a degree program. For further information, contact the Student Success Center.

On-Campus Living Requirement

See page 17 for a complete explanation of the campus residency requirement.

Residency Classification

The following regulations govern the classification of students as resident or nonresident for the purpose of tuition charges at Northwest College.

A student previously classified as a nonresident may be reclassified after meeting the established residency criteria. **The request must be received 15 days prior to the start of classes of the term in which reclassification is sought.** A student classified as a resident by one Wyoming community college is considered a resident at all community colleges in Wyoming.

CLASSIFICATION PROCEDURES

- Residence classification shall be made for each student at the time the application for admission is accepted and whenever a student has not been in attendance for more than one semester.
- Only individuals or their legal dependents who are U.S. citizens or in an emigrant status may qualify for residency.
- Community college districts may require applicants to supply information to document residency status.

RESIDENCE

Any of the following may be used by a student and would result in an individual being classified or reclassified as a Wyoming resident for tuition purposes:

- A graduate of a Wyoming high school or GED recipient who enrolls in a Wyoming community college within 12 months of high school graduation.
- An individual who can provide written verification that he/she has lived in Wyoming continuously for one year prior to enrolling.
- A legal dependent under the age of 24, or a spouse of a resident of the State of Wyoming who qualifies as a resident based upon this policy.
- A legal dependent under the age of 24 of a Wyoming community college graduate.
- A student who marries a Wyoming resident shall be granted resident classification at the beginning of the next term following the marriage.
- An individual on active duty in Wyoming with the United States Armed Forces, Wyoming National Guard, or Reserves and his/her legal dependents.
- An individual who can provide written verification from an employer that he/she will be employed full-time for an anticipated period of not less than seven (7) months.
- Persons temporarily absent from the state due to military service, atten-

dance at educational institutions, or other types of documented temporary absences, will not have their resident status voided by such absence.

EXCEPTIONS

- Students whose parents or guardians received a degree or certificate from any Wyoming Community College may qualify for resident tuition rates. In accordance with W.S. 21-17-105, an individual who does not reside in Wyoming may be considered a resident for tuition purposes if he/she meets all of the following criteria:
- Has been employed in Wyoming for at least seven months, and such employment is the applicant's principal means of support.
- Pays Wyoming property taxes.
- Resides in a state with a similar law.
- Is willing to submit an affidavit to the above.

Transfer Agreements/ Dual Admissions

NWC has transfer agreements with regional four-year colleges and universities. We have Dual Admissions with Montana State University in Bozeman and Billings.

A student entering through dual admissions is simultaneously admitted to Northwest College and Montana State University—Bozeman or —Billings. The program is designed to allow students to begin planning their four-year degree programs more effectively while attending Northwest College.

Check with the Enrollment Services Office for information about specific requirements for Dual Admissions and application procedures.

WUE Tuition Scholarship

WUE is an acronym for the Western Undergraduate Exchange Program, a voluntary organization of western states. Under this agreement, students residing in the states of Montana, Alaska, Arizona, California, Colorado, Idaho, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, and Washington may attend Northwest College at 150%

of Wyoming tuition, rather than the out-of-state rate. Currently, tuition rates will also be calculated at 150% of Wyoming tuition for Nebraska residents. The scholarship value is approximately \$1,900.

2004 - 2005 Expenses beginning Fall 2004

SEMESTER FLAT RATE

(11.5 to 20 credit hours)*	Wyoming Resident	Nonresident**	WUE***
Tuition	\$ 660.00	\$ 1980.00	\$ 996.00
Fixed Fees	99.00	99.00	99.00
Academic Computing Fee	100.00	100.00	100.00
Instructional Fee	21.00	21.00	21.00
Accident Insurance (mandatory)	24.00	24.00	24.00
Subtotal	\$ 904.00	\$ 2224.00	\$ 1240.00
Course Fees	vary	vary	vary
Books / Supplies estimate	325.00	325.00	325.00

PER CREDIT HOUR RATE

	Wyoming Resident On-campus Classes & Cody Center	Wyoming Resident Off-campus Classes	Nonresident**	WUE Scholarship***
Tuition	\$ 55.00	\$ 55.00	\$ 165.00	\$ 83.00
Fixed Fees	8.25	7.75	8.25	8.25
Academic Computing Fee	8.00	2.50	8.00	8.00
Instructional Fee	1.75	1.75	1.75	1.75
Subtotal per credit hour	\$ 73.00	\$ 67.00	\$ 183.00	\$ 101.00
Course Fees	vary	vary	vary	vary
Off Campus Facility / Equipment Fee	varies	varies	varies	varies
Books / Supplies	varies	varies	varies	varies

* Students taking 20.5 or more credit hours pay the flat rate plus additional tuition at the per credit rate.

** Nonresident students whose parent(s) graduated from Northwest or any other Wyoming community college may qualify for resident tuition rates (see page 7 for residency classifications).

*** See WUE (Western Undergraduate Exchange Tuition Scholarship) on page 8.

ON-CAMPUS HOUSING RATES

RESIDENCE HALLS	<u>Semester</u>	<u>Annual</u>
Standard Double Room	\$ 775	\$ 1,550
Small Single Room (<i>Lewis & Clark Hall</i>)	900	1,800
Super Single Room	1,100	2,200

A \$125 room reservation / damage deposit due upon reservation.

Residence hall costs include telephone, hall activities, parking, all utilities, and Internet access.

APARTMENTS

Rates range from \$213 – \$1,100 per month.

A \$200 – \$300 apartment reservation / damage deposit due upon reservation.

MEAL PLANS

	<u>Semester</u>	<u>Annual</u>
Traditional 19 Meal Plan	\$ 878	\$ 1,756
Flex 15 Meal Plan	\$ 878	\$ 1,756
Traditional 10 Meal Plan	\$ 722	\$ 1,444
Flex 6 Meal Plan	\$ 722	\$ 1,444
Traditional 5 Meal Plan	\$ 539	\$ 1,078

ALL COSTS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Costs

Student costs at all Wyoming public institutions continue to be some of the lowest in the nation. The basic cost of attending Northwest consists of tuition, fees, books, and room and board. Additional costs that students may incur are special fees, travel, entertainment, and personal expenses.

TUITION

Tuition is paid on a per credit hour basis up to 12 credit hours. Students enrolled in 12 to 20 credit hours pay a flat rate. Students enrolled in 20.5 or more credit hours pay the flat rate plus additional tuition for each credit above 20.

NOTE: Some out-of-state students may utilize the WUE program. See page 8.

FIXED FEES

On-campus Powell and Cody Classes:

Fixed Fees are \$8.25 per credit hour up to a maximum of 12 credits and include charges for student activities, athletics, building usage, publications, bonds, health services, fitness center, and other general student services.

Off-campus Classes (except Cody):

Students enrolled in off-campus classes pay \$7.75 per credit hour up to a maximum of 12 credits and are eligible for on-campus library services. These fees also provide student access to off-campus registration, advisors, counselors, course materials, toll-free telephone, and learning resources.

ACADEMIC COMPUTING FEE

The Academic Computing Fee supports instructional computer technology at Northwest College. Students pay a rate of \$8.00 per credit hour (\$2.50 per credit hour if the course is taken off campus) up to a maximum of 12 credits. Students enrolled in 12 or more credit hours pay a flat fee of \$100 per semester.

INSTRUCTIONAL FEE

All students pay an Instructional Fee of \$1.75 per credit hour up to a maximum of 12 credits. Northwest College uses revenue collected from this fee to help support instructional supply budgets.

COURSE FEES

Some courses have fees that range from \$10 – \$250. In general, programs of study with a substantial number of laboratory

courses, such as equine studies, photography, nursing, welding, and art, have higher overall course costs. Laboratory science classes, private music lessons, and some physical education courses also have course fees. A complete list of individual course fees is published in the *Semester Class Schedule* each semester.

ALTERNATIVE CREDIT CHARGES

Transcripted Tech Prep Program credits ..	\$.5/credit
Transcripted CLEP credits	\$.5/credit
Self-Acquired Competency	\$.35/credit
Credit by Examination	
Advanced Placement Exams	
.....	\$.5/credit + any direct testing costs
CLEP Exams	\$10 administrative charge + any direct testing costs
Challenge Exams	\$.25/credit
Individualized Instruction	
Cooperative Education	tuition & fees/credit
Internship	tuition & fees/credit
Independent Study	tuition & fees/credit

OTHER CHARGES

Application fees: Out-of-State	\$10
International	\$25
COMPASS Test	\$10
COMPASS Test, Re-take	\$3/test
Equine Stabling Charge ..	\$775 per horse/semester
Identification Card Replacement	\$10
New Student Orientation	\$30
Graduation Fee	\$20

ACCIDENT INSURANCE AND HEALTH PLANS

Students enrolled in 12 or more credit hours are required to pay \$24 per semester for a mandatory group accident insurance policy approved by the Associated Students of Northwest. The policy is a secondary policy and covers up to \$2,000 per injury, with no deductible charge. This policy pays in addition to any other coverage the student may have and includes a \$1,000 accidental death benefit.

International students are required to purchase a Medical Sickness Plan that, depending upon age, costs \$24 to \$71* monthly. An optional Family Health Plan is available to interested single students and students with families. Ask for details.

**Insurance fees are subject to change.*

Payment Policy

METHODS OF PAYMENT

Northwest College accepts cash, checks, money orders; VISA, MasterCard, and

Discover credit cards. Beginning in 2003, students may pay online using a credit card. See WebAdvisor page 21.

TUITION PAYMENT POLICY

Payment of tuition and fees may be made at any time after registering for classes.

The deadline for payment in full of all charges (tuition, fees, room, rent, meals) is the first day of the semester.

Any student with an unpaid balance will be subject to withdrawal from all classes thirty days after the beginning of the semester. If withdrawn for non-payment, the student will remain responsible for the entire balance owed, with interest charged monthly at a rate of 1.00% (12% annual rate). Bills will be mailed monthly until the account has been paid. Accounts that remain unpaid for two semesters following the unpaid semester will be sent to an outside collection agency.

Students residing on campus who have been withdrawn from classes will be checked out of their rooms or apartments and their meal plans will be discontinued.

Registration in classes and transmission of transcripts are services that are provided only to those who have paid Northwest College in full.

Any student who registers for classes and decides not to attend must notify Northwest College in writing within the first 10% of the semester in order not to be charged any tuition and fees. See the refund policy below or in each semester's Class Schedule for specific dates and amounts of refunds.

Bills are mailed to students on or about the 15th day of the month prior to the beginning of classes. It is not necessary to wait for a bill before making payment. A statement of your account may be seen at any time by accessing WebAdvisor through the Northwest College web site www.northwestcollege.edu. You may also contact the Business Office to inquire about your balance or if you have other student account questions.

Refund Policy

Refunds are made by check twice each month. Students should confirm that the Registrar has their correct address.

Any student who preregisters for classes and then decides not to attend must notify Northwest College in writing prior to the first day of classes in order to

not be charged for tuition and fees. The effective date of withdrawal will be the date notification is received by the Enrollment Services Office.

REFUND SCHEDULE

Refunds are made by check on the first and third Fridays of each month. Please be sure the Registrar has your current address.

Students who officially withdraw from Northwest College before the scheduled "Last Day to Add Full-Term Classes" will receive a full refund of tuition and fees. Thereafter, students who withdraw from school or drop classes will receive refunds based on the following schedule.

Additionally, room and board charges will be refunded based on the following schedule.

First 10% of Semester*

- 100% refund of tuition and fees
- 90% refund of residence hall charges
- Meal plans and apartment rent will be prorated based upon checkout date

First 11-25% of Semester*

- 50% refund of tuition (fees not refundable)
- No refunds of residence hall charges
- Meal plans and apartment rent will be prorated based upon checkout date

After 25% of Semester*

- No refund of tuition, fees, or residence hall charges
- Meal plans and apartment rent will be prorated based upon checkout date

**Check the appropriate Semester Class Schedule for exact dates.*

All Federal Financial Aid monies are subject to the Federal Return of Funds Policy. See below.

Dropping Courses.* Students with 11.5 or fewer credit hours who decrease their credit hours by dropping a course will receive a refund of tuition and course fees based upon the above schedules.

**Notify the Registrar in writing of your intention to drop a course or withdraw. The drop or withdrawal date is the date written notice is received by the Registrar.*

Students who decrease their credit hours **but retain 12 or more** will receive a refund of course fees based upon the above schedules.

Refunds for classes meeting less than a full semester will have a prorated refund period.

See Refund Policy on page 10 for students who preregister but don't attend.

CREDIT BALANCES

Credit balances may be used by Northwest College to satisfy any outstanding amount due.

Golden Age

Park County residents who are 60 years of age or older qualify to have tuition waived for up to six credit hours per semester. The waiver applies to tuition only. Fees are not waived and are payable at the time of registration. Individuals wishing to use the waiver must be enrolled in credit classes. Audited and noncredit classes do not qualify for the waiver. To obtain a Golden Age tuition waiver, contact Enrollment Services.

Financial Aid

Northwest believes students with scholastic ability should not be denied a college education. Through institutional, state, and federal programs, Northwest attempts to assist students in meeting their financial obligations. Complete information is available from Enrollment Services.

Federal Aid

Federal financial aid available at Northwest College can be divided into three categories: grants, employment, and loans. Grants are a form of gift aid to financially needy students. Employment is provided through federally and institutionally supported job opportunities on campus. Low interest federal loans are also available.

TYPES OF FEDERAL GRANTS/WORK

Federal Pell Grant

To be eligible for a Federal Pell Grant, a student must complete the Free Application for Federal Student Aid (FAFSA) and be degree-seeking. The amount

awarded may range from \$400 to \$4,050 and is determined by a formula developed by Congress.

Federal Supplemental Educational Opportunity Grant (FSEOG)

To receive FSEOG, students must show exceptional need. The amount awarded may range from \$400 to \$800.

Leveraging Educational Assistance Partnership Program (LEAPP)

To receive LEAPP, a student must be a resident of Wyoming and show financial need.

Federal Work Study

Students who show financial need, are accepted as degree-seeking, and enroll in a minimum of six credit hours per semester may earn a portion of their educational expenses through part-time employment on campus. Students earn minimum wage and are paid on a monthly basis.

FEDERAL FAMILY EDUCATION LOAN PROGRAM

Federal Stafford Student Loan

The amount eligible students may borrow to meet educational expenses varies based upon circumstances. Repayment of principal begins six months after the student is no longer enrolled.

Federal Parent Loan Program (PLUS)

The PLUS loan is available to parents of dependent students. Parents may borrow up to the full cost of attendance minus other financial aid to meet educational costs. The interest rate is variable.

APPLICATION PROCEDURE

To apply for federal financial aid, all students must complete the Free Application for Federal Student Aid (FAFSA), available from high school counselor's offices or Northwest's Enrollment Services Office. There is no absolute deadline for applying for financial aid. However, awards are made on a first-come, first-served basis. Students should submit the Free Application for Federal Student Aid as soon as possible after January 1, but the priority deadline is March 1.

STANDARDS OF PROGRESS FOR ALL FEDERAL FINANCIAL AID RECIPIENTS

In accordance with federal regulations, Northwest College has established a policy to define and administer standards of academic progress for students

receiving Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Leveraging Educational Assistance Partnership Program, Federal College Work Study, and awards from the Federal Family Education Loan Program. Students receiving federal assistance must maintain satisfactory academic progress in a program of study leading to a degree or certificate.

Students have many opportunities to receive a copy of the Standards of Satisfactory Academic Progress Policy, including:

- copies sent to all applicants,
- two copies attached to all award letters; recipients must sign and return one copy, and
- copies available at NWC Enrollment Services.

Contact Enrollment Services with questions about the policy.

FEDERAL RETURN OF FUNDS POLICY

This policy applies to students who have been awarded assistance through the Federal Pell Grant, FSEOG, LEAPP, or Federal Family Education Loan Program (Stafford and PLUS loans). For these students, the Federal policy overrides the Northwest College Refund Policy, which is published in the Semester Class Schedule and Northwest College Catalog.

If a student: a. Does not register for courses, b. Registers but does not begin attendance, or c. Withdraws, drops out, or otherwise cancels his or her registration on or before the first day of classes, all federal aid offered to that student for that semester will be cancelled. Students who have signed a campus housing contract will be subject to the terms of that contract and will not receive financial aid for any debt thereby incurred. Students who withdraw, drop out, are expelled, or are administratively withdrawn after the first day of classes will be subject to the Federal Return of Funds Policy. Students may be required to repay a portion or all of the assistance they received for living expenses.

The Federal Return of Funds Policy requires that a refund calculation be performed for any student who withdraws before the 60% point of any semester. (After the 60% point, the calculation assumes that 100% of the aid awarded was earned). The number of days up to and including the withdrawal

day is divided by the number of days in the semester to determine the percentage of enrollment completed. The institutional charges (tuition & fees) are then multiplied by the above-calculated percentage to determine the amount of Title IV Aid earned. The amount earned is then subtracted from the total institutional charges to determine the unearned funds.

These unearned funds are then returned to the financial aid programs in the following order as required by federal regulations: Federal Unsubsidized Stafford Loan, Federal Subsidized Stafford Loan, Federal Parent PLUS Loan, Federal Pell Grant, Federal SEOG, LEAPP, other federal, state or private financial assistance, then Northwest College financial assistance.

If a student has received unearned funds that must be repaid to these programs, Northwest College will notify the student in writing of the amounts and which programs they owe within 30 days of withdrawal from classes. Any refund remaining after all sources of assistance have been repaid will be returned to the student.

A student must complete an official drop/withdrawal form (which can be obtained at the Office of Enrollment Services), and file it with the Registrar. Examples of refund calculations and the full policy are available upon request at Enrollment Services.

Other Financial Aid

STUDENT EMPLOYMENT

Northwest College has a large on-campus employment program. Need is not a factor. The only criterion is the student's willingness to work. Students accepted as degree-seeking and enrolled in at least six credit hours may be employed and are paid the minimum wage. Northwest offers off-campus employment opportunities through the Cooperative Education Office. Many businesses in the community employ students on a part-time basis.

VETERANS' BENEFITS

For veteran enrollment information, contact the Registrar in Enrollment Services. Veterans who wish to use their G.I. Bill educational benefits must complete an application for veterans' benefits

60 days prior to enrollment to ensure payment the first month of the semester. Application may be made online at vba.va.gov or paper applications are available in the Registrar's Office. Continuing veterans must contact the Registrar when registering for classes to ensure timely certification.

Scholarships

Scholarships are awarded by Northwest, private citizens, service clubs, and business organizations. Over \$300,000 are awarded annually to full- and part-time students. Detailed descriptions of scholarships are available at Enrollment Services. Scholarship recipients must complete specific requirements noted in the award letter.

NORTHWEST COLLEGE SCHOLARSHIPS

NWC Merit Scholarship:

Available to high school seniors who plan to enroll full time the fall semester following graduation. Students must have a 3.75 GPA and live in campus housing. The scholarship automatically renews for up to four semesters, if students maintain a 3.5 GPA and full-time status. The number of awards vary based on availability of funds. Value equals resident tuition for up to 20 credits per semester.

Academic & Activity Scholarships:

Northwest awards approximately 400 scholarships to eligible students in two broad categories – Academics and Activities. Recipients are selected by faculty members. Grades, recommendations, and interviews or auditions are factors used in selection. Scholarship Day, held each February on campus, is an opportunity to compete for these monies.

Academic Scholarships are available in most NWC degree and certificate programs:

Students must major in the field in which the award is granted, except for French, Spanish, English, or General Studies. *Music majors should apply for Activity Award below.*

Activity Awards: Recipients of an activity award must participate in the activity beyond regular classroom instruction. Awards vary in value up to the full cost of attendance.

Campus Newspaper	Music Instrumental *
Forensics	Music Vocal *
Livestock Judging	Web / Broadcasting

Men's Basketball
Men's Rodeo
Men's Wrestling

Women's Basketball
Women's Volleyball
Women's Rodeo

* *must audition*

Clyde F. Griffin Superior Student

Scholarships: Up to three \$2,000 scholarships are available to new freshmen. Applicants must have a minimum high school GPA of 3.5 and an ACT composite score of 28 or higher. Recipients are expected to reside on campus.

Northwest Marigold Saunders Scholarships:

Ten \$1,000 scholarships are available to new freshmen who are graduating from a Wyoming high school and reside outside a 10-mile radius of Powell. Applicants must have a minimum high school GPA of 3.2, an ACT composite score of 24, and an SAT of 970.

Fell-Oskins Scholarships: Three \$2,000 Scholarships (\$1,000/yr.) are available to new freshmen majoring in art. Applicants must have a minimum high school GPA of 3.0. Priority consideration is given to Wyoming residents of Big Horn, Hot Springs, Park, and Washakie Counties.

Northwest Divisional Merit Awards:

Seven \$600 awards are available to returning sophomores with at least 30 hours completed and a minimum 3.0 GPA. Selection is made by the faculty of each division based on the applicant's contributions to the department, division, and the college in general.

Marigold Saunders Sophomore Scholarships:

Award values vary up to \$500 and are available to returning sophomores who have completed at least 30 hours at NWC with a minimum GPA of 3.0. These scholarships are funded by the late Grant Taggart, who was executor of the Marigold Saunders estate.

PRIVATE, SERVICE ORGANIZATION, AND BUSINESS SCHOLARSHIPS FOR NORTHWEST STUDENTS

There are a large number of private scholarships offered to new and returning students. Application information is available in the Northwest College Scholarship brochure. Another excellent reference is the "Student Financial Aid and Scholarships at Wyoming Colleges" catalog which is available at high school counselor offices, public libraries, and NWC Enrollment Services. Most scholarships have an application deadline of February 1.

Clarence B. Swallow Memorial

Scholarships: Approximately \$50,000 a year is available to fund scholarships of varying amounts to Northwest College students from Carbon County, Mont., and Park County, Wyo. Nontraditional and GED students, as well as recent high school graduates, are encouraged to apply for the scholarships which are funded through an endowment to the Northwest College Foundation. Applicants must have a minimum GPA of 2.0 and a demonstrated need for funding.

AFTER NORTHWEST

Several scholarships are available to NWC graduates transferring to other institutions. Contact Enrollment Services for more information.

Transfer students may also benefit from the WICHE program. See page 25.

Field Studies

Field-study courses deepen participants' understanding of history, culture, arts, language, and the environment of another region or country. Courses are offered during weekends, Winter Holiday, Spring Break, and summer months. Recent field-study programs included trips to China, Ireland, Hawaii, France, South America, Israel, and the southwestern United States.

Theme Wings and Houses

Theme Wings and Houses provide focused, stimulating living and learning experiences. Students with related academic interests group together in residence halls or in Theme Houses.

Theme Houses have included Art, Writing, Music, and Photography. To be eligible students must:

- have earned at least 30 college credits
- have a GPA of 3.0 or permission of Theme House faculty sponsor
- serve as leaders in Theme House related courses and activities
- and complete required housing forms.

Theme House students participate in specially designed courses that provide advanced study, skill development, and applied activities in the community. With permission, interested advanced students not living in the wings/houses may also participate in Theme-related learning activities. See Residence Life materials for more theme-based living options.

Academic Activities

Northwest College fields teams in Forensics, Equine Judging, and Livestock Judging. Teams have achieved significant rankings nationally and regionally.

Students, regardless of their degree program, have opportunities to participate in academic-based clubs and campus activities.

Visit the Enrollment Services Office for more information about these academic-related activities.

Honors Program

The Honors Program at Northwest College provides advanced learning

opportunities. Honors Program Seminars include:

- ENGL 1020 (Honors Section) English II: Introduction to Literature (3).
- HIST 2070 The Holocaust: A Survey (3).
- HUMN/MUSC 2360 "Born to Lose": The Cultural Narrative of Country Music (3).
- PHYS/HIST/CHEM 2149 Nuclear Century (3).
- SOC/HIST 2420 History of Criminal Justice (3).

With the exception of the ENGL 1020 Honors Section, the Seminars are open to any NWC student. Students can apply for honors in any college course numbered designation 1000 or higher. Honors credit is noted on students' NWC transcript.

Phi Theta Kappa – Honor Society

The purpose of the Phi Epsilon Chapter of Phi Theta Kappa International Honor Society is to promote scholarship, the development of leadership and service, and the cultivation of fellowship among qualified honor students at Northwest College. A student must successfully complete 15 credit hours of course work and earn a 3.5 grade point average to be eligible for membership. Those accepted into the Honor Society may participate in a special leadership development seminar.

Capstone Courses

All students graduating from Northwest College complete a capstone course as a part of their degree requirements. In capstone courses, students

- demonstrate their understanding of and ability to apply important knowledge and skills in their field as well as from general education;
- receive feedback on their work from professionals beyond the instructor;
- contribute information that will help faculty know how to redesign their curriculum so students more effectively master important knowledge and skills.

Extended Campus

Northwest College recognizes the need for education access and lifelong learning. The Office of Extended Campus provides educational opportunities in Park, Big Horn, and Washakie Counties.

Extended Campus credit courses duplicate the standards and requirements set at Northwest College. NWC offers on-site instruction and interactive television courses in several Basin communities. A new multi-classroom facility opened in Cody, Wyo., in October 2001. Residents seeking additional information about the programs and services available in their area are encouraged to contact the Office of Extended Campus.

Internet course delivery supplements site-based delivery. See the NWC Semester Class Schedule, the NWC Web site www.northwestcollege.edu, or use WebAdvisor for details on available courses.

Concurrent Enrollment

Concurrent enrollment courses are college-level classes offered by Northwest College where qualified high school students earn both high school and college credit. Northwest College offers these courses to give high school students around the Big Horn Basin an opportunity for advanced placement, additional opportunities for growth and educational development, and encouragement to continue their education after high school graduation.

To be eligible, high school students must seek admission at Northwest College as special students (see page 6). Students must then enroll in the course for both high school and college credit, meeting any college prerequisite requirements associated with the course. High school students must have signed approval by their high school principal or counselor to register in a concurrent enrollment college class.

More information is available from the NWC Enrollment Services Office or from high school counselors.

Tech Prep

Northwest College has Tech Prep agreements with high schools in Montana, Wyoming, and Idaho. To apply for

Tech Prep credit, students should visit the Extended Campus Office. See Alternative Credit Charges page 10.

Work Force Development and Continuing Education

The College provides a variety of training programs, certificates, and courses in which participants master the technical, problem-solving, and interpersonal skills expected for today's work force. Contract training can be customized for a specific business. Skill-focused sessions are open to those throughout the Big Horn Basin. For additional information, contact the Director of Workforce Development.

Cooperative Education, Independent Study, and Internships

Students are encouraged to complete an internship and/or cooperative-learning work experience in order to deepen their knowledge and build their employment skills. A number of the college's degree specializations require an internship experience. Faculty advisors and the Director of Cooperative Education Programs are excellent resources for identifying appropriate working-and-learning situations.

Students may complete a maximum of 12 credit hours of cooperative education, independent study, and internship credit to fulfill associate degree requirements, applying no more than six credits of any one of these options toward the total of 12 credits. To receive credit, students must enroll in these options and successfully meet their contracted learning objectives.

The college assesses regular tuition and fees for each credit. The Registrar notes the course on the student's transcript by listing the course, the credit earned, and the grade earned.

COOPERATIVE EDUCATION

Cooperative Education allows students to earn academic credit and gain on-the-job experience in paid positions related to their fields of study.

A student who wants to participate in the Cooperative Education Program may already be employed in a related field or may seek the assistance of the Cooperative Education Office in finding suitable employment. The employer always has the final decision in hiring. The student, a faculty advisor, the Cooperative Education Director, and the employer enter into an agreement which defines the student's learning objectives.

Eligibility for Cooperative Education differs for full-time and part-time students:

- Full-time students must concurrently enroll in a minimum of 12 credit hours. Cooperative Education is not considered part of the initial 12 eligibility hours.
- Part-time students must have completed at least 12 credit hours of post-secondary education.

Registration for Cooperative Education is open. However, if the paperwork is in place, it can be done at regular registration and will run concurrent with the semester. Students will be given start and end dates for their Cooperative Education experience along with a drop date in case the student decides to drop.

Students may apply for a total of six Cooperative Education credits. Each credit hour will equal 70 hours in the workplace.

INDEPENDENT STUDY

Independent study courses allow students to design individualized academic courses in cooperation with a full-time faculty member. Students may take up to three credits of independent study per semester but may apply only a total of six credits of independent study toward an associate's degree.

Students may obtain forms for independent study from the Instructional Offices.

INTERNSHIPS

The Internship program allows students to gain professional experience through placement with a business or organization within the Big Horn Basin or beyond. Internships may or may not be paid work experiences, but they all involve a structured planning and evaluation process. They provide students the opportunity to observe and participate in a profession.

Students may apply a total of six internship credits toward graduation.

For more information, contact a faculty member within the particular discipline of interest.

Developmental Courses

A strong foundation in math, writing, and reading is essential for college success. Students complete placement testing in these subject areas before they register for classes the first time. Students who do not score at the college level on these tests will be placed in courses designed to support development of these important skills. Developmental courses carry college credit but do not count toward graduation requirements. Students who believe their test scores do not reflect their proficiency in these subjects may take the computer test again or ask to complete a paper and pencil version.

Study skills are another important element for college success. Northwest College offers two one-credit courses to help students acquire these critical skills. HMDV 1000 and 1010 are useful in helping students master use of the electronic library, computer labs, and other important academic success skills. These courses **do count** toward graduation and are highly recommended for all students.

Adult Basic Education, GED and English as a Second Language

Designed to strengthen basic reading, writing, and math skills for adults, the Adult Basic Education (ABE) Program meets a wide variety of individual needs and responds to a diverse population of adult learners. Instruction is handled in small groups or by individual tutoring at no cost to participants.

Individualized and small-class instruction in preparation for the General Education Development (GED) Exam is offered throughout the year. Northwest College is a GED Testing Center. Individuals wanting to take the class or test can make arrangements with the Adult Basic Education Director.

English as a Second Language (ESL) is a program that teaches English language skills to adults whose first language is not English. The program seeks to develop an understanding of American culture and

society to facilitate effective citizenship. For further information, call the NWC Adult Basic Education Director.

Faculty Advisors

Each degree-seeking student is assigned a faculty advisor. These advisors assist students in career planning, course selection and the adoption of academic success skills.

To change a faculty advisor, students should complete a form in the Office of Instruction.

Students are encouraged to work closely with their advisor on a regular basis. This ongoing connection is critical to the greatest success with meeting transfer requirements.

Students can also find support for career planning, and academic success through Project Succeed and the Success Center.

Wyoming Department of Employment

The Wyoming Department of Employment has an office in the Nursing and Workforce Alliance Building. The staff in this office help students identify open jobs in Wyoming and across the country. Both the Department of Employment staff and the Director of Work-based Learning provide job-preparation workshops (e.g. résumé writing, interviewing skills, employment regulations, job success skills).

Community Education

Powell Valley Community Education, supported cooperatively by Northwest College and Park County School District Number One, provides traditional and online programs for personal enrichment, driver's education, and continuing education to residents of the Powell area. These courses cover a wide range of topics and carry no high school or college credit. Classes for adults are offered during the fall and spring semesters.

Suggestions for specific programs and instructors are welcome. For more information, call the Office of Community Education.

Noncredit classes are open to adults age 17 or older. Younger students are

welcome to enroll on a space-available basis with permission of the instructor. The instructor's decision will be based on the maturity level of the student, safety factors, etc. Exceptions will be made when classes are designed specifically for youth.

PVCE also has a partnership with Powell Valley Healthcare to coordinate the Powell Community Health Fair.

Cultural Programs

The College sponsors or hosts a wide variety of programs on topics of current interest. Performances are provided by from a variety of on and off campus individuals and groups. See the NWC Web site www.northwestcollege.edu for a calendar of events.

New Student Orientation

Commonly, the first six weeks of college life for new students is the most critical in helping students to find a comfortable place in the college environment. Northwest College's orientation program provides an opportunity for students to make new friends and become acquainted with faculty and staff in a casual, comfortable, and fun environment.

Orientation begins during the summer when new students gather on campus to engage in college success workshops, meet with advisors, schedule their semester classes, and tour the college campus and facilities. It then continues at the beginning of the fall semester with Kick-Off Weekend. Students engage in a variety of social activities that include rafting, hiking, field trips, barbecues, and many more fun activities.

NWC's orientation program has a high level of success due to the combination of adventure activities and academic workshops, as well as opportunities for students to meet each other and the college's faculty and staff in a non-threatening environment. This program is specifically designed to help students adjust to college life by developing social and academic contacts both before classes start in the fall and during those first critical weeks of the semester.

On-Campus Living Requirements

Students enrolled in 9 or more credit hours are required to live in college residence halls their first two semesters. Exceptions are freshmen age 21 or over; freshmen who are married or are single parents with custody of child(ren); students who have completed two semesters of full-time credit at Northwest College, or another college/university; Freshmen who are living at home with parents or legal guardians full time. Any exemptions must be applied for and approved by the Housing Office. Students enrolled in less than 9 credit hours are eligible to live in campus housing if space is available. Students who have children or minors living with them should explore housing options at Trapper Village West.

MEAL PLANS

Students residing in residence halls are required to participate in one of five flexible meal plan choices. Apartment residents can also participate in any of the meal plan options available. The *Traditional 19*, *Traditional 10* and *Traditional 5* plans offer unlimited seconds in the DeWitt Student Center Dining Hall. The *Flex 15* and *Flex 6* plans feature meals in the Dining Hall and *Flex* dollars for use in both the 7th Street Grille and the Dining Hall.

For complete information see the Housing or Apartment License Agreement/Contract.

IMMUNIZATION REQUIREMENT

For safety and protection, students residing on campus must provide proof of measles, mumps and rubella (MMR) immunization if born after 1956.

HOUSING APPLICATIONS

Admitted applicants are sent housing information and an application. Policies regarding visitations, noise, alcohol, and other controlled substances are enforced. Any other student wanting housing information may contact the Residence Life/Housing Office.

RESIDENCE HALL FACILITIES

Residents of all housing facilities must provide their own pillows, pillow cases, sheets, blankets, and towels. NWC will not be responsible for damages due to power surges caused by individual room overloads. Students must provide their own surge protectors. Residence halls are furnished and provide laundry facilities, voice mail, computer labs, etc. Each hall is managed by a full-time Area Coordinator with help from student Resident Assistants. Programs through the Residence Life Office promote student development.

Residence Halls

Ashley Hall—148-bed coed hall
Bridger Hall—144-bed coed hall
Cody Hall—180-bed coed hall
Colter Hall—88-bed women's hall
Lewis and Clark Hall—146-bed coed hall

APARTMENT FACILITIES

Trapper Village Main

Trapper Village Main consists of five apartment buildings containing one- and

two-bedroom apartments. Single students who have spent two or more semesters in residence halls, married students, and single parents are eligible for the apartments. Contact the Residence Life/Housing Office for details.

Trapper Village West

Trapper Village West consists of 61 one-, two-, three-, and four-bedroom apartments. Contact the Residence Life/Housing Office for details.

HOUSING DEPOSIT/DEPOSIT REFUND

Northwest College requires a \$125 housing deposit to reserve a space in the residence halls. Apartment deposits range from \$200 to \$300. Upon check-in, the deposit serves as a damage/contract breakage deposit.

The housing damage deposit will be refunded under the following conditions:

- Cancellation of housing contract or application prior to August 1 for fall semester, and December 1—apartments, December 15—residence halls, for spring semester. All cancellations must be in writing and addressed to Northwest College, Housing Coordinator, 231 West Sixth Street, Powell, WY 82435.
- If a student is denied admission by the college.
- When a student officially checks out of campus housing and is withdrawing from Northwest College because of academic suspension. The deposit, less any charges assessed for loss, damage, or outstanding debts owed to the college, will be refunded to the student.

The deposit will be refunded by mail within 60 days after fulfillment of the above conditions.

ROOM AND BOARD REFUND

Students who check out of the residence halls before the end of the contract period will forfeit the \$100 deposit and will not receive a room and board refund. Students completely withdrawing from the College will be refunded subject to the institutional Refund Policy. See pages 10-11.

There are no room and board refunds for students dismissed from the residence halls or Trapper Village Apartments. See the Housing or Apartment License Agreement/Contract for more details.

Child Care Services

Northwest's Child Care Center provides a warm and loving environment where children are offered diverse opportunities for growth and development. The individuality, uniqueness, and creativity of each child are respected and encouraged. Parent participation in the Center is welcome.

This well-equipped and staffed facility is located on campus. It accepts children of students, faculty, staff, and select college partners. Children must be ages 2-12 and toilet-trained. Child care is provided during daytime classes only. Bus service to and from the public schools and an after school program are offered. A child must be fully registered to attend the center. Parents may register their children at any time at the Child Care Center.

DeWitt Student Center

Northwest's DeWitt Student Center houses a 500-seat dining hall, the 7th Street Grille, a bookstore, a student lounge, a formal meeting room, and "Rock Bottom," a multipurpose activities facility. Offices located in the center include Residence Life, Food Services, Bookstore, and Student Activities and Intramurals.

Student Activities and Organizations

Students are encouraged to become involved with at least one campus activity or organization.

STUDENT GOVERNMENT

Students enrolled in six or more credit hours are automatically members of the Associated Students of Northwest College. The governing body of ASNWC is the Student Senate, which is composed of five officers and five general representatives elected in the spring semester and six additional general representatives elected in the fall. Through appointment or election by the Senate, students are represented on many college committees that assist in governance of the institution.

CLUBS AND ORGANIZATIONS

More than 30 clubs and organizations are available to students. Some are associated with academic disciplines (e.g. Art Club, Block & Bridle, Rod Burners, and Nursing Club), others with special interests (e.g. International Club, Trapper ACES, Young Democrats/Republicans, and Ski Club). Stop by the Student Activities and Intramurals Office in the DeWitt Student Center or the Student Senate Office in the Orendorff Building for a list of clubs/organizations and their advisors.

INTERCOLLEGIATE ATHLETICS

Northwest aspires to excellence in athletics as it does in all of its educational endeavors. Over the last half-dozen years, at least one of the college's men's or women's sports has been nationally ranked each year. Northwest offers a varsity athletic program of three sports for men and three sports for women—basketball, rodeo, and wrestling for men, and basketball, rodeo, and volleyball for women. Athletes are expected not only to excel athletically but also to be dedicated students of sound character. Scheduling is done in consideration of the academic commitments of athletes.

The sports program is supported by a cheerleading team, dance team, and the NWC Trapper Band.

INTRAMURAL SPORTS AND RECREATION

The intramural program offers the men and women of the campus community a structured, competitive schedule in over 30 activities during the semester. Activities are organized on a team and individual basis. The entire program is voluntary and free. Intramurals include such activities as men's, women's, and co-recreational softball, flag football, racquetball, floor hockey, volleyball, basketball, and golf.

Informal recreation offers an outlet to individuals who desire a less structured, non-tournament form of sport recreation. Facility schedules are set in conjunction with established program priorities in physical education and athletics. Attempts are made to maintain some facilities for informal recreation. The list of activities includes basketball, volleyball, badminton, racquetball, handball, and weight training.

THE JOHNSON FITNESS CENTER

The Johnson Fitness Center is a facility dedicated to promoting lifelong physical fitness, health, and wellness. The center provides equipment and programs that assist the individual in attaining goals in the areas of health, fitness, physical conditioning, athletic training, weight control, stress management, and personal enrichment.

OUTDOOR RECREATION

In addition to traditional sports activities, Northwest offers a broad variety of outdoor recreation opportunities. Organized courses in rock climbing, backpacking, spelunking, nordic and alpine skiing, kayaking, bicycling, and winter outdoor survival are offered throughout the school year. Trips and outings are also sponsored through various student organizations on campus.

RECREATION EQUIPMENT CO-OP

The Co-op is designed to make available to the students, faculty, and staff most of the equipment necessary to take advantage of both on-campus and off-campus recreational activities. Only members of the Co-op may check out equipment for non-class use. This includes intramural teams as well as individuals. Available equipment includes rackets, racquetballs, eye guards, basketballs, camping gear, climbing equipment, kayaks, etc. A complete list of equipment is posted in the Cabre Gym at the checkout station.

Career Planning

Students have several resources to aid in their career planning.

- The Student Success Center has a career library plus useful computer programs to help students make career choices. Students will find the center's counselors helpful guides as students develop résumés, interview skills, and job search strategies.
- The Cooperative Education Office posts temporary and full-time job announcements. The Director of the program helps students identify and complete cooperative education learning work assignments so students sharpen their work skills and develop a stronger résumé of job-relevant experiences.
- Academic advisors are a supportive resource for identifying career options. Advisors also guide students in the selection of courses and other learning experiences that will result in the learning needed to meet college and career goals.

Student Success Programs

The goal of the Student Success Programs is to provide support services to students so they can persist in their education. Those support services are described below.

ACADEMIC ADVISING

Degree-seeking students at Northwest are assigned academic advisors. The advisor is usually a professor in the student's indicated area of specialization. Those students who have not chosen a field of study are assigned to Student Success Center staff or faculty members. Students may change their degree specialization or advisor by completing a change of advisor/specialization form from Enrollment Services or the Office of Instruction (if changing only their advisor).

Establishing a productive student/advisor relationship is vital to each student's success. Advisors provide information and recommendations about appropriate courses needed to meet students' academic goals and act as resource and referral agents for other campus services. The Student Handbook has more

information about how to prepare to meet with an advisor.

ADULT (NONTRADITIONAL) STUDENT SERVICES

The Student Success Center has trained personnel to assist nontraditional students. The office provides support and personal and group counseling for adult students. Appointments can be arranged.

CAREER DEVELOPMENT AND INFORMATION

The Student Success Center provides a listing of career and college information. Career counseling and testing are available to students needing help in making career decisions. Educational assistance is available to students wanting help planning curricular paths to the institutions to which they plan to transfer. The office maintains a library of college catalogs from all over the United States. Appointments are available.

COUNSELING

Northwest College offers personal counseling in a professional and confidential atmosphere to students desiring it. Counselors strive to assist students in dealing with the sometimes stressful college environment, foster awareness of personal strengths and interests, and encourage students to take full advantage of the opportunities for academic and personal growth. Both individual and group counseling are available by appointment.

DISABILITIES SERVICES FOR STUDENTS

A variety of services and resources are available for students who qualify under Section 504 of the Rehabilitation Act of 1973 and The Americans with Disabilities Act. Any student enrolled at Northwest College who has a documented disability is eligible for assistance through the Student Success Center. NWC encourages individuals with disabilities to meet with the Director of the Student Success Programs in the Student Success Center for confidential assistance. Appointments are available.

TUTORING

The Student Success Center offers peer tutoring in many academic areas for students. Recruited from the student

body and recommended by the academic departments, the peer tutors represent both academic excellence and service to others. Tutoring services are free, and all NWC students are welcome to inquire about group or individualized tutoring.

HEALTH SERVICES

Northwest's on-campus health service is available to students enrolled in six or more credits on campus. The health service is staffed by a physician's assistant who provides routine medical care, laboratory testing, immunizations, care for sport injuries, and referrals. The cost of providing health service is partially covered by fixed fees. There are minimal charges for some services. Medications and physician or hospital charges are the responsibility of the student.

The campus is located six blocks from the hospital and is within easy access of medical clinics and offices. Students under 18 years of age must have an Emergency Treatment Form signed by a parent or guardian and placed on file at the Powell Hospital.

INTERNATIONAL STUDENT SERVICES

The Student Success Center provides support to all international students, providing assistance and referrals on immigration matters, coordination of campus and community services, and assistance with academic and personal concerns. Northwest College offers an intensive summer ESL Institute, based on sufficient enrollment.

MINORITY STUDENT SERVICES

The Student Success Center provides support to all minority students. Some of the services provided are academic advising, study groups, scholarship information, cultural activities, and student clubs. A study room with a small library is available, as is information about college resources and opportunities.

TRANSFER ASSISTANCE

Many Northwest graduates transfer to four-year colleges and universities throughout the country. Some application and scholarship information is available in the Student Success Center. Staff will help students understand and plan curricular paths compatible with the institution to which they plan to transfer.

Students are also encouraged to work closely with their academic advisors to select a transfer institution and to make the most appropriate course selections.

Project Succeed

The purpose of Project Succeed, a federally funded TRIO grant program, is to enhance academic performance and improve the campus climate for eligible students. The Project Succeed staff includes a director, a learning specialist, a career/transfer specialist, and a secretary – all of whom help students learn to solve problems that might hinder their success at NWC. To be eligible for this program, students must fall either within economic, first generation, or disability guidelines. (A first generation student is one whose parents have not obtained a four-year degree from a college or university.) The qualified and experienced staff assist students in many areas critical to their college success, including financial aid information, transfer and career guidance, professional tutoring, mentoring, and assistance with academic issues.

Hinckley Library

The John Taggart Hinckley Library, situated at the center of Northwest's main campus, is open seven days per week throughout the academic year. During the summer session, the Library is open five days a week. The Library is closed during college breaks.

Hinckley Library's book, periodical, microform, and electronic collections are developed in support of Northwest courses. The Library owns over 55,000 volumes and subscribes to over 400 periodical titles. In addition, the Library has an excellent collection of online full text databases, giving access to thousands of articles from magazines and journals. The Library is a member of the Wyoming Libraries Database (WYLD). An online catalog and automated circulation system access Northwest College holdings as well as holdings from throughout the State. Interlibrary loans supplement the Library's collection. The Library is a depository for government documents.

The Library provides facilities for using the following: personal computers, audio tapes, microfilm, microfiche, videocassettes, DVDs, CDs, phonograph

records, photocopy service, tape duplicating machine, typewriters, VCRs, and audio/stereo listening stations.

Hinckley Library serves all Northwest students, staff, and faculty, in addition to area residents. The Library handles over 1,000 interlibrary loan requests each year. Staff also answer reference questions; give library tours and online training, and assist patrons in locating materials and data.

Computer Services

Computers for student use are accessible from many locations across the campus. Students automatically have an account on campus with five megabytes of space. Through the network, students have access to both on-campus resources and off-campus Internet resources including electronic mail and Web browsing.

Northwest supports 21 labs strategically located throughout the campus. An additional computer lab is available at the Cody Center. These labs are utilized for scheduled classes and open hours for students. Each residence hall also has a lab with two to four computers available 24 hours a day at the discretion of the residence hall director. Residence rooms are currently wired for Internet access.

The Northwest College Web site address is www.northwestcollege.edu

Job Placement Services

Many students enrolled at Northwest are employed on a full- or part-time basis, both on and off campus. The Office of Work-Based Learning assists students in finding employment while attending college.

The following services are available to Northwest College students:

- vacancy notices for temporary, part-time, and full-time employment, and
- lists of potential employers.

The Wyoming Job Service operates a branch office in the Workforce Alliance Center. This office provides local, state and national job openings information as well as workshops to help students strengthen their job-search skills.

College Bookstore

A full-service bookstore provides books and class materials required for courses taught at the college. Complete lists of textbook and special project requirements are maintained. The bookstore also handles a wide assortment of sundries, special interest items, and books by local authors.

Transcripts

Students must submit written requests for official transcripts of Northwest College work to the Registrar in Enrollment Services. The college does not charge a fee for this service. The college reserves the right to withhold transcripts from students who have not met their financial obligations at the institution. Appeals to this policy shall be made to the College Grievance Officer.

Veterans

For veteran educational benefit information, contact the Registrar in Enrollment Services. Veterans who wish to use their G.I. Bill educational benefits must complete an application for veterans' benefits 60 days prior to enrollment to ensure payment the first month of the semester. Application may be made online at vba.va.gov or paper applications are available in the Registrar's Office. Continuing veterans must contact the Registrar when registering for classes to ensure timely certification.

Student Placement Testing

Northwest College is dedicated to helping students increase their levels of academic achievement. As part of this effort, the college staff and faculty want to be sure that students start their college work in English and mathematics at the most appropriate level. Also, many students need to build their reading comprehension skills in order to be successful with college work and to gain the most from their classes.

As part of our placement effort, Northwest College requires new students to arrive with an ACT score *and/or* to take the COMPASS test. A fee is charged for the COMPASS test. ACT or COMPASS scores are used to place students in the correct level of English, mathematics, and reading courses.

Students with an ACT score may take the mathematics or English COMPASS tests if they believe the ACT scores do not adequately reflect their abilities. If a student has an ACT composite below 19, the reading placement test is required.

The COMPASS test is a computerized multiple-choice assessment instrument that provides information to help advisors register students in the most appropriate classes. The three tests in the COMPASS assessment are: reading, mathematics, and English. Students may retake the COMPASS test if they believe the scores do not adequately reflect their abilities. Regardless of whether a student is taking one, two or all three of the tests, a \$10 fee is charged to individuals taking the COMPASS for the first time and a \$3 fee is charged to students retaking the COMPASS test. Students arrange to take these tests through the Enrollment Services Office.

Registration Procedures

The *Semester Class Schedule* contains detailed instructions about registration procedures and time lines. Copies are available each semester at Enrollment Services prior to early registration.

WEBADVISOR

Students may register for classes, add classes, drop classes, view

grades, or pay fees online at www.northwestcollege.edu/webadvisor.

AUDITING CLASSES

The privilege of auditing a course is extended to those who want to explore subject matter for which they are prepared without completing all requirements of a course. Auditors have full rights of class participation but don't receive credits or grades.

Students enrolled in 12 or more credit hours may, with permission of the instructor, audit a course and pay only the fees. Students enrolled in 11.5 or fewer credit hours will pay tuition and fees.

The Academic Calendar in the *Semester Class Schedule* notes dates students may switch from credit to audit or vice versa.

CLASS LOAD

The typical course load for full-time students is 14-18 credits.

Student Overload Policy. Students who want to take more than 20 hours must have a cumulative NWC grade point average of 3.0 or higher and approval of their advisor. First semester freshmen must have a cumulative high school GPA of 3.0 or higher and approval of their advisor. An overload fee will be charged for each credit above 20. This fee will be the per credit hour tuition in accordance with the student's residency classification.

COURSE CHANGES & WITHDRAWALS

Students wanting to change their original registration, either by adding, dropping, or withdrawing from courses, must obtain Change of Registration forms from Enrollment Services or online at www.northwestcollege.edu/webadvisor. No change in registration is made until a student returns a completed form, with necessary signatures, to Enrollment Services. Forms must be returned on or before specified dates, or they will not be processed. See additional information in Refund Policy and Dropping Courses, pages 10-11, and in WebAdvisor above.

Students who add a class to their original enrollments may do so for seven class days after the day of registration. Exceptions are – (1) courses which give one hour credit may be added upon the request of the instructor and with the approval of the division chairperson up to mid-term of the course; and (2) instructors within a particular subject area

are authorized to transfer students from one level to another within that particular subject area.

A student may drop a course up to five class days following mid-term.

Students wanting to terminate enrollment at the college must request, complete, and return an official Withdrawal Form and the Exit Survey available at the Student Success Center or Enrollment Services. See the academic calendar for dates to withdraw from college without penalty.

Final Examinations

Final examinations are scheduled at the end of each semester. Instructors have the option of giving an exam, evaluation, critique, or review, but classes will meet at the time scheduled. A student who has three or more exams falling on the same day may petition one of his or her instructors to change the day of the exam.

Repeating Courses

Students may repeat a course in an attempt to improve their grade. However, the grade earned the second (or most recent) time will be the grade of record. The most recent grade stands even if it is worse. The grade point average is adjusted accordingly, with only the latest attempt counted in the cumulative grade point average and total credits earned. The original grade remains on the transcript but is not applicable to degree requirements or computation of the grade point average.

Variable credit courses are not considered "repeats," unless the instructor provides written certification that the course content was, in fact, repeated.

Credit by Examination

Northwest College participates in testing programs such as the Advanced Placement Examination (AP), and credit by examination. Students may earn up to 15 hours of college credit by demonstrating competency in particular college courses. Only the academic division concerned may initiate an exception to the limit of 15 credit hours.

To qualify for these options, students must register as certificate or degree

candidates at Northwest College during the semester in which they apply for the credit.

Students may not earn credit by examination in a course if they have earned credit previously in a higher level course in the subject area. Nor may a student challenge a course to remove a failure or to raise a passing grade he or she received in the course.

Students must earn all credit by examination before mid-term. For challenge examinations, the college assesses an administrative fee for each credit earned. See Alternative Credit Charges page 10. The Registrar notes successfully earned credit on the student's transcript by listing the course, the credit earned, and a grade of "S."

ADVANCED PLACEMENT EXAMINATIONS (AP)

Northwest College grants college credit to those students who have completed Advanced Placement Examinations (AP) of the College Entrance Examination Board. To receive AP credit, students must earn the equivalent of a "C" or better (AP scores of 3, 4, or 5). The college assesses a non-refundable fee for each examination.

Contact the Registrar for more information.

CHALLENGE EXAMINATIONS

Challenge Examinations—In

General. Students may petition for examination in any lower division course not carrying prerequisites, except for wellness education activity courses. The college allows credit based on the testing procedure acceptable to the academic division concerned, subject to review by the Dean of Instruction. For more information, students should consult with their academic advisors.

Challenge Examinations—Foreign

Languages. To obtain credit in foreign languages for previous study, a student should enroll in the highest level course appropriate to the student's skill. The student determines this by consulting with the instructor or by self-placing according to the prerequisite guidelines for each course. The college will grant credit for a lower level course automatically to a student who achieves a "B" or above in the course in which the student enrolls, *provided the student has filed a petition and paid the applicable fees by mid-term.* A student may not earn more than 12 hours of petitioned credit in any foreign language.

Students who have previous foreign language experience but do not want to enroll in a language course at Northwest College may petition for foreign language credit through alternate means, such as Self-Acquired Competency or a CLEP examination.

Self-Acquired Competency Credit

Students may apply up to 15 hours of credit based upon self-acquired competencies toward a Northwest College associate's degree. The college may award this credit either as

- equivalent NWC courses; or
- general credit in an academic area.

To earn credit for self-acquired competencies, a student petitions for credit in a particular course and submits a portfolio supporting the petition. A team of faculty identifies the contents of the portfolio, reviews the portfolio, interviews the student (if necessary), and assigns any credit they feel is appropriate.

The college assesses an administrative fee for each credit earned by examination. See Alternative Credit Charges on page 10. The Registrar notes successfully earned credit on the student's transcript by listing the course, the credit earned, and a grade of "S."

Students may obtain specific information on credit for self-acquired competencies by contacting the Instruction Office.

Grading Policies

Grades are recorded by letters and computed to grade averages by points.

A	Excellent	4.0 points
A-		3.7 points
B+		3.3 points
B	Above Average	3.0 points
B-		2.7 points
C+		2.3 points
C	Average	2.0 points
C-		1.7 points
D+		1.3 points
D	Below Average	1.0 point
D-		0.7 point
F	Failure	0.0 point
U	Unsatisfactory	0.0 point
S	Satisfactory	0.0 point
W	Withdrawn	

WD	Withdrawal	0.0 point (Does not appear on transcript.)
I	Incomplete	
N	No Grade Reported	
AU	Audit	

Attendance Policy

Northwest College has an attendance policy: one clock hour of unexcused absence for each credit offered (for example, a three credit course = three clock hours of unexcused absences allowed). After the allowed absences have been taken, the instructor has the prerogative to reduce the student's grade by one grade per absence beyond the number allowed.

Students who miss class while officially representing the college are directly responsible for seeing that all assignments, written lessons, labs, quizzes, tests, and exams are made up promptly. Such authorized absences merely give the individual who missed the class an opportunity to make up the work and in no way excuse the student from work required by the instructor.

Grade Point Average

The grade point average is found by weighing the grades of A through F, by the points assigned to each grade, and multiplying the number of credit hours by the weighted grade of each course. To determine the average, the sum of all of these courses is divided by the total number of hours attempted by the student. Satisfactory grades, marked "S," are not used in computing grade point averages. A student may repeat a course to raise a grade. Only the repeat course counts in the cumulative grade point average. The original grade remains on the transcript but is not averaged. See page 21.

GRADE REPORTS

NWC does not mail final grade reports. Students may view and print their grades online at www.northwestcollege.edu/webadvisor (see WebAdvisor page 21).

Mid-term progress reports give students an opportunity to check their progress and enrollment as listed by the Registrar. Grades of "S" and "U" are usually reported at this time, although instructors have the option of giving letter grades; students are given warning of any

deficiencies. These grades are temporary and are not posted to any records. Students may also view these grades through WebAdvisor.

HONOR ROLLS

Students who have earned 12 credit hours (in college-level course work — see list of Below College-Level Courses on page 29), with at least a 3.5 grade point average are eligible for honor roll listing; those who have achieved a 4.0 on 12 hours are eligible for the President's Honor Roll.

GRADUATING WITH HONORS

Students who meet the following criteria will graduate from Northwest College “with honors.”

- Complete a minimum of 30 hours at Northwest College.
- Have a minimum, cumulative NWC grade point average of 3.5 (college level credits only).

Identification of students graduating “with honors” at spring commencement is based upon meeting the qualifications the previous fall semester. “With honors” notation on students’ permanent records is based upon final transcripts.

INCOMPLETE POLICY

The “I” notation is used only when the student, for reason beyond the student’s control, is unable to finish the work of the course, and in such instances only when the student would otherwise have had a passing grade. An “I” must be accompanied by an “Incomplete Request Form” prepared and signed by the instructor and the student.

A student who has received an incomplete must arrange with the instructor for completion. The course must be completed by a date mutually agreed upon by the instructor and the student, but no later than one year from the date received. A student making up an incomplete grade should not reregister for the course. If the course is not completed by the deadline, it will default to an “F” grade. An incomplete cannot be changed to an audit or withdrawal.

The “Change of Grade” form will be submitted to the Registrar by the instructor when the course is completed.

General Code of Student Conduct

The General Code of Student Conduct prohibits misconduct on college premises (buildings or grounds owned, leased, operated, controlled, or supervised by Northwest College) or at any college sponsored event or activity whether it be on or off campus. The code may also address off campus conduct at non-college sponsored events when the behavior or the presence of the individual, in the college’s judgment, impairs, obstructs, or interferes with the mission, processes, or functions of Northwest College.

Firearms, explosives, and weapons are prohibited from being carried on campus. These include, but are not limited to, guns, firecrackers or other explosives, live ammunition, flares, large knives, and swords. The residence halls provide gun lockers for students living on campus. All target and hunting weapons and ammunition must be checked in with residential life staff.

Northwest College has regulations covering possession or consumption of alcoholic beverages and controlled substances (including marijuana) on the campus. The campus area is extended to cover academic, athletic, or recreational trips sponsored by the college.

Students who are in any way financially indebted to the college, or who have failed to account for college property placed in their possession, may be denied any services until they have made satisfactory settlement.

Other behaviors which may result in disciplinary action include academic dishonesty, extortion, intimidation, misuse of computers and the Internet, physical abuse, misappropriation or destruction of institutional or personal property, and activities which inhibit the rights of others, compromise or interfere with the learning of other students, or bring discredit to the institution and its members. The official campus body for hearing appeals in disciplinary cases is the Student Appeals Board.

More details on standards of conduct and disciplinary process and procedures are found in the Student Handbook available in the Dean of Students’ Office.

Academic Code of Conduct

Northwest College is committed to creating and maintaining an environment of academic honesty. It is the faculty’s responsibility to affirm the importance of academic integrity and to try to educate students as to standards of academic behavior. **Northwest College expects each faculty member to**

- foster a respect for learning,
- treat students with individual attention and consideration,
- provide an environment of trust in the classroom,
- clarify expectations for students,
- develop fair and relevant forms of assessment,
- reduce opportunities to engage in academic dishonesty,
- challenge academic dishonesty when it occurs, and
- help define and support campus-wide academic integrity standards. Students, too, bear the responsibility for academic integrity. Northwest College expects each student to
- learn and comply with academic expectations,
- display appropriate conduct in classroom situations,
- accept Northwest College’s “Student Academic Rights” and “Student Academic Responsibilities,” and
- preserve academic integrity by upholding the spirit and letter of the Academic Code of Conduct.

Violations of academic integrity include but are not limited to plagiarism, cheating, trafficking, and copyright infringement.

Breaches of the Academic Code of Conduct may result in a failing grade for the assignment, failure in the course, or other disciplinary actions as established by the college.

More details on Academic Code of Conduct are found in the Student Handbook available in the Dean of Students’ Office.

Student Appeals

The Student Appeals Board hears students’ appeals on actions by the Dean of Students in student conduct matters and by the Dean of Instruction in academic conduct matters. The Appeals

Board will also hear appeals regarding residency reclassification, exceptions to academic policy, decisions on academic dismissal, financial aid, suspension, and other such matters.

Only after the student has pursued appropriate channels in disciplinary matters (see the Dean of Students) or academic matters (see faculty first, then the division chairs, then the Dean of Instruction) and remains dissatisfied with the results, may the process of appealing to the Student Appeals Board be initiated.

Academic Probation, Suspension, and Dismissal Policy

A student in *good standing* maintains a cumulative GPA (CumGPA) of at least 2.0.

Academic probation occurs when

- a student's Northwest College CumGPA falls below 2.0.

Continued probation occurs when

- a student on academic probation fails to raise the CumGPA to at least 2.0 but maintains a semester GPA of 2.0 or better.

Academic suspension occurs when

- a student on academic probation or continued probation fails to maintain a semester GPA of at least 2.0.

Academic suspension is not appealable. Available options are: a full-time student (12 or more credits) may either enroll in not more than six (6) credit hours until restoring the CumGPA to at least 2.0 or sit out one academic semester. A part-time student (less than 12 credits) may either enroll in three (3) credit hours (or **one** course that may exceed three credits) or sit out one academic semester. If the student chooses to sit out one academic semester he/she would enroll the subsequent semester as "returned on probation."

Returned on probation occurs when

- a student enrolls after sitting out a semester due to academic probation.

Academic dismissal occurs when

- a student "returned on probation" after

being placed on academic suspension fails to maintain a semester GPA of at least 2.0.

Academic dismissal permanently ends a student's enrollment at NWC. Students on academic dismissal may appeal their status by petitioning the Student Appeals Board. (See the *Student Handbook & Academic Planner* for "Appeals Board Process and Procedures.")

Academic Amnesty

Academic amnesty is Northwest College's policy of forgiveness for a student's prior unsuccessful academic record at NWC. Academic amnesty permits students to initiate a new grade point average at NWC that is not affected by the previous unsuccessful record.

Students must successfully complete at least 24 additional credit hours at Northwest College before applying for academic amnesty and be currently enrolled at Northwest at the time of application. "Successfully complete" means a minimum grade point average of 2.5 GPA, with no course grade lower than "C" for 24 credit hours. Once the 24 credit hour requirement has been successfully completed, students seeking academic amnesty may then petition in writing for academic amnesty to the Student Appeals Board. The petition shall specify the semester(s) for which amnesty is requested and such other relevant data as the student deems necessary. The decision of the Student Appeals Board shall be transmitted to the student, the Registrar, the Dean of Students, and the Dean of Instruction.

If amnesty is granted, the entire previous NWC academic record will remain intact on the student's permanent record or transcript, but that previous unsuccessful record period will not be considered for grade point average computations or for satisfying NWC graduation requirements. Students granted amnesty will have an annotation listed on their NWC permanent record or transcript concerning the implementation of this policy, to include a brief definition of NWC's amnesty policy; an indication of exactly which portion of the record or transcript is being forgiven or neutralized (precise start dates and end dates); and the date that amnesty was granted

by NWC. Students may petition for academic amnesty only once.

Academic Exception Policy

Certain problems encountered by students may result in a request to have an exception made to an academic policy or regulation of the college. A student may request such an exception by writing a letter of explanation and outlining the reasons for the request. The completed letter should be delivered to the Registrar, who will then route it to the proper committee or office for consideration. The student has the opportunity to appear before the committee to answer questions relative to the request. When a decision has been reached, the student will be notified.

Transferring from Northwest

Most students seeking an Associate of Arts or an Associate of Science degree plan to transfer to a college or university and pursue a Bachelor of Arts or Bachelor of Science degree. Students are strongly encouraged to work closely with their academic advisors to select NWC courses that will meet requirements at the transfer institution. Students are also encouraged to contact the Registrar or Transfer Counselor/Advisor at the transfer institution to confirm requirements and determine if pre-approval of transfer courses is permitted and/or if dual enrollment is an option. Typically, college-level courses at NWC in which a student receives a grade of "C" or better will transfer but transfer institutions may have unique requirements. Here's how the process works.

- As soon as possible, inform your NWC academic advisor of your transfer choice(s).
- Apply for admission at the school to which you wish to transfer.
- Go to the Enrollment Services Office and fill out a transcript request form. This form asks where you would like your transcript sent. Your transcript will be sent to the institution(s) of your choice. Transfer institutions require official transcripts sent directly

from Northwest College.

- Upon acceptance at your transfer institution, you may request to have your Northwest College transcript evaluated. If you have any difficulties getting a course or courses transferred, call your Northwest College academic advisor and/or the Associate Dean of Instruction for assistance.

Transfer guides for many schools are available in the Student Success Center.

NOTE: At some out of state institutions completion of an AA or AS degree will constitute completion of general education requirements at the transfer institution.

WICHE

The Western Interstate Commission for Higher Education sponsors students who are Wyoming residents as they continue their professional education out of state. Accepted applicants may attend a transfer institution for its in-state tuition rate. WICHE programs at NWC include: physical therapy, occupational therapy, optometry, architecture, and physician's assistant. Applications are due by October 15 of the year preceding the year of transfer. Additional information is available from the Student Success Center.

Degrees/Certificates Offered

A sample degree worksheet is located in the back of this catalog.

ASSOCIATE OF ARTS (AA)

The Associate of Arts degree provides a broad-based education for those planning to transfer to a four-year institution and for those seeking a two-year general education. The Associate of Arts degree may be taken in General Studies or Liberal Studies (see worksheet at back of catalog). The Associate of Arts is the best choice for individuals who are undecided and for those who do not yet know where they will transfer.

ASSOCIATE OF SCIENCE (AS)

The Associate of Science degree provides a specialized program of study for those planning to transfer to a four-year institution. Generally, the degree aligns itself to the special requirements of a preprofessional course of study at a four-year institution.

ASSOCIATE OF APPLIED SCIENCE (AAS)

The Associate of Applied Science degree prepares an individual for employment opportunities upon graduation. All applied science degree programs offer a concentration with a required curriculum.

NORTHWEST COLLEGE CERTIFICATE

The Northwest College Certificate provides recognition for those who have completed 60 credits or above of college-level work but who have not fulfilled degree requirements.

NORTHWEST COLLEGE SKILLS CERTIFICATE

The Northwest College Skills Certificate provides a concentrated amount of college-level course work in a highly specialized area of study within a designated period of time. These certificates vary from **6 credits to 32 credits** depending upon the selected area of study. Skills certificates vary according to the needs of students, the community, and the economy. Students should check individual departments for specific Skills Certificates and requirements in a given area. College-level courses taken for a certificate may also be applied to a Northwest College AA, AS, or AAS degree.

Requirements for Graduation

Associate degrees offered at Northwest College include three categories of course work: 1) all-college degree requirements (*including Capstone Course*), 2) general education requirements, and 3) elective courses. Only college-level courses count toward degrees. (*See specific programs of study for recommended courses.*)

To receive a degree, students **MUST** apply to graduate. Forms are available in Enrollment Services. See Application for Graduation page 30.

ALL-COLLEGE DEGREE REQUIREMENTS

In order to be awarded an associate's degree from Northwest College, individuals must:

- Complete 64 credits of college-level course work with an overall grade point average of at least 2.0;
- Take 15 of the last 30 credits to be applied toward the degree from Northwest College;
- Successfully complete a Capstone Course;
- Meet all general education requirements for the specific degree.

PHILOSOPHY OF GENERAL EDUCATION

An education prepares a student both for life and for making a living. It blends the practical application of knowledge with the pursuit of knowledge for its own sake. When successful, education balances the sometimes contradictory claims of social service and individual ambition.

A good general education fosters freedom's values and nurtures individual growth. It lays the foundation for further learning in a discipline or vocation, provides the tools to navigate change, and prepares one for life-long learning.

The purpose of general education at Northwest College is to shape the development of students according to these values.

COLLEGE LEARNING OUTCOMES

In 2000, the College adopted Speaking, Writing, Analysis, and Recognition of Multiple Points of View as All-College Outcomes. In 2003, Informational Technology Literacy was added and the following specific outcomes were approved for each of these categories.

Analysis – Students will isolate a pertinent question or problem; identify appropriate problem-solving strategies; use mathematical approaches when warranted; access and evaluate data effec-

General Education Requirements

CATEGORIES	AA Credits	AS Credits	AAS Credits
American and Wyoming Government ¹	3-6	3-6	3-6
English	6	6	6
Business Communication			6
Mathematics	3	10 ²	3
Lab Science	4		
Humanities ¹	9		6
Visual and Performing Arts ¹		9	
Social Science ¹	6		
Multi-Cultural Awareness ¹	6	1-4 ^{1,3}	
Wellness	2	2	2
TOTAL CREDITS	36-42	31-37	20-23

¹ Some courses may be used to fulfill two categories of requirements.

² At least one course from each area. At least one course must be a Lab Science.

³ One course from approved list. See page 27.

tively and efficiently; draw warranted, logical conclusions; and present convincing evidence to support conclusions.

Multiple Points of View – Students will identify differences in the attitudes, values, core beliefs, data and/or assumptions that shape multiple points of view in relation to a particular problem, project, or topic (e.g., alternative theories or theorists, competing models, different modes of representation, dynamics of differences in culture, ethnicity, national origin, gender, economic status, generational association and other social issues); integrate this recognition of multiple points of view in a variety of academic tasks; articulate multiple points of view through writing and speaking.

Oral Communication – Students will compose messages for oral communication that utilize standards of organization, analysis, and adaptation to various audiences; display effective oral presentation techniques; demonstrate active listening techniques including feedback, demonstrating appropriate audience behavior, and identify main ideas in a spoken message.

Writing – Students will produce informative, analytical and critical prose to respond to a particular task or audience; produce writing that conforms to discipline-specific conventions; use appropriate research skills in at least one substantial writing assignment; observe the conventions of standard written English.

Information and Technology Literacy – Students will apply appropriate technological resources to a specific task; utilize technological equipment connected to their area of specialization; access and evaluate print and electronic information effectively and efficiently to address a particular problem, project or activity; demonstrate and apply an understanding of many of the legal, ethical, and educational issues surrounding access to and the use of information.

GENERAL EDUCATION REQUIREMENTS

American and Wyoming Government (3-6 credits)

POLS 1000 American and Wyoming Government (3), or HIST 1221 United States from 1865 (3), or a combination of HIST 1210 United States History I (3) and HIST 1250 History of Wyoming (3).

English (6 credits)

AA and AS Degrees only

ENGL 1010 English I: Introduction to Composition (3), and **one** of the following: ENGL 1020

English II: Introduction to Literature (3), ENGL 2017 Introduction to Research (3), ENGL 2010 Technical Writing (3), or ENGL 2030 Critical Reading and Writing (3).*

English/Business Communication (6 credits)

AAS Degree only

ENGL 1010 English I: Introduction to Composition (3), and one of the following: ENGL 1020 English II: Introduction to Literature (3), ENGL 2017 Introduction to Research (3), ENGL 2010 Technical Writing (3), ENGL 2030 Critical Reading and Writing (3), or BADM 1020 Business Communication (3).**

Humanities/Visual and Performing Arts (9 credits)

AA Degree only

Six credits to be selected from one of the following groups, three credits to be selected from the other:

Group A (Humanities):** humanities, journalism, English, philosophy, foreign language, speech communication, and history.

Group B (Visual and Performing Arts):** art, music, theatre, and dance.

Humanities/Social Science/Visual and Performing Arts (9 credits)

AS Degree only

Nine credits to be selected from at least two fields from among humanities, visual and performing arts, or social science.

Humanities/Social Science/Visual and Performing Arts/Science (6 credits)

AAS Degree only

Courses must be selected in two fields from among science, humanities, visual and performing arts, or social science.

* For transfer to the University of Wyoming, consider one of the following: ENGL 1020 and ENGL 2030. For transfer to Montana State University–Bozeman, consider one of the following: ENGL 2017 or ENGL 2030. For transfer to Montana State University–Billings, consider ENGL 2017 (each department or school sets its own advanced writing requirement). For those undecided about a transfer institution, consider ENGL 1020.

** For associate of applied science degrees, refer to your specific program of study.

*** Some courses may not satisfy the degree requirement. Please refer to the Courses Meeting General Education Requirements section on page 28.

Mathematics (3 credits)

AA Degree only

Courses must be selected from college-level statistics (STAT) or mathematics (any MATH 1000 and above except MATH 1510).

Mathematics (3 credits)

AAS Degree only

Any college-level mathematics course, or BADM 1005 Business Mathematics.

Mathematics/Science (10 credits)

AS Degree only

At least one course must be selected from college-level statistics (STAT) or mathematics (any MATH 1000 and above except MATH 1510). At least one course must be a laboratory course in astronomy, biology, chemistry, geology, physics, or zoology, or AECL 2010 or AECL 2020.

Multi-Cultural Awareness (6 credits)

AA Degree only

Courses selected from the approved list of courses meeting this requirement (see page 28). Three credits meeting this requirement may also apply toward the humanities, social science, or visual and performing arts requirement, depending on the specific nature of the credits taken.

Multi-Cultural Awareness (1-4 credits)

AS Degree only

One course selected from the approved list of courses meeting this requirement (see page 28). Up to three credits meeting this requirement may also apply toward the humanities, social science, or visual and performing arts requirement, depending on the specific nature of the course taken.

Science (4 credits)

AA Degree only

Course must be a laboratory course in astronomy, biology, chemistry, geology, physics, or zoology.

Social Science (6 credits)

AA Degree only

Six credits selected from two fields of study: anthropology, economics, geography, history*, political science, psychology, sociology, or AGECE 1010 or AGECE 1020. No more than three credits from any one field may apply toward the degree requirement.

Wellness Education (2 credits)

See Wellness Education, page 29.

* Some courses may not satisfy the degree requirement. Please refer to the Courses Meeting General Education Requirements section on page 28.

ASSOCIATE OF ARTS DEGREE

Fulfill all-college degree requirements.

Summary of AA Degree Requirements:

	Credits
American and Wyoming Government	3
or	
United States from 1865	3
or	
* US/Wyoming History combination	6
English	6
Humanities/Visual and Performing Arts	9
Mathematics	3
** Multi-Cultural Awareness	6
Science	4
Social Science	6
Wellness Education	2
TOTAL	36-42

Specialization Core and Electives..... 22-28

* Three credits may apply toward the Social Science requirement.

** Three credits may apply toward the Social Science, Humanities, or Visual and Performing Arts requirement.

**ASSOCIATE OF ARTS / SCIENCE
IN GENERAL STUDIES**

Individuals who meet all requirements of the AA/AS degree will be awarded the degree with the designation of General Studies.

**ASSOCIATE OF ARTS
IN LIBERAL STUDIES**

This course of study is identical to the AA in General Studies, except the Multi-Cultural Awareness category is increased to eleven credits. Eight credits must be taken in a single foreign language; three credits must be taken in a non-foreign language course from the approved list of Multi-Cultural Awareness courses. The non-foreign language course only may be double-counted to meet another appropriate degree requirement. This degree option becomes particularly important as many four-year colleges and universities, including the College of Arts and Sciences at the University of Wyoming, are instituting foreign language requirements for graduation with a bachelor of arts degree.

ASSOCIATE OF SCIENCE DEGREE
Fulfill all-college degree requirements.

Summary of AS Degree Requirements:

	Credits
American and Wyoming Government	3
or	
United States from 1865	3
or	
* US/Wyoming History combination	6
English	6
Humanities/Social Science/Visual and Performing Arts	9
Mathematics/Science	10
** Multi-Cultural Awareness	1-4
Wellness Education	2
TOTAL 31-37	

Specialization Core and Electives.....27-33

** Three credits may apply toward the Social Science requirement.*

*** Three credits may apply toward the Social Science, Humanities, or Visual and Performing Arts requirement.*

**ASSOCIATE OF APPLIED SCIENCE
DEGREE**

Fulfill all-college degree requirements.

Summary of AAS Degree Requirements:

	Credits
American and Wyoming Government	3
or	
United States from 1865	3

or	
* US/Wyoming History combination	6
English/Business Communication	6
Humanities/Social Science/Visual and Performing Arts/Science	6
Mathematics	3
Wellness Education	2
TOTAL 20-23	

** Three credits may apply toward the Social Science requirement.*

All students must complete the required course of study within the selected field in order to receive an AAS degree.

**NORTHWEST COLLEGE
CERTIFICATE**

To be awarded the Northwest College Certificate, individuals must:

- Complete 60 credits of college-level course work with an overall grade point average of at least 2.0;
- Take 15 of the last 30 credits to be applied toward the certificate from Northwest College;
- Take a minimum of one course from five of the seven following areas:
Humanities
Mathematics
Multi-Cultural Awareness
Science
Social Science
Visual and Performing Arts
Wellness Education

**NORTHWEST COLLEGE SKILLS
CERTIFICATE**

To be awarded the Northwest College Skills Certificate, individuals must:

- Complete the minimum number (6-32) of required credits of course work with an overall grade point average of at least 2.0;

**Courses Meeting
General Education
Requirements**

ENGLISH

ENGL 1010—English I: Introduction to Composition
ENGL 1020—English II: Introduction to Literature
ENGL 2010—Technical Writing
ENGL 2017—Introduction to Research
ENGL 2030—Critical Reading and Writing
BADM 1020—Business Communication (AAS only)

HUMANITIES

All English courses numbered 2000 or above.

All foreign language courses of three (3) or more credits.

All humanities courses. [HUMN 2460 Field Studies: (1-3) might not be accepted for transfer by senior institutions.]

All philosophy courses.

CO/M 1010—Public Speaking (3)
CO/M 1030—Interpersonal Communication (3)
CO/M 1040—Introduction to Human
Communication (3)

CO/M 2090—Introduction to Persuasion (3)
CO/M 2110—Nonverbal Communication (3)
CO/M 2120—Small Group Communication (3)
CO/M 2125—Family Communication (3)
CO/M 2150—Argumentation (3)
CO/M 2250—Organizational Communication (3)
GRAR 2650—Literary/Art Magazine Production (3)
GRAR 2750—Magazine Editing and Management (3)
HIST 1110—Western Civilization I (3)
HIST 1120—Western Civilization II (3)
JOUR 1000—Introduction to Mass Media (3)
JOUR 2250—Literary/Art Magazine Production (3)
JOUR 2270—Magazine Editing and Management (3)

MATHEMATICS

All college-level courses in mathematics and statistics.
BADM 1005 and MATH 1510 for AAS programs only. For nursing students: NRST 1610 (2 credits), NRST 1620 (½ credit), NRST 1630 (½ credit).

MULTI-CULTURAL AWARENESS

AGEC 1010—Agricultural Economics I (3)
ANTH 1200—Introduction to Cultural
Anthropology (3)
ANTH 1300—Introduction to Archaeology (3)
ANTH 2200—World Ethnography (3)
ANTH 2210—North American Indian Cultures (3)
ANTH 2350—Biblical Archaeology (3)
ART 1010—Introduction to Art (3)
ART 2010—History of Art I (3)
ART 2020—History of Art II (3)
BADM 1020—Business Communication (3)
BUSN 2000—Introduction to International
Business (3)
CO/M 2110—Nonverbal Communication (3)
ENGL 2170—The Bible as Literature (3)
ENGL 2210—English Literature I (3)
ENGL 2220—English Literature II (3)
ENGL 2230—Introduction to Shakespeare (3)
ENGL 2280—Introduction to Mythology (3)
Foreign language—any course of 3 credit hours
or more.

G&R 1000—Introduction to Geography (3)
G&R 1250—Geography of Travel and Tourism (3)
HIST 1110—Western Civilization I (3)
HIST 1120—Western Civilization II (3)
HIST 2070—The Holocaust: A Survey (3)
HIST 2112—19th Century Europe (3)
HIST 2115—20th Century Europe (3)
HIST 2120—Ancient Greece (3)
HIST 2130—Ancient Rome (3)
HIST 2140—Ancient Near East (3)
HIST 2290—North American Indians (3)
HUMN 2420—Introduction to Cross-Cultural
Studies (3)

HUMN 2445—U.S. Culture and Language for
Foreign Students (4)*

HUMN 2460—Field Studies: (1-3) [HUMN 2460
Field Studies: (1-3) might not be
accepted for transfer by senior
institutions.]

MUSC 1000—Introduction to Music (3)
MUSC 2010—American Popular Music (3)
MUSC 2050—Music History Survey I (3)
MUSC 2055—Music History Survey II (3)
PHIL 2311—Philosophy of Religion (3)

POLS 2010—Comparative Government (3)
 POLS 2310—Introduction to International
 Relations (3)

* Only for students whose first language is not English.

SCIENCE

All college-level courses in ASTR, BIOL, CHEM,
 GEOL, MOLB, PHYS, ZOO worth (4-5) credit hours,
 AECL 2010, and AECL 2020.

SOCIAL SCIENCE

All ANTH, CMRJ, ECON, G&R, HIST (except
 HIST 1110 and 1120), POLS, PSYC, SOC
 courses, and AGEC 1010 and AGEC 1020.

VISUAL AND PERFORMING ARTS

ART 1010—Introduction to Art (3)
 ART 1050—Drawing I (3)
 ART 1060—Drawing II (3)
 ART 1110—Design: 2-D (3)
 ART 1120—Design: 3-D (3)
 ART 1250—Beginning Waterbased Media I (3)
 ART 2010—Art History I (3)
 ART 2020—Art History II (3)
 ART 2050—Life Drawing I (3)
 ART 2055—Art in the Wild (3)
 ART 2090—Printmaking I (3)
 ART 2100—Computer Graphics I (3)
 ART 2210—Painting I (3)
 ART 2220—Painting II (3)
 ART 2310—Sculpture I (3)
 ART 2320—Sculpture II (3)
 ART 2410—Ceramics I (3)
 ART 2420—Ceramics II (3)
 ART 2430—Advanced Ceramics (3)
 ENTK 1510—Drafting I (3) [Does not count for
 Drafting Specialization.]
 MUSC 1000—Introduction to Music (3)
 MUSC 1030—Written Theory I (3)
 MUSC 1035—Aural Theory I (1)
 MUSC 1040—Written Theory II (3)
 MUSC 1045—Aural Theory II (1)
 MUSC 2010—American Popular Music (3)
 MUSC 2035—Aural Theory III (1)
 MUSC 2045—Aural Theory IV (1)
 MUSC 2050—Music History Survey I (3)
 MUSC 2055—Music History Survey II (3)
 MUSC 2057—Jazz History (3)
 All applied music lessons (2 credits maximum)
 PEAC 1330 (one credit only)
 THEA 2120—Oral Interpretation (3)

WELLNESS EDUCATION

(No individual course may be repeated for credit.)
 This requirement may be waived only for physical
 disability verified by a physician’s report. The
 Wellness Education requirement may be completed in
 one of three different ways:

OPTION 1

Two credits of any activity-based courses.* Activity-
 based courses include the following:
 PEAC courses
 PEAT courses
 OEAC courses
 Dance courses** with a physical education
 activity designator [PEAC] (one credit only)
 OEPR 1100—Introduction to Adventure
 Education (one credit only)
 OEPR 1250—River Studies (one credit only)
 OEPR 1200—Winter Outdoor Survival

OPTION 2

One credit of activity-based courses (see above) and

one credit of approved nonactivity-based courses.
 Approved nonactivity-based courses include:
 EDCI/OEPR 2450—Introduction to
 Adventure Education (2)
 HLED courses
 FCSC 1140—Nutrition (2)
 FCSC 1141—Principles of Nutrition (3)
 NRST 1660—Basic Emergency Care (3)
 NRST 1990—Topics: (1-3)
 PEPR 1040—Sport First Aid (2)

OPTION 3

One of the following courses:
 HLED 1270—Wellness (3)
 HLED 1271—Diet and Exercise (2)

* One hour of activity-based course work is waived for
 students taking an AAS in the Equine field.
 ** Only one credit of PEAC 1330—Dance Ensemble
 may be used as an activity-based credit.

**Below College-Level
 Courses**

Courses listed below are not college-level
 courses.

DVST 0104—Conversational English for
 Non-native English Speakers (3)
 DVST 0106—Reading and Writing for Non-native
 English Speakers (3)
 DVST 0510—Fundamentals of Reading I (1-3)
 DVST 0520—Fundamentals of Reading II (1-3)
 DVST 0600—Basic Writing I (3)
 DVST 0610—Basic Writing II (3)
 DVST 0890—Basic Skills Development (1)
 FREN 1050—Conversational French I (1-2)
 MATH 0900—Prealgebra (3)
 MATH 0920—Beginning Algebra (5)
 MATH 0930—Intermediate Algebra (5)
 SPAN 1050—Conversational Spanish I (1-2)
 SPAN 1060—Conversational Spanish II (1-2)

**Programs of Study
 Available**

ASSOCIATE OF ARTS

Students can graduate in General
 Studies without a disciplinary emphasis.
 In order to qualify for Veteran’s Benefits,
 veterans must pursue the Liberal Studies
 degree with an area of specialization. Both
General Studies and **Liberal Studies** are
 available with specializations in:

<u>PROGRAM</u>	<u>PAGE</u>
American Studies	44
Anthropology	59
Art	65
Communication	39
Education	60
Early Childhood	61
Elementary	60
Secondary	61
(with emphasis in subject area)	
English	45
Literary Studies	46

Writing	46
General Studies	28
Graphics	40/66
Design	40/66
History	62
Journalism	42
Print	42
Web/Broadcasting	42
Liberal Studies	28
Modern Languages	46
French	46
Spanish	47
Music	67
Political Science	62
Psychology	63
Religious Studies	63
Anthropology and Linguistics, Humanities and Philosophy, Historical Approaches	
Social Science	64
Sociology	64

ASSOCIATE OF SCIENCE

<u>PROGRAM</u>	<u>PAGE</u>
Accounting or Business Administration...	34
Agriculture	31
Agriculture Business	31
Agriculture Communications	32/39
Agriculture Education	32
Agroecology	32
Animal Science	33
Range Management	33
Archaeology Technology	59
Athletic Training	51
Biology	48
Chemistry	55
Computer Science	56
Drafting	56
Education	60
Early Childhood	61
Elementary	60
Secondary	61
(with emphasis in subject area)	
Engineering	57
General Studies	28
Mathematics	57
Music	67
Natural Resource Biology	49
Environmental Biology, Forestry, Resource Management, Wildlife Management	
Nursing	53
Occupational Therapy	49
Outdoor Education	51
Physical Education	52
Physical Therapy	50
Physics	58
Pre-Baccalaureate Nursing	53
Pre-Optometry	50
Pre-Pharmacy	50
Pre-Professional Sciences	51
Pre-Dentistry, Pre-Medicine, Pre-Veterinary	

ASSOCIATE OF APPLIED SCIENCE

<u>PROGRAM</u>	<u>PAGE</u>
Business	35
General Business, Accounting, Management, Marketing	
Business Technology	36
Administrative Assistant	36

Network Technician 36
 Help Desk Specialist 36
 Drafting 56
 Equine Business Management..... 37
 Equine Riding and Training 37
 Farm and Ranch Management..... 34
 Farrier Business Management 34
 Graphics..... 40/66
 Design 40/66
 Prepress Production 41/66
 Printing Production 41/66
 Music 67
 Music Technology 68
 Nursing 53
 Photographic Communications 42
 Production Agriculture 33
 Travel and Tourism 35
 Welding Technology 38

**NORTHWEST COLLEGE SKILLS
 CERTIFICATE**

PROGRAM	PAGE
Archaeological Technician	60
Electrical Apprenticeship (8 semesters)*	
General Office/Clerical Skills	37
MIG Welding.....	38
Production Agriculture	34
TIG Welding.....	38
Web Design and Application.....	42/66
Welding Technology.....	38
Word Processing.....	37

**The Electrical Apprenticeship program is designed to provide training for apprentices in the electrical industry. The training includes the study of the National Electrical Code and electrical theory principals and fundamentals. The program meets the required 144 hours of classroom instruction for apprentices mandated by the Department of Fire Prevention and Electrical Safety.*

ENDORSEMENTS

- Coaching*
- Journalism*

**NWC offers the lower division courses required for Wyoming endorsement in this area.*

**Application for
 Graduation**

Candidates for graduation are required to submit an application for graduation to the Registrar by the deadlines listed below to ensure all requirements can be met on time.

- For December graduation..... September 15*
- For May graduation..... March 15*
- For July graduation..... May 3*

**Earning A Second
 Degree**

Students who wish to earn a second degree from Northwest College may count 49 credits from the first degree toward the second degree. General education and specific program requirements for the second degree must be satisfied.

**Catalog Under Which a
 Student May Graduate**

A student may graduate from Northwest College by meeting degree requirements of the catalog in place at the time of initial enrollment, or may change “one time only” to the degree requirements of the catalog in place at the time of graduation. A student who doesn’t take classes for three or more consecutive years must use the degree requirements of the catalog in place at the time of re-entry to Northwest College. (See Nursing section for special requirements of this program.)

Cancellation of Classes

Northwest College reserves the right to cancel any scheduled courses in which the enrollment is insufficient to warrant offering the course or to change the days, time, location, or instructor of any course.

AGRICULTURE, TECHNOLOGY, and BUSINESS DIVISION

Faculty

C. White, Chairperson
 D. Bruce, V. Dooley, H. Elton, J. Marcin
 W. Johnson, B. Kolb, J. Kraft, B. Nisley,
 L. Satterlee, A. Sherwood, R. Violet,

Staff

J. Johnson, M. Sherwood, R. Mettes

Associate of Science Degree with specialization in

Accounting or Business Administration
 Agriculture Business
 Agriculture Communications
 Agriculture Education
 Agroecology
 Animal Science
 Range Management

Associate of Applied Science Degree

Business
 Business Technology –
 Administrative Assistant
 Business Technology –
 Network Technician
 Business Technology –
 Help Desk Specialist
 Equine Business Management
 Equine Riding and Training
 Farm and Ranch Management
 Farrier Business Management
 Production Agriculture
 Travel and Tourism
 Welding Technology

Northwest College Skills Certificate Option

Business Technology – General Office/
 Clerical Skills
 MIG Welding
 Production Agriculture
 TIG Welding
 Welding Technology
 Word Processing

Agriculture

Agriculture, in its broadest definition, is the nation's largest industry. Northwest College is located in a strong productive agricultural and agribusiness

region. This provides both the obligation and the opportunity to offer technologically advanced and theoretically sound career preparation. The explosion of knowledge in production efficiency enhancement has provided this nation the luxury of greater commodity production from constantly shrinking numbers of producers. To maintain this trend, we need more knowledgeable producers served by an increasing number of agriculture support services.

The richly interdisciplinary agriculture curriculum offers broad career preparation in fields related to animal agriculture, agronomy and agricultural economics. Laboratory work is stressed in all programs to enhance academic training. Students develop critical thinking and problem solving skills through the practical application of science and business management principles to farming and ranching situations. Direct experience with cattle, sheep, swine, and horses is provided at the Paul Stock Agricultural Pavilion and the Meat Processing Center. Feed and soil analysis combine experiences on college farm ground and in a modern laboratory. Case studies enhance the practical experiences of record keeping and analysis in modern computer laboratories.

Students considering a career in agriculture should prepare with a sound science and math foundation in high school. Serious assessment of career goals with an advisor will assist the student in proper selection of an appropriate program of study.

Agriculture Business

This specialization prepares students for careers in agribusiness or for transfer into agricultural business, agricultural economics, and farm and ranch management programs. The field involves the application of business and economic principles to farming and ranching enterprises and related industries. Employment possibilities are available in businesses which process and market agricultural products and those which sell products and services to producers. Additional opportunities exist in the operation of farms and ranches or in lending institutions. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to

a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in AGRICULTURE BUSINESS

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	31-37

Six credits of General Education may be fulfilled by taking Core Courses or Core Electives.

Core Courses

Number and Title	Credits
ACCT 1050—Practical Accounting.....	3
or	
ACCT 2010—Principles of Accounting I.....	4
AGEC 1010—Agricultural Economics I.....	3
AGEC 2020—Farm and Ranch Business Management (Capstone Course).....	4
AGRI 1010—Computers in Agriculture.....	3
TOTAL	13-14

Core Electives

Students must take three courses from the following list of approved courses.

Number and Title	Credits
AECL 1000—Agroecology.....	4
AECL 2010—Ecological Web: Soil.....	4
AECL 2020—Ecological Web: Agronomic and Horticultural Plant Biology (Capstone Course).....	4
AGEC 1020—Agricultural Economics II.....	3
AGEC 2010—Farm/Ranch Business Records.....	3
AGEC 2300—Agricultural Marketing.....	3
ANSC 1022—Animal Science I.....	4
ANSC 1024—Animal Science II.....	4
TOTAL	9-12

General Electives selected in consultation with advisor 11-20

Transfer and General Electives

Number and Title	Credits
BIOL 1000—Principles of Biology.....	4
MATH 2350—Business Calculus.....	5
STAT 2010—Statistical Concepts for Business.....	4
STAT 2050—Fundamentals of Statistics.....	3

MINIMUM CREDITS FOR DEGREE = 64

Agriculture Communications

Career opportunities include work in agriculture-related publications, radio, and television. Transfer options are available regionally and nationally. In order to achieve an AS with a specialization in agriculture communications, students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in AGRICULTURE COMMUNICATIONS

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Core Courses

Number and Title	Credits
AGRI 2385—Agriculture Communication/Leadership	2
ANSC 1022—Animal Science I	4
CO/M 2485—Sophomore Seminar: Communication (Capstone Course)	3
JOUR 1100—News Writing and Reporting I ..	3
JOUR 1240—Agriculture Communications Practicum	2
JOUR 2000—Broadcast Production	3
or	
JOUR 2140—News Editing and Layout	3
TOTAL	17

Core Electives

Students must take seven credits from the following list of approved courses.

Number and Title	Credits
AECL 2010—Ecological Web: Soil	4
AGEC 2300—Agricultural Marketing	3
AGRI 2390—Agriculture Literacy/Leadership .	2
JOUR 1010—Publications Production	1-2
JOUR 2000—News Writing and Reporting II.	3
PHTO 1610—Introduction to Photography ...	3

Transfer and General Electives

The following courses are recommended as electives to support the specialization for General Education Requirements and Transfer programs.

Number and Title	Credits
AECL 1000—Agroecology	4

AECL 2020—Ecological Web: Agronomic and Horticultural Plant Biology	4
AGEC 1010—Agricultural Economics I	3
BIOL 2400—Ecology	3
CO/M 1010—Public Speaking	3
JOUR 1000—Introduction to Mass Media ...	3
RGMG 1000—Introduction to Range Management	3
RGMG 2000—Principles of Range Management	3
ZOO 2450—Wildlife Management	3

MINIMUM CREDITS FOR DEGREE = 64

Agriculture Education

This specialization will prepare students to transfer to a university program of agriculture education/extension. In order to achieve an AS with a specialization in agriculture education, students must successfully complete core courses with a “C-” or better to meet specialization requirements. Upon transfer, graduates will select a more specific program of study for a Bachelor’s degree which will prepare them for teaching at the secondary level or working in the extension service. Agriculture education majors are also sought after by many industry organizations because of the breadth of the training. Currently there is a national shortage of agriculture education teachers. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in AGRICULTURE EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Three credits of General Education may be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
AECL 1000—Agroecology	4
AGRI 2385—Agriculture Communication/Leadership	2
AGRI 2390—Agriculture Literacy/Leadership .	2
ANSC 1022—Animal Science I	4
EDFD 2020—Foundations of Education	3
EDFD 2100—Educational Psychology	3

EDUC 2100—Public School Practicum (Capstone Course)	2
PSYC 1200—Human Development	3
WELD 1700—General Welding	3
TOTAL	26

Transfer and General Electives

The following courses are recommended as electives to support the specialization for General Education Requirements and Transfer programs.

Number and Title	Credits
AECL 2010—Ecological Web: Soil	4
AGEC 1010—Agricultural Economics I	3
AGEC 2010—Farm and Ranch Business Records	3
AGRI 1010—Computers in Agriculture	3
ANSC 1024—Animal Science II	4
ANSC 1210—Livestock Judging I	2
ANSC 2020—Feeds and Feeding	4
ANSC 2430—Comparative Anatomy and Physiology	4
BIOL 1000—Principles of Biology	4
COM 1010—Public Speaking	3
CROP 2200—Forage Crop Science	3
FDESC 2060—Fresh Meat Processing	3
HLED 1225—Standard First Aid and CPR ...	2
PSYC 1000—General Psychology	4
RGMG 2000—Principles of Range Management	3
STAT 2050—Fundamentals of Statistics	4

MINIMUM CREDITS FOR DEGREE = 64

Agroecology

This specialization is designed for students interested in the application and integration of biological and physical sciences to sustainable crop production. Students transfer into crop science or agronomy programs for careers in seed, fertilizer, and chemical industries or in crop production. Transfer into a soil science or ecology curriculum can lead to land management and natural resource management positions. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in AGROECOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation	

Requirements on pages 26-30 31-37

Eleven credits of General Education may be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
AECL 1000—Agroecology	4
AECL 2010—Ecological Web: Soil	4
AECL 2020—Ecological Web: Agronomic and Horticultural Plant Biology (Capstone Course)	4
AGEC 1010—Agricultural Economics I	3
TOTAL	15

Core Electives

Students must take two courses from the following list of approved courses.

Number and Title	Credits
AGRI 1010—Computers in Agriculture	3
CROP 2200—Forage Crop Science	3
ENTO 1001—Insect Biology	4
TOTAL	6-7

General Electives selected in consultation with advisor 14-19

Transfer and General Electives

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2400—Ecology	3
CHEM 1000—Introduction to Chemistry	5
CHEM 2300—Introduction to Organic Chemistry	4
STAT 2050—Fundamentals of Statistics	3

MINIMUM CREDITS FOR DEGREE = 64

Animal Science

The animal science curriculum provides a foundation in biological and physical sciences, augmented by applications to production in western environments. It prepares students to transfer into an advanced degree program in any of several options within animal science. Graduates find employment in feed and health product companies, livestock management and marketing, breed associations, government agencies, or the meat industry. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in ANIMAL SCIENCE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Six credits of General Education may be fulfilled by taking Core Courses or Core Electives.

Core Courses

Number and Title	Credits
AGEC 1010—Agricultural Economics I	3
AGEC 2020—Farm and Ranch Business Management (Capstone Course)	4
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4
TOTAL	15

Core Electives

Students must take two courses from the following list of approved courses.

Number and Title	Credits
AGEC 1020—Agricultural Economics II	3
AGRI 1010—Computers in Agriculture	3
ANSC 1210—Livestock Judging I	2
ANSC 2020—Feeds and Feeding	4
ANSC 2430—Comparative Anatomy/Physiology of Domestic Animals	4
FDSC 2060—Fresh Meat Processing	3
RGMG 2000—Principles of Range Management	3
TOTAL	5-8

General Electives selected in consultation with advisor 14-17

Transfer and General Electives

Number and Title	Credits
AECL 2010—Ecological Web: Soil	4
CHEM 2300—Introduction to Organic Chemistry	4
CROP 2200—Forage Crop Science	3
STAT 2050—Fundamentals of Statistics	3

MINIMUM CREDITS FOR DEGREE = 64

Range Management

The range management specialization is designed for transfer to range science, rangeland ecology, or renewable resource programs. It includes courses in applied plant, soil, and animal sciences. Graduates find positions in land management, range livestock management, and wildlife management. Students must successfully complete core courses with a “C-” or better to meet specialization requirements.

Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in RANGE MANAGEMENT

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Eleven credits of General Education may be fulfilled by taking Core Courses or Core Electives.

Core Courses

Number and Title	Credits
AECL 1000—Agroecology	4
AECL 2010—Ecological Web: Soil	4
AECL 2020—Ecological Web: Agronomic and Horticultural Plant Biology (Capstone Course)	4
RGMG 1000—Introduction to Range Management	1
RGMG 2000—Principles of Range Management	3
TOTAL	16

Core Electives

Students must take two courses from the following list of approved courses.

Number and Title	Credits
AGEC 1010—Agricultural Economics I	3
AGRI 1010—Computers in Agriculture	3
ANSC 1022—Animal Science I	4
ANSC 1024—Animal Science II	4
ENTO 1001—Insect Biology	4
TOTAL	6-8

General Electives selected in consultation with advisor 13-18

Transfer and General Electives

Number and Title	Credits
BIOL 2400—Ecology	3
BOT 2050—Taxonomy of Flowering Plants ..	4
BOT 2100—Forest Management	3
CHEM 1000—Introduction to Chemistry	5
STAT 2050—Fundamentals of Statistics	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE PRODUCTION AGRICULTURE

Designed for individuals desiring to return to Production Agriculture after the

two-year sequence. Many courses will meet transfer requirements.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Core Courses

Number and Title	Credits
AGEC 1010—Agricultural Economics I	3
AGEC 2010—Farm-Ranch Business Records	3
AGEC 2020—Farm and Ranch Business Management (Capstone Course)	4
AGRI 1010—Computers in Agriculture	3
Agroecology Electives	8
(select from any courses with the following designators: AECL, CROP, RGMG)	
Animal Science Electives	8
(select from any courses with the following designators: ANSC, FDSC)	

TOTAL 29

Recommended Electives

Number and Title	Credits
Agriculture Electives selected in consultation with advisor from any courses with the following designators: AECL, AGECE, ANSC, CROP, FDSC, RGMG,	15

MINIMUM CREDITS FOR DEGREE = 64

**ASSOCIATE OF APPLIED SCIENCE
FARM AND RANCH MANAGEMENT**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Core Courses

Number and Title	Credits
ACCT 1050—Practical Accounting	3
or	
ACCT 2010—Accounting I	3
AGEC 1010—Agricultural Economics I	3
AGEC 2010—Farm-Ranch Business Records ..	3
AGEC 2020—Farm and Ranch Business Management (Capstone Course)	4
AGEC 2300—Agricultural Marketing	3
AGRI 1010—Computers in Agriculture	3
Agroecology/Agronomy Elective	3
Animal Science Elective	3
BADM 2010—Business Law	3
BADM 2100—Small Business Practices	3
MKT 1000—Sales	3

TOTAL 34

General Electives selected in consultation with advisor

7-10

MINIMUM CREDITS FOR DEGREE = 64

**ASSOCIATE OF APPLIED SCIENCE
FARRIER BUSINESS
MANAGEMENT**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Core Courses

Number and Title	Credits
ACCT 1050—Practical Accounting	3
AGEC 2020—Farm and Ranch Business Management (Capstone Course)	4
AGRI 1010—Computers in Agriculture	3
BADM 2100—Small Business Practices	3
EQST 1520—Horse Production I	3
EQST 1550—Equine Evaluation I	2
EQST 1680—Horse Handling and Behavior ..	2
EQST 1805—Farrier Science I	2
EQST 1810—Farrier Science II	3
EQST 1815—Production Shoeing I	3
EQST 1820—Production Shoeing II	3
EQST 1825—Production Shoeing III	3
EQST 1830—Production Shoeing IV	3
WELD 1600—General Arc Welding	2-3

TOTAL 39-40

General Electives selected in consultation with advisor

7-9

MINIMUM CREDITS FOR DEGREE = 64

**NORTHWEST COLLEGE SKILLS
CERTIFICATE
PRODUCTION AGRICULTURE**

Number and Title	Credits
AGEC 1010—Agricultural Economics I	3
or	
AGEC 1020—Agricultural Economics II	3
AGEC 2010—Farm-Ranch Business Records ..	3
AGEC 2020—Farm and Ranch Business Management (Capstone Course)	4
AGEC 2300—Agricultural Marketing	3
AGRI 1010—Computers in Agriculture	3
Animal Science elective	4
Agroecology	4
(select from any courses with the following designators: AECL, CROP, RGMG)	
BADM 1005—Business Mathematics or equivalent	3
COM 1010—Public Speaking	3
or	
ENGL Freshman English	3
Electives	3

TOTAL 32

TOTAL CREDITS FOR CERTIFICATE = 32

Business – Transfer

The Business Department offers two-year transfer programs for students seeking a baccalaureate degree in the areas

of Accounting and Business Administration. In conjunction with the specialization described for graduation from Northwest College, students should work closely with an advisor from the Business Department in designing their transfer program. Many courses in a two-year program require prerequisites; please refer to the course descriptions section at the back of this catalog for more information.

Accounting or Business Administration

This specialization provides students who wish to concentrate in the study of Accounting or Business Administration with course work that is a common base for advanced study and/or careers in the world of business. Students who study in this area typically seek degrees at senior institutions in the fields of Accounting, Finance, Management, Marketing and Personnel Administration among others. A degree in business is a popular choice for students planning to attend Law School upon graduation. Northwest College's Business Department offers students an opportunity to build a solid foundation in each of these areas.

Students who are planning to enter careers in business through advanced study at a four-year institution will need to have course work beyond the specialization requirements at Northwest College.

Students must consult closely with their academic advisor in the Business Department to determine which general education elective courses (social science, humanities, visual and performing arts, and lab science) will satisfy specific requirements of their intended transfer college or university. Most four-year institutions have prescribed requirements for admission to junior-level upper division status in their respective business programs. Students will be required to complete each core course with a "C-" or better to meet specialization requirements.

**ASSOCIATE OF SCIENCE
with specialization in
ACCOUNTING or BUSINESS
ADMINISTRATION**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Six credits of Social Science and seven to nine credits of Mathematics may be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
ACCT 2010—Principles of Accounting I.....	4
ACCT 2020—Principles of Accounting II.....	4
BADM 2395—Capstone in Business (Capstone Course).....	1
ECON 1010—Macroeconomics	3
ECON 1020—Microeconomics	3
MATH 1050—Finite Mathematics	3
or	
MATH 2350—Business Calculus	5
STAT 2010—Statistical Concepts for Business	4
TOTAL	22-24

Transfer and General Electives selected in consultation with advisor 14-20

Recommended Transfer and General Electives

Number and Title	Credits
ACCT 2410—Intermediate Accounting I.....	3
ACCT 2110—Microcomputer Accounting.....	2
BADM 1000—Introduction to Business.....	3
BADM 1020—Business Communication.....	3
BADM 2010—Business Law.....	3
BMIS 2000—Computer Information Systems	3
BUSN 2000—Introduction to International Business	3
CO/M 1010—Public Speaking	3
MGT 2100—Principles of Management.....	3
MKT 2100—Principles of Marketing.....	3

MINIMUM CREDITS FOR DEGREE = 64

Business – Two Year

This business program prepares students for entry-level positions in business. It emphasizes writing, speaking, and problem-solving skills and provides students with the general education and business course work favored by many employers. Most required course work is transferable should the student decide to pursue a bachelor's degree. The program is capped with an internship, wherein students work part-time in professional positions to gain experience and ease the transition from school to career.

ASSOCIATE OF APPLIED SCIENCE BUSINESS

General Education Requirements

Number and Title	Credits
BADM 1005—Business Mathematics.....	3
or	

MATH Any College-Level Mathematics	4
BADM 1020—Business Communication.....	3
CO/M 1010—Public Speaking	3
ECON 1010—Macroeconomics	3
or	
ECON 1020—Microeconomics	3
ENGL 1010—English I: Introduction to Composition	3
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States From 1865 ..	3
or	
HIST 1210—United States History I.....	3
and	
HIST 1250—History of Wyoming.....	3
Wellness Education	2
TOTAL	20-21

Core Courses

Number and Title	Credits
ACCT 2010—Principles of Accounting I.....	4
ACCT 2020—Principles of Accounting II.....	4
BADM 1000—Introduction to Business.....	3
BADM 2010—Business Law.....	3
BADM 2030—Business Ethics.....	3
BMIS 2000—Computer Information Systems	3
MGT 2100—Principles of Management.....	3
MKT 2100—Principles of Marketing.....	3
BADM 2395—Capstone in Business (Capstone Course).....	1
TOTAL	27

Recommended Electives

Number and Title	Credits
General Electives selected in consultation with advisor, 12 of which must be business courses.....	18-21
or	
STUDENTS may CHOOSE to complete one of the following tracks as their selected electives. This will provide the students with a competency level in a specific area of business as opposed to a general business program or degree.	

Track I — Accounting

Number and Title	Credits
ACCT 2110—Microcomputer Accounting....	2
ACCT 2410—Intermediate Accounting I.....	3
CMA 1765—Spreadsheet Application: Excel..	2
MGT 1470—Internship: Management.....	3

Track II — Management

Number and Title	Credits
BADM 2100—Small Business Practices.....	3
MGT 1000—Introduction to Supervision.....	3
MGT 2470—Internship: Management	3

Track III — Marketing

Number and Title	Credits
BADM 1045—e-Commerce for Managers....	3

MGT 2470—Internship: Management.....	3
MKT 1000—Sales	3

MINIMUM CREDITS FOR DEGREE = 64

Travel and Tourism

This degree will train students to work in entry-level management jobs in a variety of travel and tourism industries. The program will concentrate on polishing various generalized entrepreneurial skills, including writing, organizing, and quantitative analysis. Specific skills relevant to the travel and tourism industry will be cultivated through classroom and actual practical experiences.

ASSOCIATE OF APPLIED SCIENCE TRAVEL AND TOURISM

General Education Requirements

Number and Title	Credits
BADM 1005—Business Mathematics.....	3
or	
MATH—Any College-Level Mathematics .	3-4
BADM 1020—Business Communication.....	3
CO/M 1030—Interpersonal Communication .	3
ENGL 1010—English I: Introduction to Composition	3
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States from 1865 ...	3
or	
HIST 1210—United States History I.....	3
and	
HIST 1250—History of Wyoming.....	3
GEOL 1035—Geology of Yellowstone National Park.....	1
or	
GEOL 1030—Geology of Northern Wyoming	3
TOTAL	16-22

Core Courses

Number and Title	Credits
ACCT 2010—Principles of Accounting I.....	4
BADM 1050—Introduction to Travel and Tourism	3
BADM 1400—Introduction to Hospitality ...	3
BADM 2010—Business Law.....	3
BADM 2395—Capstone in Business (Capstone Course).....	1
BADM 2970—Internship/Practicum Travel and Tourism:.....	1-6
BMIS 2000—Computer Information Systems 3	
MGT 2100—Principles of Management.....	3
MKT 2100—Principles of Marketing	3
TOTAL	24-29

General Electives selected in consultation with advisor Up to 8

Recommended Electives

Number and Title	Credits
ACCT 2020—Principles of Accounting II.....	4
BADM 1060—Centralized Reservation System.....	2
BADM 2030—Business Ethics.....	3
BUSN 2000—Introduction to International Business.....	3
CMAP 1890—World Wide Web Authoring... 1	
ECON 1020—Microeconomics.....	3
G&R 1250—Geography of Travel and Tourism.....	3

MINIMUM CREDITS FOR DEGREE = 64

Business Technology

This degree prepares students for careers in the computer information systems field with three options. Each of these three options allows students to develop entry level skills needed for employment. The Network Technician option will emphasize the hardware, network, and programming component while the Help Desk Specialist option will focus on user support and training for the computerized office. The Administrative Assistant option is designed to reflect current needs in business offices and will include software applications and Microsoft Office Specialist certification preparation.

ASSOCIATE OF APPLIED SCIENCE ADMINISTRATIVE ASSISTANT OPTION

General Education Requirements

Number and Title	Credits
BADM 1005—Business Mathematics.....	3
BADM 1020—Business Communications	3
CO/M 1010—Public Speaking	3
or	
CO/M 1030—Interpersonal Communication.	3
ENGL 1010—English I: Introduction to Composition.....	3
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States from 1865 ...	3
Science/Social Science/Visual & Performing Arts	3
Wellness Education	2
TOTAL 20	

Core Courses

Number and Title	Credits
ACCT 1050—Practical Accounting.....	3
or	
ACCT 2010—Principles of Accounting I.....	4

ACCT 2110—Microcomputer Accounting....	2
BADM 1000—Introduction to Business.....	3
BMIS 2000—Computer Information Systems	3
BOTK 2750—Records and Information Management.....	1
BOTK 2950—Employment Orientation	1
CMAP 1715—Word Processing:	2
CMAP 1765—Spreadsheet Applications:.....	2
CMAP 1815—Database Applications:	2
CMAP 1850—Desktop Publishing	3
CMAP 2630—Presentation Graphics:	2
MGT 1000—Introduction to Supervision.....	3
BADM 2395—Capstone in Business.....	1
TOTAL 28-29	

General Electives selected in consultation with advisor..... Up to 16

Recommended Electives

Number and Title	Credits
BADM 2010—Business Law.....	3
BADM 2100—Small Business Practices.....	3
BOTK 1500—Ten-Key Mastery	1
BOTK 2510—Legal Terminology	1
BOTK 2600—Medical Transcription.....	3
BOTK 2620—Medical Coding	2
BOTK 2970—Internship:.....	2
BUSN 2000—Introduction to International Business	3
CMAP 1680—Microcomputer Applications:	1-3
CMAP 1890—World Wide Web Authoring... 1	
CMAP 1920—Computer Hardware Maintenance	3
CMAP 2900—Advanced Integrated Computer Applications	3
GRAR 1800—Introduction to Macintosh.....	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE NETWORK TECHNICIAN OPTION

General Education Requirements

Number and Title	Credits
BADM 1005—Business Mathematics.....	3
or	
MATH—Any College-Level Mathematics .	3-4
CO/M 1010—Public Speaking	3
ENGL 1010—English I: Introduction to Composition	3
BADM 1020—Business Communication.....	3
or	
ENGL 2010—Technical Report Writing	3
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States from 1865 ...	3
Science/Social Science/Visual & Performing Arts	3
Wellness Education	2
TOTAL 20-21	

Core Courses

Number and Title	Credits
BMIS 2000—Computer Information Systems	3

CMAP 1615—Operating Systems	3
CMAP 1635—Visual Basic for Microsoft Office.....	3
CMAP 1920—Computer Hardware Maintenance	3
CMAP 1930—Wiring and Network Technology	3
CMAP 1940—LAN Server Installation and Configuration	3
CMAP 1950—LAN Services and Support	3
CMAP 2520—Telecomputing/Internet.....	3
CMAP 2840—Network Documentation.....	2
CMAP 2850—Wireless Networking	3
CMAP 2585—Web Applications.....	3
CMAP 2970—Internship:	1-6
CMAP 2720—Systems Management (Capstone Course).....	3
TOTAL 35-40	

General Electives selected in consultation with advisor Up to 7

Recommended Electives

Number and Title	Credit
ACCT 1050—Practical Accounting.....	3
ACCT 2010—Principles of Accounting I.....	4
ACCT 2110—Microcomputer Accounting....	2
BADM 2030—Business Ethics.....	3
BADM 2100—Small Business Practices.....	3
BOTK 2950—Employment Orientation	1
CMAP 1715—Word Processing:	2
CMAP 1765—Spreadsheet Applications:.....	2
CMAP 1815—Database Applications:	2
CMAP 1850—Desktop Publishing I:	3
CMAP 2840—Network Documentation.....	2
CMAP 2900—Advanced Integrated Computer Applications	3
GRAR 1800—Introduction to Macintosh.....	3
JOUR 1020—Webcasting Practicum I.....	1-2
MGT 1000—Introduction to Supervision.....	3
PHTO 2650—Digital Imaging I.....	3
PHTO 2660—Web Page Design	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE HELP DESK SPECIALIST OPTION

General Education Requirements

Number and Title	Credits
BADM 1005—Business Mathematics.....	3
or	
MATH—Any College-Level Mathematics .	3-4
CO/M 1010—Public Speaking	3
ENGL 1010—English I: Introduction to Composition	3
BADM 1020—Business Communication.....	3
or	
ENGL 2010—Technical Report Writing	3
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States from 1865 ...	3
Science/Social Science/Visual & Performing Arts	3
Wellness Education	2
TOTAL 20-21	

Core Courses

Number and Title	Credits
BMIS 2000—Computer Information Systems	3
CMAP 1615—Operating Systems	3
CMAP 1635—Visual Basic for Microsoft Office	3
CMAP 1715—Word Processing:	2
CMAP 1765—Spreadsheet Applications:	2
CMAP 1815—Database Applications:	2
CMAP 1920—Computer Hardware Maintenance	3
CMAP 1950—LAN Services and Support	3
CMAP 2540—Introduction to Help Desk Management (Capstone Course)	2
CMAP 2825—Help Desk Fundamentals	4
CMAP 2970—Internship:	1-6
GRAR 1800—Introduction to Macintosh	3
BADM 2395—Capstone in Business (Capstone Course)	1
TOTAL 38	
General Electives selected in consultation with advisor	
Up to 9	

Recommended Electives

Number and Title	Credits
ACCT 1050—Practical Accounting	3
ACCT 2010—Principles of Accounting I	4
ACCT 2110—Microcomputer Accounting	2
BADM 2030—Business Ethics	2
BADM 2100—Small Business Practices	3
BIOL 2310—Introduction to Geographic Information Systems	3
BOTK 2950—Employment Orientation	1
CMAP 1850—Desktop Publishing I:	3
JOUR 1020—Webcasting Practicum I	1-2
MGT 1000—Introduction to Supervision	3
PHTO 2650—Digital Imaging I	3
PHTO 2660—Web Page Design	3

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE SKILLS CERTIFICATE BUSINESS TECHNOLOGY – GENERAL OFFICE/CLERICAL SKILLS

This certificate program is designed to provide students with the basic secretarial skills needed in a general office setting. It also provides a foundation of courses for those students who might wish to continue their office career preparation in a two-year Business Technology Administrative Assistant degree option at Northwest.

Number and Title	Credits
ACCT 1050—Practical Accounting	3
or	
ACCT 2010—Principles of Accounting I	4
ACCT 2110—Microcomputer Accounting	2
BADM 1000—Introduction to Business	3
BADM 1005—Business Mathematics	3
BADM 1020—Business Communication	3
BMIS 2000—Computer Information Systems	3

BOTK 2750—Records and Information Management	1
BOTK 2950—Employment Orientation	1
CMAP 1715—Word Processing:	2
ENGL 1010—English I: Introduction to Composition	3
Electives selected in consultation with advisor, 2 of which must be selected from the following designators: ACCT, BADM, BOTK, CMAP	Up to 9
TOTAL 32-34	

TOTAL CREDITS FOR CERTIFICATE = 32-34

NORTHWEST COLLEGE SKILLS CERTIFICATE WORD PROCESSING

This certificate program is designed to develop and recognize advanced skill in word processing using a microcomputer and a currently popular word processing software package.

Number and Title	Credits
BMIS 2000—Computer Information Systems	3
CMAP 1715—Word Processing:	2
CMAP 1850—Desktop Publishing I:	3
CMAP 2630—Presentation Graphics:	2
TOTAL 10	

TOTAL CREDITS FOR CERTIFICATE = 10

Equine Studies

Growth of the equine industry in the United States has created a demand for qualified personnel in all of its related fields. The associate degree program in equine studies is intended to provide basic, practical, and theoretical grounds from which students may directly enter their fields of interest.

This two-year program has two options that emphasize a practical approach. The riding and training option assists students in learning riding, training, and horse handling skills in addition to related management concepts. It is not mandatory for the student to supply a horse for training, but all students are strongly urged to do so. Students completing the program may find employment in riding academies, training stables, summer camps, and feed or saddlery companies.

The equine business management option is designed for those who would like to be involved in the sales and merchandising aspects of the equine industry. Students need not have a horse to pursue this exciting career field.

The associate of applied science

degree has been designed to meet the sophisticated demands of today's market.

ASSOCIATE OF APPLIED SCIENCE EQUINE RIDING AND TRAINING

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Core Courses

Number and Title	Credits
ANSC 2430—Comparative Anatomy/Physiology of Domestic Animals	4
BADM 2100—Small Business Practices (or equivalent)	3
EQST 1510—Equine Nutrition	2
or	
ANSC 2020—Feeds and Feeding	4
EQST 1520—Horse Production I	3
EQST 1525—Horse Production II	3
EQST 1540—Applied Horse & Stall Care I	1
EQST 1545—Applied Horse & Stall Care II	1
EQST 1550—Equine Evaluation I	2
EQST 1680—Horse Handling and Behavior ..	2
EQST 1805—Farrier Science I	2
EQST 2520—Equine Breeding	3
EQST 2540—Applied Horse & Stall Care III	1
EQST 2545—Applied Horse & Stall Care IV	1
EQST 2680—Western/English Horsemanship I	3
EQST 2690—Western/English Horsemanship II	3
EQST 2810—Training & Development of the Western Horse I	3
or	
EQST 2830—Training & Development of the English Horse I	3
EQST 2820—Training & Development of the Western Horse II (Capstone Course) ..	3
or	
EQST 2840—Training & Development of the English Horse II (Capstone Course) ..	3
TOTAL 40-41	

General Electives selected in consultation with advisor

6

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE EQUINE BUSINESS MANAGEMENT

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Core Courses

Number and Title	Credits
ACCT 2010—Principles of Accounting	4
AGEC 2010—Farm-Ranch Records	3
AGRI 1010—Computers in Agriculture	3
or	
BMIS 2000—Computer Information Systems	3
BADM 2010—Business Law	3
BADM 2100—Small Business Practices	3
ECON 1010—Macroeconomics	3
or	
ECON 1020—Microeconomics	3
or	
AGEC 1010—Agriculture Economics I	3
or	
AGEC 1020—Agriculture Economics II	3
EQST 1510—Equine Nutrition	3
or	
ANSC 2020—Feeds & Feeding	3
EQST 1520—Horse Production I	3
EQST 1525—Horse Production II	3
EQST 1550—Equine Evaluation I	2
or	
EQST 2520—Equine Breeding	3
or	
EQST 2680—Western and English Horsemanship I	3
MKT 1000—Sales	3
or	
MKT 2100—Principles of Marketing	3
MGT 2100—Principles of Management	3
EQST 2515—Horse Show/Clinic/Equine Management	2
TOTAL 42	

General Electives selected in consultation with advisor

MINIMUM CREDITS FOR DEGREE = 64

Technical Education

Students interested in entering the field of technical education will develop an individual course of study in cooperation with a technical education advisor and an education advisor. (See the suggested education programs of study in the Social Science and Education Division section of this catalog.)

Welding Technology

The welding technology program is designed to give the student a solid background in the latest techniques, procedures, and processes in welding. Students are encouraged to complete the two-year program, although a Northwest College certificate (60 credits, see page 26) is an available option, in addition to Northwest College skills certificate options.

**ASSOCIATE OF APPLIED SCIENCE
WELDING TECHNOLOGY**

Core Courses

Number and Title	Credits
ENGL—Freshman Level English	3
BADM 1020—Business Communication	3
MATH 1510—Technical Mathematics I (or equivalent)	3
POLS 1000—American and Wyoming Government	3
or	
HIST 1210—United States History I	3
and	
HIST 1250—History of Wyoming	3
WELD 1555—Welding Technology Safety and Problem Solving	2
WELD 1650—Print Reading	3
WELD 1705—Welding Processes	4
WELD 1765—Advanced Welding Processes	4
WELD 1800—Materials Evaluation	1-6
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabrication Techniques	4
WELD 2670—Welding Inspection Technology	3
WELD 2680—Welding Metallurgy	3
WELD 2700—Welding Certification (Plate)	4
WELD 2710—Welding Certification (Pipe)	4
WELD 2750—Metals Production	4
WELD 2985—Welding Seminar (Capstone Course)	1-3
Wellness Education	2
* General Education Requirements	6
Electives	3
TOTAL 64-70	

TOTAL CREDITS FOR DEGREE = 64-70

* Students should refer to the Graduation Requirements on pages 26-30.

**NORTHWEST COLLEGE SKILLS
CERTIFICATE
WELDING TECHNOLOGY**

Number and Title	Credits
MATH 1510—Technical Mathematics I (or equivalent)	3
WELD 1555—Welding Technology Safety and Problem Solving	2
WELD 1650—Print Reading	3
WELD 1705—Welding Processes	4
WELD 1765—Advanced Welding Processes	4
WELD 1800—Materials Evaluation	1-6
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabrication Techniques	4
WELD 2750—Metals Production	4
Elective	3
TOTAL 32-37	

TOTAL CREDITS FOR CERTIFICATE = 32-37

**NORTHWEST COLLEGE SKILLS
CERTIFICATE
MIG WELDING**

This certificate is designed for students to develop the knowledge and skills necessary for MIG Welding.

Core Courses

Number and Title	Credits
MATH 1510—Technical Mathematics I	3
WELD 1555—Welding Technology Safety and Problem Solving	2
WELD 1650—Print Reading	3
WELD 1700—General Welding	3
WELD 1770—GMAW - FCAW	4
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabrication Techniques	4
WELD 2750—Metals Production	4
TOTAL 27	

Elective

Any other Welding class. Must be 3 credits or more

TOTAL CREDITS FOR CERTIFICATE = 30

**NORTHWEST COLLEGE SKILLS
CERTIFICATE
TIG WELDING**

This certificate is designed for students to develop the knowledge and skills necessary for TIG Welding.

Core Courses

Number and Title	Credits
MATH 1510—Technical Mathematics I	3
WELD 1555—Welding Technology Safety Problem Solving	2
WELD 1650—Print Reading	3
WELD 1700—General Welding	3
WELD 1785—GTAW Welding	4
WELD 1860—Welding Fabrication	4
WELD 1870—Advanced Metal Fabrication Techniques	4
WELD 2750—Metals Production	4
TOTAL 27	

Elective

Any other Welding class. Must be 3 credits or more

TOTAL CREDITS FOR CERTIFICATE = 30

Faculty

D. Fish, Chairperson
 G. Bakken, R. Becker, D. Davis,
 P. Gjovik, C. Patrick, A. Polvere, J. Riley,
 C. Satterlee, M. Tyree, J. Wooden

The knowledge and skills involving communication are among the most important and useful in modern society. The very nature of communication concerns social symbolic activity. Because of its use of symbols, communication is a uniquely human attribute.

The Communication Division examines the use of symbols in a variety of contexts. These contexts include mass mediated forms and social scientific notions of communication, as well as the more traditional speech/rhetoric area of communication. The mass mediated forms include: journalism, graphic arts (printing), and photographic communications. Social scientific approaches encompass interpersonal, small group and organizational communication. The more traditional speech areas concentrate on public speaking and persuasion.

The goal of course work within the division is to teach the skills necessary to be effective communicators and to be critical consumers of communication within these realms. This is done regardless of whether the student desires immediate employment or transfer to a four-year institution seeking a baccalaureate degree.

Associate of Arts Degree with specialization in

Graphics – Design
 Communication
 Journalism – Print
 Journalism – Web/Broadcasting

Associate of Science Degree with specialization in

Agriculture Communications

Associate of Applied Science Degree

Graphics – Prepress Production
 Graphics – Printing Production
 Graphics – Design
 Photographic Communications

Northwest College Skills Certificate Option

Web Design and Application

Agriculture Communications

Career opportunities include work in agriculture-related publications, radio, and television. Transfer options are available regionally and nationally. In order to achieve an AS with a specialization in agriculture communications, students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in AGRICULTURE COMMUNICATIONS

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	31-37

Core Courses

Number and Title	Credits
AGRI 2385—Agriculture Communication/ Leadership.....	2
ANSC 1022—Animal Science I.....	4
CO/M 2485—Sophomore Seminar: Communication (Capstone Course).....	3
JOUR 1100—Newswriting and Reporting I..	3
JOUR 1240—Agriculture Communications Practicum.....	2
JOUR 2000—Broadcast Production.....	3
or	
JOUR 2140—News Editing.....	3
	TOTAL 17

Core Electives

Students must take seven credits from the following list of approved courses.

Number and Title	Credits
AECL 2010—Ecological Web: Soil.....	4
AGEC 2300—Agricultural Marketing.....	3
AGRI 2390—Agriculture Literacy/Leadership	2
JOUR 1010—Publications Production.....	1-2
JOUR 2000—Newswriting and Reporting II.	3
PHTO 1610—Introduction to Photography ...	3

Transfer and General Electives

The following courses are recommended as electives to support the specialization for General Education Requirements and Transfer programs.

Number and Title	Credits
AECL 1000—Agroecology.....	4
AECL 2020—Ecological Web: Agronomic and Horticultural Plant Biology.....	4
AGEC 1010—Agricultural Economics I.....	3
BIOL 2400—Ecology.....	3
CO/M 1010—Public Speaking.....	3
JOUR 1000—Introduction to Mass Media ...	3
RGMG 1000—Introduction to Range Management.....	3
RGMG 2000—Principles of Range Management.....	3
ZOO 2450—Wildlife Management.....	3

MINIMUM CREDITS FOR DEGREE = 64

Communication

The communication area offers a variety of course work for students who plan to transfer to a four-year institution and for students who want to better understand their communication patterns. Students planning to receive a bachelor of arts degree in this area need to review carefully the degree requirements of the college or university to which they plan to transfer. Speech communication courses are available to students under any degree or certificate plan as either fulfilling Humanities Requirements or as electives.

Northwest has a nationally recognized forensics squad which represents the college at tournaments throughout the western United States. Forensics is a form of rhetorical scholarship which involves various dimensions: debate, public address, and the interpretation of literature. Forensics serves as a curricular and co-curricular laboratory for improving students’ abilities in research, analysis, and oral communication. Typically, forensics activities are conducted in a competitive environment to motivate students and accelerate the learning process. In addition to the competitive speaking program, the Northwest forensics squad performs on campus as well as in the community and works with high school programs throughout the state.

ASSOCIATE OF ARTS with specialization in COMMUNICATION

This specialization allows students to explore the field of communication as the basis for their associate of arts degree.

The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-42

Six hours of Humanities and three hours of Visual and Performing Arts requirements may be fulfilled by taking Core Courses and Electives.

Core Courses

Number and Title	Credits
CO/M 1010—Public Speaking	3
CO/M 1030—Interpersonal Communication. 3	
CO/M 2485—Sophomore Seminar: Communication (Capstone Course).....	3
TOTAL	9

Core Electives

Students must take three courses (9 hours) from the following list of approved courses. Two of the three courses must have a CO/M designator.

Number and Title	Credits
CO/M 1040—Introduction to Human Communication	3
CO/M 2090—Introduction to Persuasion	3
CO/M 2110—Nonverbal Communication	3
CO/M 2120—Small Group Communication . 3	
CO/M 2125—Family Communication	3
CO/M 2150—Argumentation	3
JOUR 1000—Introduction to Mass Media	3
PHIL 2420—Logic I: Critical Thinking	3
THEA 2120—Oral Interpretation	3

General Electives in consultation with advisor..... 12-18

MINIMUM CREDITS FOR DEGREE = 64

Graphics

The graphics options have been developed at Northwest College to provide students with broad career preparation in the related fields of prepress production, printing production and

graphic design. Varied combinations of course work in these fields can lead to employment opportunities in the Rocky Mountain region and across the nation. The associate of applied science degree prepares students for entry-level positions in the graphic arts industry. The associate of arts option is a transfer-oriented degree designed for students intending to continue at a four-year institution.

ASSOCIATE OF ARTS with specialization in GRAPHICS - DESIGN

Graphic design involves the study of communications through image and/or type. Its purpose is to persuade, promote, or inform a selected audience as the result of a carefully orchestrated visual message.

Core courses and recommended electives provide the student with an introduction to basic design principles, visual communication theory, an overview of the graphic design industry, and a survey of graphic design history. They also provide a basic knowledge in the related field of print production, computer graphics, photography, and advertising. Students will gain an understanding of the use of design principles and become familiar with their use and effectiveness throughout the various graphic design applications.

In order to achieve an AA with a specialization in graphic design, students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

The program at Northwest has been developed to provide the student with either a transfer degree (associate of arts) or a technical two-year degree (associate of applied science). Required courses beyond the core curriculum are designed to help students focus their education in either of these two directions and further develop individual strengths and interests in the graphic design area.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-42

Six hours of Visual and Performing Arts are fulfilled by Core Courses.

Core Courses

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 1130—Design: Color	3
ART 2100—Computer Graphics I	3
ART 2120—Graphic Design I (fall only)	3
ART 2465—Art Portfolio (Capstone Course).....	2
or	
ART 2479—Special Projects: Graphic Design (Capstone Course).....	3
or	
GRAR 2750—Magazine Editing and Management (Capstone Course).....	3
GRAR 1510—Introduction to Graphic Arts ..	3
GRAR 1800—Introduction to Macintosh	3
GRAR 1810—Electronic Publishing: PageMaker (fall only).....	3
or	
GRAR 1820—Electronic Publishing: QuarkXPress (spring only).....	3
TOTAL	23-24

Transfer and General Electives

Number and Title	Credits
ART 1050—Drawing I.....	3
ART 2010—Art History I	3
ART 2020—Art History II.....	3
ART 2110—Typography.....	3
ART 2130—Graphic Design II (spring only) 3	
ENGL 2030—Critical Reading and Writing..	3
GRAR 1720—Imaging for Printing Reproduction	3
JOUR 1000—Introduction to Mass Media	3
PHIL 2200—Social and Political Philosophy 3	
PHTO 1610—Introduction to Photography ...	3
PHTO 2650—Digital Imaging I.....	3
PHTO 2660—Web Page Design	3
PHTO 2760—Introduction to Digital Multimedia	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE GRAPHICS DESIGN OPTION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	20-23

Three hours of General Education may be fulfilled by taking Core Courses.

Common Core

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 2100—Computer Graphics I	3
GRAR 1510—Introduction to Graphic Arts ..	3
GRAR 1800—Introduction to Macintosh	3
GRAR 1810—Electronic Publishing: PageMaker (fall only)	3
or	
GRAR 1820—Electronic Publishing: QuarkXPress (spring only)	3
TOTAL 15	

Core Courses

Number and Title	Credits
ART 1050—Drawing I	3
ART 1130—Design: Color	3
ART 2010—Art History I	3
or	
ART 2020—Art History II	3
ART 2105—Computer Graphics II (spring only)	3
ART 2110—Typography (fall only)	3
ART 2120—Graphic Design I (fall only)	3
ART 2130—Graphic Design II (spring only) ..	3
GRAR 1610—Offset Production I	3
GRAR 1720—Imaging for Printing Reproduction	3
PHTO 2650—Digital Imaging	3

One course from the following list of approved capstone courses:

ART 2465—Art Portfolio (Capstone Course)	2
or	
ART 2479—Special Projects: Graphic Design (Capstone Course)	3
or	
GRAR 2750—Magazine Editing and Management (Capstone Course)	3
TOTAL 32-33	

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE GRAPHICS

PREPRESS PRODUCTION OPTION

Prepress Production involves the overlooked but ever-so-important area of prepress. This is a profession that most often works between the graphic design and the printing departments. Prepress professionals must have a good sense of graphic design but also know how to prepare a printed piece to ensure the highest quality of reproduction while keeping production costs to a minimum. Members of the prepress community are often requested to repair and “tweak” files from designers that might otherwise result in an inferior product once on the printing press. This task is often referred to as “preflight.” As a result, the prepress professional is

expected to have a full understanding of the printing process while knowing all the major graphics software packages used in the graphic design and publishing professions.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Three hours of General Education may be fulfilled by taking Core Courses.

Common Core

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 2100—Computer Graphics I	3
GRAR 1510—Introduction to Graphic Arts ..	3
GRAR 1800—Introduction to Macintosh	3
GRAR 1810—Electronic Publishing: PageMaker (fall only)	3
or	
GRAR 1820—Electronic Publishing: QuarkXPress (spring only)	3
TOTAL 15	

Core Courses

Number and Title	Credits
ART 1130—Design: Color	3
ART 2120—Graphic Design I (fall only)	3
ART 2465—Art Portfolio	2
GRAR 1610—Offset Production I	3
GRAR 1620—Offset Production II	3
GRAR 1720—Imaging for Printing Reproduction	3
GRAR 1950—Preflighting/Image Assembly ..	3
PHTO 1600—Survey of Photography	3
or	
PHTO 1610—Introduction to Photography ...	4
or	
PHTO 2650—Digital Imaging	3

One course from the following list of approved capstone courses:

ART 2479—Special Projects: Graphic Design (Capstone Course)	3
or	
GRAR 2750—Magazine Editing and Management (Capstone Course)	3
TOTAL 26-27	

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE GRAPHICS

PRINTING PRODUCTION OPTION

Printing Production is designed to prepare students to enter the graphic arts/printing profession as offset printing press operators. Some might think of it as boot camp for printers. Included with the

thorough study and hands-on experience of the printing press., printing production students will also be exposed to the fundamentals of graphic design allowing them a better understanding of the discipline that generates the work that is targeted for the printing press. These students will also get a basic background in prepress which will assist them in their communications with the area that works in concert with printing. This degree also provides the groundwork for print management training. A second two-year business degree or transfer to a 4-year school to study business is recommended for those seeking a career in the administrative area of the printing industry.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Three hours of Humanities/Social Science/Visual & Performing Arts/Science may be fulfilled by taking Core Courses.

Common Core

Number and Title	Credits
ART 1110—Design: 2-D	3
ART 2100—Computer Graphics I	3
GRAR 1510—Introduction to Graphic Arts ..	3
GRAR 1800—Introduction to Macintosh	3
GRAR 1810—Electronic Publishing: PageMaker (fall only)	3
or	
GRAR 1820—Electronic Publishing: QuarkXPress (spring only)	3
TOTAL 15	

Core Courses

Number and Title	Credits
ART 1130—Design: Color	3
ART 2120—Graphic Design I (fall only)	3
ART 2465—Art Portfolio (fall only)	2
GRAR 1610—Offset Production I	3
GRAR 1620—Offset Production II	3
GRAR 1720—Imaging for Printing Reproduction	3
GRAR 1950—Preflighting/Image Assembly ..	3
GRAR 2710—Estimating (spring only)	3
GRAR 2810—Advanced Press	3
PHTO 1600—Survey of Photography	3
or	
PHTO 1610—Introduction to Photography ...	4
or	
PHTO 2650—Digital Imaging	3

One course from the following list of approved capstone courses:

ART 2479—Special Projects: Graphic Design (Capstone Course)	3
or	

GRAR 2750—Magazine Editing and Management (Capstone Course).....	3
TOTAL	32-33

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE SKILLS CERTIFICATE

WEB DESIGN AND APPLICATION

This certificate is designed for those students wishing to develop the skills necessary to design and manage a basic Web site.

Number and Title	Credits
ART/PHTO 2490—Web Page Design II.....	3
CMAP 2585—Web Applications.....	3
JOUR 1020—Webcasting Practicum I.....	1-2
JOUR 2020—Webcasting Practicum II.....	1-2
PHTO 2650—Digital Imaging.....	3
PHTO 2660—Web Page Design I.....	3
TOTAL	14-16

TOTAL CREDITS FOR CERTIFICATE = 14-16

Journalism

The Journalism Program at Northwest College offers introductory courses for students who plan to transfer to a four-year institution in pursuit of a bachelor’s degree. Students may choose from print or web/broadcast specializations. Print-related courses prepare students for careers in newspapers and magazines, including reporting and writing, photojournalism, editing, page layout and design. Web/broadcast courses provide training for careers in television, radio and the Internet, such as reporting, video camera operation, editing, announcing and web-delivered content including audio, video and streaming media.

ASSOCIATE OF ARTS with specialization in JOURNALISM PRINT

This specialization allows students to explore journalistic print media for their associate of arts degree. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest

College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-42

Six hours of Humanities will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
JOUR 1000—Introduction to Mass Media....	3
JOUR 1010—Publications Production I....	1-2
JOUR 1100—Reporting and Newswriting I..	3
JOUR 2100—Reporting and Newswriting II.	3
JOUR 2010—Publications Production II....	1-2
JOUR 2140—News Editing.....	3
CO/M 2485—Sophomore Seminar:.....	
Communication (Capstone Course).....	2
TOTAL	16-18

General Electives selected in consultation with advisor..... 4-12

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF ARTS with specialization in JOURNALISM WEB/ BROADCASTING

This specialization allows students to explore journalistic Web/broadcasting for their associate of arts degree. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-42

Six hours of Humanities will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
JOUR 1000—Introduction to Mass Media....	3
JOUR 1020—Webcasting Practicum I.....	1-2
JOUR 1100—Reporting and Newswriting I..	3
JOUR 2100—Reporting and Newswriting II.	3
JOUR 2020—Webcasting Practicum II.....	1-2
JOUR 2000—Broadcast Production.....	3
CO/M 2485—Sophomore Seminar:	
Communication (Capstone Course).....	2
TOTAL	16-18

General Electives selected in consultation with advisor..... 4-12

MINIMUM CREDITS FOR DEGREE = 64

Photographic Communications

The Photographic Communications program prepares students for a career in professional photography. Areas of commercial photography emphasis include studio illustration, portraiture, new digital media, and photojournalism.

With the latest in multimedia and digital technologies combined with traditional and historical processes, this all-encompassing program provides students with a wide array of skills as they develop a personal photographic vision.

From academic to professional endeavors, our full-time faculty bring into the classroom their expertise in this fast-paced, ever-changing industry. Then through project-based assignments and a hands-on approach, students learn real world visual problem solving.

The framework of the program also incorporates courses in business and general education to better prepare the student for a successful career in photography. For the applied science degree in photographic communications, students must complete both the General Education Requirements and the Core Courses.

ASSOCIATE OF APPLIED SCIENCE PHOTOGRAPHIC COMMUNICATIONS

General Education Requirements

Number and Title	Credits
ART—Any ART course meeting the Visual & Performing Arts requirement.....	3
BADM 1005—Business Mathematics.....	3
or	
MATH—Any College-Level Mathematics .	3-4
BADM 1020—Business Communications....	3
CO/M 1030—Interpersonal Communication.	3

or	
JOUR 1000—Introduction to Mass Media	3
ENGL 1010—English I: Introduction to Composition	3
POLS 1000—American and Wyoming Government	3
or	
HIST 1210—United States History I	3
and	
HIST 1250—History of Wyoming	3
Wellness Education	2
TOTAL	20-24

Core Courses

Number and Title	Credits
PHTO 1600—Survey of Photography	3
PHTO 1610—Introduction to Photography	4
PHTO 1630—View Camera/Basic Lighting	4
PHTO 2350—Media Photography	3
PHTO 2510—Studio Illustration I	3
PHTO 2520—Studio Illustration II	3
PHTO 2610—Commercial Portrait I	3
PHTO 2620—Commercial Portrait II	3
PHTO 2650—Digital Imaging I	3
PHTO 2660—Web Page Design	3
PHTO 2710—Professional Portfolio I	4
PHTO 2720—Professional Portfolio II (Capstone Course)	4
PHTO 2740—Digital Color Photography	3
PHTO 2760—Introduction to Digital Multimedia	3
TOTAL	46

Electives

Number and Title	Credits
GRAR 1510—Introduction to Graphic Arts	3
GRAR 1800—Introduction to Macintosh	3
GRAR 1810—Electronic Publishing: PageMaker	3
GRAR 1820—Electronic Publishing: QuarkXPress	3
JOUR 1100—Reporting and Newswriting I	3
PHTO 1550—Outdoor Photography Seminar	2
PHTO 1980—Cooperative Education	1-6
PHTO 2450—Media Photography II	3
PHTO 2980—Cooperative Education	1-6

TOTAL CREDITS FOR DEGREE = 66

Faculty

R. Wilson, Chairperson
 K. Bieke, H. Bloom-Wilson, B. Bradley,
 R. Dechert, W. Hoagland,
 M. E. Ibarra-Robinson, D. Koelling,
 R. Koelling, R. Stothart

Humanities programs at Northwest College emphasize the development of critical thinking skills. Students pursuing a program of study within the Humanities Division at Northwest take courses not only in their field of study, but also in a wide range of areas which fulfill general graduation requirements.

While humanities programs are transfer-oriented, all courses are designed to fulfill students' needs for human enrichment and individual accomplishment. These courses are available for students who want to expand their experiences within the humanities, whether they are pursuing a Northwest College degree or certificate, or are attending on a part-time basis.

Associate of Arts Degree with specialization in

American Studies

English – Literary Studies or Writing
 Modern Languages – French or Spanish

American Studies

A two-year program of interdisciplinary study, the American Studies specialization focuses on multiple aspects of American culture as well as its relationships with global society. Closely collaborating with faculty advisors, students plan a coherent sequence of courses with an emphasis on one or more conventional academic disciplines, ranging from the humanities to the sciences, in combination with interdisciplinary core courses. By customizing one of the four American Studies Areas detailed below, students prepare for transfer to a variety of baccalaureate programs in the liberal arts.

American Studies is an ideal choice for students who wish to create a course of study outside the traditional curriculum. It is also an appropriate specialization for students who are undecided about a single major.

Students must successfully complete core courses with a "C-" or better to meet

specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF ARTS with specialization in AMERICAN STUDIES

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Core Courses: Required for all Areas

Number and Title	Credits
AMST 2010—Introduction to American Studies	3
HUMN 2420—Introduction to Cross-Cultural Studies	3
Capstone Course chosen in consultation with advisor	3
TOTAL 9	
Core Electives	12
TOTAL REQUIRED 21	

MINIMUM CREDITS FOR DEGREE = 64

Areas within the American Studies Specialization

Several areas are available within American Studies for students to customize their programs according to their unique combination of interests. The Interdisciplinary Studies Area offers the most possibilities for customizing a degree.

Interdisciplinary Studies

Students can use the Interdisciplinary Studies Area in American Studies to pursue a coherent program of study that:

- combines a general overview of issues in American life with a more specific, interdisciplinary study of a single theme; and
- develops the student's exploratory instincts and skills at forming thoughtful and intuitive connections.

Media & Culture Studies

The pervasive presence and effects of all forms of media are prompting a need for informed critics in addition to new practitioners. Students who choose the Media & Culture Studies Area in American Studies will:

- gain historical and critical overviews of forms of contemporary media;
- analyze the effects that the media have on social behavior and values; and
- explore current changes in the directions of technology and anticipate their impact on social behavior and values.

Regional Ecology & Cultural Values

American Studies students in this area would examine the frequently opposed perspectives of sciences and the humanities by taking courses that:

- study the history and geology of the Yellowstone ecosystem;
- consider the role played by ecological values in shaping artistic depictions of the region's natural environment;
- debate relevant current issues in the contexts of history and philosophy; and
- examine the social and political values that are invoked as the bases of public policies.

Examples of courses that can be taken to fulfill the Interdisciplinary Studies, Media & Culture Studies, or Regional Ecology & Cultural Values Areas are drawn from the listing of American Studies Core Electives that follows.

Core Electives

Students must complete 12 credits from the following courses selected in consultation with an advisor.

Humanities

Number and Title	Credits
Humanities	
HUMN 2030—Introduction to Folklore	3
HUMN 2360— "Born to Lose": The Cultural Narrative of Country Music	3
HUMN 2380—Popular Culture	3
HUMN 2445—U.S. Culture and Language for Foreign Students.....	3
HUMN 2450—Introduction to Film	3
HUMN 2460—Humanities Field Studies: .. 1-3	3
*HUMN 2490—Topics:	3

English

ENGL 2000—Introduction to Language	3
ENGL 2055—Creative Writing III: Writing in the Wild	3

ENGL 2310—American Literature I..... 3
 ENGL 2320—American Literature II..... 3
 * ENGL 2410—Literary Genres:..... 3
 * ENGL 2490—Topics: 3

Philosophy

PHIL 1000—Introduction to Philosophy 3
 PHIL 2200—Social and Political Philosophy 3

Visual & Performing Arts / Business / Graphics / Communication

Number and Title Credits

Art

ART 2020—Art History II..... 3
 ART 2055—Art in the Wild..... 3
 ART 2125—Graphic Design History..... 3

Communication

CO/M 1040 Introduction to Human Communication 3
 CO/M 2125 Family Communication 3
 * CO/M 2485 Sophomore Seminar: Communication 3

Journalism

JOUR 1000—Introduction to Mass Media 3

Music

MUSC 1057—Introduction to Jazz..... 3
 MUSC 2010—American Popular Music 3
 MUSC 2055—Music History Survey II 3
 MUSC 2360—”Born to Lose”: The Cultural Narrative of Country Music 3

Photography

PHTO 1600—Survey of Photography 3

Marketing

MKT 1240—Consumer Behavior 3
 MKT 1300—Advertising 3

Social Sciences

Number and Title Credits

Anthropology

ANTH 1200—Introduction to Cultural Anthropology 3
 ANTH 2210—North American Indian Cultures .. 3

Criminal Justice

CRMJ 2120—Introduction to Criminal Justice..3
 CRMJ 2210—Criminal Law 3
 CRMJ 2400—Criminology 3

History

HIST 1110—Western Civilization I..... 3
 HIST 1120—Western Civilization II 3
 HIST 1229—History of Yellowstone 3
 HIST 1250—History of Wyoming..... 3
 HIST 1280—History of Montana 3
 HIST 1290—History of the U.S. West..... 3
 HIST 2050—Introduction to Public History.. 3
 HIST 2149—Nuclear Century 3
 HIST 2290—North American Indians 3
 * HIST 2471—Internship: History 1-6

Political Science

POLS 1000—American and Wyoming Government 3

POLS 2000—Current Issues in American Government..... 3
 POLS 2010—Comparative Government..... 3
 POLS 2410—Introduction to Public Administration..... 3
 POLS 2460—Introduction to Political Theory3

Psychology

PSYC 2380—Social Psychology 3

Sociology

SOC 1100—Social Problems..... 3
 SOC 2410—Juvenile Delinquency 3

Social Sciences

* SOSC 2395—Seminar in Social Science Research (Capstone Course)..... 3

Sciences

Number and Title Credits

Agroecology

AECL 1000—Agroecology 4
 AECL 2010—Ecological Web: Soil 4

Biology

BIOL 1080—Environmental Science 3
 BIOL 2400—Ecology 3

Botany

BOT 2100—Forest Management 3

Chemistry

CHEM 2149—Nuclear Century..... 3

Geology

GEOL 1030—Geology of Northern Wyoming3
 GEOL 1035—Geology of Yellowstone National Park 1
 GEOL 1235—History and Geology of the Yellowstone Area 3
 GEOL 1546—Rocks and Minerals 1
 GEOL 1547—Heart Mountain, Volcanoes, and the Rockies 1
 GEOL 1548—Shallow Seas and Changing Climates 1
 GEOL 2325—Dinosaurs of Wyoming 2

Zoology

ZOO 2400—Vertebrate Natural History 4
 ZOO 2450—Wildlife Management 3

**Topics, Capstone, and other special courses vary widely in the subject matter they explore and, therefore, must be approved individually in order to be included as Core Electives in a student’s American Studies program of study.*

Native American Studies

Students working in this area explore the richness of Native American culture by following a course of study that incorporates multiple academic perspectives. Students plan a course sequence that:

- examines the cultural histories and artistic products of Native Americans,

- both today and in the past;
- considers issues that Native Americans face today, with attention to social institutions that directly affect the quality of contemporary Native American life.

Examples of courses that can be taken to fulfill the Native American Studies Area are drawn from the following list of American Studies Core Electives.

Core Electives

Students must complete 12 credits from the following courses selected in consultation with an advisor

ANTH 1200—Introduction to Cultural Anthropology 3
 ANTH 2210—North American Indian Cultures 3
 ART 2055—Art in the Wild 3
 BOT 2100—Forest Management 3
 ENGL 2055—Creative Writing III: Writing in the Wild 3
 ENGL 2320—American Literature II 3
 ENGL 2490—Topics: Native American Literature 3
 CO/M 2125—Family Communication 3
 HIST 1229—History of Yellowstone 3
 HIST 1250—History of Wyoming 3
 HIST 1280—History of Montana 3
 HIST 1290—History of U.S. West..... 3
 HIST 2290—North American Indians 3
 HUMN 2450—Introduction to Film 3
 POLS 2410—Introduction to Public Administration..... 3

English Education

Students who plan to teach at the secondary level should complete course-work both in the Secondary Education specialization and in English. Many options exist for teaching English, English/Communication, or English/Journalism, and students need to work closely with their Northwest advisors to monitor the requirements of transfer institutions.

For those interested in exploring teaching possibilities, opportunities exist at Northwest for peer tutoring experiences.

English - Literary Studies or Writing

A two-year program of study to prepare students for transfer, with an emphasis in Literary Studies or in Writing. Students normally transfer as English majors or English/Secondary Education

double majors. In order to achieve an AA with a specialization in English, students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**ASSOCIATE OF ARTS
with specialization in
ENGLISH – LITERARY STUDIES
OR ENGLISH – WRITING**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

**Core Courses
Literary Studies or Writing Areas**

Number and Title	Credits
HUMN 2440—Dialogues in the Humanities (Capstone Course).....	3
or	
HUMN 2385—Cyberculture—Cultural Impact of Information Technology (Capstone Course).....	3
TOTAL	3

**Core Courses
Literary Studies Area**

Students must take four ENGL courses selected from the following list.

Number and Title	Credits
ENGL 2000—Introduction to Language	3
ENGL 2050—Creative Writing: Prose I.....	3
or	
ENGL 2080—Creative Writing: Poetry I.....	3
ENGL 2210—English Literature I.....	3
ENGL 2220—English Literature II	3
ENGL 2230—Introduction to Shakespeare ...	3
ENGL 2280—Introduction to Mythology	3
ENGL 2310—American Literature I.....	3
ENGL 2320—American Literature II.....	3
ENGL 2410—Literary Genres:.....	3
TOTAL	12

**Core Courses
Writing Area**

Number and Title	Credits
ENGL 2410—Literary Genres.....	3
Choose 2 from the following list:	
ENGL 2017—Technical Writing	3
ENGL 2050—Creative Writing: Prose I.....	3
ENGL 2080—Creative Writing: Poetry I.....	3
JOUR 1100—Reporting and Newswriting I..	3
TOTAL	9

**Core Electives
Writing Area**

Students must choose two courses from the following options.

Number and Title	Credits
One 2000-level English composition course not already counted toward General Education or Required Core courses.....	3
Modern and classical language courses	3-4
TOTAL	6-7

Recommended Transfer and General Education Electives

for Literary Studies and Writing Areas
The following courses are recommended as electives to support the specialization for General Education Requirements and Transfer programs.

Number and Title	Credits
Second course in modern or classical language	3-4
HIST 1110—Western Civilization I.....	3
HIST 1120—Western Civilization II	3
One course from the following:	
ART 2010—Art History I.....	3
ART 2020—Art History II.....	3
MUSC 1000—Introduction to Music	3
MUSC 2050—Music History I.....	3
MUSC 2055—Music History II.....	3
THEA 2120—Oral Interpretation.....	3

MINIMUM CREDITS FOR DEGREE = 64

Foreign Language Education

Students who plan to teach at the secondary level should complete course-work both in the Secondary Education specialization and in their primary language (French or Spanish). Students need to work closely with their Northwest advisors to monitor the requirements of transfer institutions. Language majors have found it helpful to initiate study of a second foreign language during their first two years of college work. Northwest’s course offerings and scheduling support such an option.

Modern Languages

This specialization allows students to focus on the French or Spanish languages for their Associate of Arts degree. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. After completing the core requirements, students will have the foundation necessary to continue at the intermediate or advanced levels of French or Spanish at a transfer institution. With the choices offered in Recom-

mended Core Electives, students will also be exposed to a second foreign language and classes that focus on the relationship of language, culture and society. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**ASSOCIATE OF ARTS
with specialization in
MODERN LANGUAGES**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

**Core Courses
French Area**

Number and Title	Credits
HUMN 2440—Dialogues in the Humanities (Capstone Course)	3
and	
Any combination of the following classes equivalent to four semesters or 14-16 credits hours in French:	
FREN 1010—First Year French I.....	4
FREN 1020—First Year French II	4
FREN 2030—Second Year French I	4
FREN 2040—Second Year French II.....	4
FREN 2210—Intermediate Conversation and Composition I.....	3
FREN 1475—Independent Study in French...1-3	1-3
TOTAL	17-19

Recommended Transfer and General Education Electives

The following courses are recommended as electives to support the specialization for General Education Requirements and Transfer programs.

Number and Title	Credits
ANTH 1200—Introduction to Cultural Anthropology	3
ART 2020—Art History II.....	3
ENGL 1210—English As A Second Language	3
ENGL 2000—Introduction to Language	3
FREN 2460—French Field Studies:	1-3
GRK 1015—Elementary Biblical Greek I.....	4
HEBR 1010—First Year)	4
HUMN 2420—Introduction to Cross-Cultural Studies.....	3
HUMN 2445—Introduction to U.S. Culture...3	3
HUMN 2460—Humanities Field Studies ... 1-3	1-3
SPAN 1010—First Year Spanish I	4
SPAN 1020—First Year Spanish II	4
SPAN 2460—Spanish Field Studies:	1-3

**Core Courses
Spanish Area**

Number and Title	Credits
HUMN 2440—Dialogues in the Humanities (Capstone Course).....	3
and Any combination of the following classes equivalent to four semesters or 14-16 credits hours in Spanish:	
SPAN 1010—First Year Spanish I	4
SPAN 1020—First Year Spanish II	4
SPAN 2030—Second Year Spanish I	4
SPAN 2040—Second Year Spanish II.....	4
SPAN 2140—Introduction to Literature	3
SPAN 2210—Intermediate Conversation and Composition I.....	3
SPAN 2220—Intermediate Conversation and Composition II	3
SPAN 1475—Independent Study in Spanish..	1-3
TOTAL	17-19

Core Electives

Students should choose courses from the following list totaling 3-7 credits.

Number and Title	Credits
ANTH 1200—Introduction to Cultural Anthropology	3
ART 2020—Art History II.....	3
ENGL 1210—English As A Second Language	3
ENGL 2000—Introduction to Language	3
ENGL 2210—English Literature I.....	3
ENGL 2220—English Literature II	3
ENGL 2230—Introduction to Shakespeare ...	3
ENGL 2410—Literary Genres: Native American Literature	3
FREN 1010—First Year French I.....	4
FREN 1020—First Year French II	4
FREN 2460—French Field Studies:	1-3
GRK 1015—Elementary Biblical Greek I.....	4
HEBR 1010—First Year Hebrew	4
HUMN 2420—Introduction to Cross-Cultural Studies.....	3
HUMN 2445—Introduction to U.S. Culture...	3
HUMN 2460—Humanities Field Studies ...	1-3
SPAN 2460—Spanish Field Studies:.....	1-3

MINIMUM CREDITS FOR DEGREE = 64

Philosophy

Northwest College offers a small number of introductory-level philosophy courses which are open to all students, regardless of their educational or occupational goals. Courses in Critical Thinking and Introduction to Philosophy discuss essential issues in human experience and develop thinking skills in practical ways. Courses focused on Social and Political Philosophy and on Philosophy of Religion probe historical and contemporary social issues. In addition to fulfilling certain general education requirements, Northwest's offerings in Philosophy and other humanities areas can provide a basis for a major in philosophy (a popular pre-law choice) at four-year institutions.

Faculty

Floyd Young, Chairperson
 R. Abelita, J. Campbell, K. Clifton,
 S. Harbron, R. Hitchcock, E. Kimble,
 D. Lenhart, K. McCallister, M. Ohman,
 S. Pollart, K. Rochlitz, G. Wallace,
 T. Webb, J. Zeigler

Recent years have witnessed an unparalleled expansion of knowledge in all facets of human endeavor. The area of life and health science has been well represented in this expansion and today occupies an extremely active segment of the scientific community. Indeed, the pace has been so rapid that entire new fields now provide opportunities nonexistent a few years ago.

It is imperative today that all students gain understanding and appreciation of the earth on which we live and the life it supports. Understanding scientific reasoning is crucial to the development of a student's critical thinking capacities. Students also need wellness education. At a time when technology has increased the pace of life, knowing how to maintain physical health and well being becomes increasingly important. All of this places heavy responsibility on institutions of learning to provide current and relevant experiences so that each generation will be able to handle successfully the problems it will inherit. The Life and Health Science division at Northwest College strives to provide this experience.

Associate of Science Degree

Biology Department specializations in:

Biology
 Natural Resource Biology
 Occupational Therapy
 Physical Therapy
 Pre-Optometry
 Pre-Pharmacy
 Pre-Professional Sciences

Health/Outdoor/Physical Education

Department specializations in:

Athletic Training
 Outdoor Education
 Physical Education

Nursing Department specialization in:

Pre-Baccalaureate Nursing

Associate of Applied Science Degree

Nursing

Biology

The study of biology includes courses designed to help students acquaint themselves with the structure and function of living organisms and to appreciate some of the ecological relationships existing in the world of life. The biology courses required in this specialization parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Recommended courses are designed to aid students in completing their four-year degrees. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Biology Education

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school biology teachers are encouraged to complete both the Secondary Education specialization and at least a specialization in the subjects they plan to teach. Consult your advisor every semester when selecting courses.

ASSOCIATE OF SCIENCE with specialization in BIOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Eight hours of Science are fulfilled by taking Core Courses

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2020—General Biology II	4

BIOL 2395—Biological Research (Capstone Course).....	1
or	
BIOL 2385—Research in the Life and Physical Sciences (Capstone Course)	3

Core Electives

Students must take three courses from the following list of approved courses.

Number and Title	Credits
BIOL 2200—Genetics	3
BIOL 2400—Ecology	3
BIOL 2410—Field Ecology Lab.....	1
BOT 2050—Taxonomy of Flowering Plants	4
MOLB 2210—General Microbiology	4
ZOO 2400—Vertebrate Natural History	4
TOTAL 20-23	

Transfer and General Electives selected in consultation with advisor

Recommended Transfer and General Electives

Track I and Track II courses are designed to fulfill degree requirements at different four-year institutions.

Track I

Students seeking a degree more advanced than a Bachelor of Science should pursue Track I.

Number and Title	Credits
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
MATH 1450—Precalculus Algebra and Trigonometry	5
MATH 2350—Business Calculus I.....	5
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II.....	4
STAT 2050—Fundamentals of Statistics	3

Track II

Students stopping at an Associate of Science or Bachelor of Science Degree should follow Track II.

Number and Title	Credits
CHEM 1000—Introduction to Chemistry.....	5
CHEM 2300—Introduction to Organic Chemistry	4
MATH 1400—College Algebra	4
PHYS 1110—General Physics I	4
STAT 2050—Fundamentals of Statistics	3

Recommended General Electives for either Track

Number and Title	Credits
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research	3
PHIL 2420—Logic I: Critical Thinking	3

MINIMUM CREDITS FOR DEGREE = 64

Natural Resource Biology

This specialization includes areas in **Environmental Biology, Forestry, Resource Management, and Wildlife Management**. The specialization of Natural Resource Biology provides course work concerning ecological communities, plant and animal studies, and the Geographic Information System. The courses required in this specialization parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Transfer courses are designed to aid students in completing their four-year degrees. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in NATURAL RESOURCE BIOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Eight hours of Science will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2020—General Biology II	4
BIOL 2310—Introduction to Geographic Information Systems	3
BIOL 2400—Ecology	3
BIOL 2410—Field Ecology Lab.....	1
BIOL 2395—Biological Research (Capstone Course).....	1
or	
BIOL 2385—Research in the Life and Physical Sciences (Capstone Course).....	3

Core Electives

Students must take two courses from the following list of approved courses. Forestry students should take BOT 2050, Taxonomy of Flowering Plants and BOT 2100, Forest Management. Wildlife Management students should take ZOO 2400, Vertebrate Natural History and ZOO 2450, Wildlife Management.

Number and Title	Credits
BIOL 1080—Environmental Science	3
BOT 2050—Taxonomy of Flowering Plants.....	4
BOT 2100—Forest Management	3
ZOO 2400—Vertebrate Natural History	4
ZOO 2450—Wildlife Management	3
TOTAL	23-26

Transfer and General Electives selected in consultation with advisor

Recommended Transfer and General Electives

Track I and Track II courses are designed to fulfill degree requirements at different four-year institutions.

Track I

Students pursuing academic or research careers in Natural Resource Biology should follow Track I.

Number and Title	Credits
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
MATH 1450—Precalculus Algebra and Trigonometry.....	5
MATH 2350—Business Calculus I.....	5
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
STAT 2050—Fundamentals of Statistics	3

Track II

Students pursuing careers in the management or administration of natural resources should follow Track II.

Number and Title	Credits
CHEM 1000—Introduction to Chemistry.....	5
CHEM 2300—Introduction to Organic Chemistry.....	4
MATH 1400—College Algebra	4
PHYS 1110—General Physics I	4
STAT 2050—Fundamentals of Statistics	3

General Electives for either Track

AECL 2010—Ecological Web: Soil	4
CO/M 1010—Public Speaking	3
PHIL 2420—Logic I: Critical Thinking	3
POLS 2410—Introduction to Public Administration.....	3
RGMG 2000—Principles of Range Management.....	3

MINIMUM CREDITS FOR DEGREE = 64

Occupational Therapy and Physical Therapy

The courses required for these specializations parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in OCCUPATIONAL THERAPY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Eight hours of Science and three hours of Social Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
CHEM 1000—Introduction to Chemistry.....	5
or	
CHEM 1020—General Chemistry I	5
PSYC 1000—General Psychology	4
or	
SOC 1000—Sociological Principles	3
ZOO 2010—Human Anatomy and Physiology I	4
ZOO 2020—Human Anatomy and Physiology II.....	4
BIOL 2395—Biological Research (Capstone Course).....	1
or	
BIOL 2385—Research in the Life and Physical Sciences (Capstone Course).....	3
TOTAL	21-24

Transfer and General Electives selected in consultation with advisor

Recommended Transfer and General Electives

Number and Title	Credits
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research	3
MATH 1400—College Algebra	4
NRST 1200—Medical Terminology.....	1
STAT 2050—Fundamentals of Statistics	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF SCIENCE with specialization in PHYSICAL THERAPY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Four hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2020—General Biology II	4
MOLB 2210—General Microbiology	4
ZOO 2010—Human Anatomy and Physiology I	4
ZOO 2020—Human Anatomy and Physiology II	4
BIOL 2395—Biological Research (Capstone Course).....	1
or	
BIOL 2385—Research in the Life and Physical Sciences (Capstone Course)	3
TOTAL	21-23

Transfer and General Electives selected in consultation with advisor

Recommended Transfer and General Electives

Track I and Track II courses are designed to fulfill degree requirements at different four-year institutions.

Track I

Students who will attend four-year institutions offering graduate degrees (Master of Science) in physical therapy should follow Track I.

CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
CHEM 2300—Introduction to Organic Chemistry	4
MATH 1450—Precalculus Algebra and Trigonometry	5
MATH 2350—Business Calculus I	5
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
STAT 2050—Fundamentals of Statistics	3

Track II

Students who will attend four-year institutions that offer no higher than a Bachelor of Science degree in physical therapy should follow Track II.

CHEM 1000—Introduction to Chemistry.....	5
CHEM 2300—Introduction to Organic Chemistry	4
MATH 1400—College Algebra	4
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
STAT 2050—Fundamentals of Statistics	3

Recommended Transfer and General Electives for either Track

CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research	3
PHIL 2420—Logic I: Critical Thinking	3
PSYC 1000—General Psychology	4

MINIMUM CREDITS FOR DEGREE = 64

Pre-Optometry

The courses required in this specialization parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in PRE-OPTOMETRY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Four hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2020—General Biology II	4
CHEM 1020—General Chemistry I	5
or	
CHEM 1000—Introduction to Chemistry.....	4
ZOO 2010—Human Anatomy and Physiology I	4
ZOO 2020—Human Anatomy and Physiology II	4
BIOL 2395—Biological Research (Capstone Course).....	1
or	
BIOL 2385—Research in the Life and Physical Sciences (Capstone Course)	3
TOTAL	21-24

Transfer and General Electives selected in consultation with advisor

Recommended Transfer and General Electives

Number and Title	Credits
CHEM 1030—General Chemistry II	4
CHEM 2300—Introduction to Organic Chemistry	4
or	
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research	3
MATH 1450—Precalculus Algebra and Trigonometry	5
MATH 2350—Business Calculus I	5
STAT 2050—Fundamentals of Statistics	3
PHIL 2420—Logic I: Critical Thinking	3
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
PSYC 1000—General Psychology	4

MINIMUM CREDITS FOR DEGREE = 64

Pre-Pharmacy

The courses required in this specialization parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in PRE-PHARMACY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Four hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2020—General Biology II	4
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
MOLB 2210—General Microbiology	4
BIOL 2395—Biological Research (Capstone Course).....	1
or	

BIOL 2385—Research in the Life and Physical Sciences (Capstone Course)	3
TOTAL 22-24	

Transfer and General Electives selected in consultation with advisor 16-19

Recommended Transfer and General Electives

Number and Title	Credits
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research	3
MATH 1450—Precalculus Algebra and Trigonometry	5
MATH 2350—Business Calculus I	5
PHIL 2420—Logic I: Critical Thinking	3
PHYS 1110—General Physics I	4
STAT 2050—Fundamentals of Statistics	3

MINIMUM CREDITS FOR DEGREE = 64

Pre-Professional Sciences

This specialization includes areas in **Pre-Dentistry, Pre-Medicine, and Pre-Veterinary Medicine**. The courses required in this specialization parallel those found at four-year institutions and should transfer without difficulty. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in PRE-DENTISTRY, PRE-MEDICINE, and PRE-VETERINARY MEDICINE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Eight hours of Science are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
BIOL 1010—General Biology I	4
BIOL 2020—General Biology II	4

CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
BIOL 2395—Biological Research (Capstone Course)	1
or	
BIOL 2385—Research in the Life and Physical Sciences (Capstone Course)	3
TOTAL 18-20	

Transfer and General Electives selected in consultation with advisor 16-19

Recommended Transfer and General Electives

Number and Title	Credits
BIOL 2200—Genetics	3
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
CO/M 1010—Public Speaking	3
ENGL 2017—Introduction to Research	3
MATH 1450—Precalculus Algebra and Trigonometry	5
MATH 2350—Business Calculus I	5
MOLB 2210—General Microbiology	4
PHIL 2420—Logic I: Critical Thinking	3
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
ZOO 2400—Vertebrate Natural History	4

MINIMUM CREDITS FOR DEGREE = 64

Athletic Training

This specialization provides a solid foundation for students planning a career as an Athletic Trainer. It prepares students to transfer to institutions offering bachelor’s degrees in athletic training. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. At the beginning of the spring semester of their sophomore year, students must make application for admission to the professional Exercise and Sport Science-Athletic Training Option at the University of Wyoming and/or other four-year institutions with athletic training programs.

ASSOCIATE OF SCIENCE with specialization in ATHLETIC TRAINING

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Core Courses

Number and Title	Credits
ZOO 2010—Human Anatomy and Physiology	4
ZOO 2020—Human Anatomy and Physiology II	4
HLED 1225—First Aid/CPR	2
PEPR 1005—Introduction to Physical Education and Sport	2
KIN 1052—Prevention of Athletic Injury/Illness	3
KIN 1058—Emergency Management of Athletic Injury/Illness	3
KIN 2068—Athletic Training Clinical I	1
KIN 2057—Assessment and Evaluation of Athletic Injury/Illness I	3
KIN 2058—Assessment and Evaluation of Athletic Injury/Illness II (Capstone Course)	3
KIN 2078—Athletic Training Clinical II	1
TOTAL 26	
Transfer and General Electives selected in consultation with advisor	1-7

MINIMUM CREDITS FOR DEGREE = 64

Outdoor Education

This specialization provides a solid foundation for students planning careers teaching in a variety of outdoor adventure settings. This specialization also prepares students for transfer to institutions offering a bachelor’s degree in the areas of outdoor recreation leadership, adventure education, and allied fields. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in OUTDOOR EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Two hours of Wellness are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
HLED 1225—Standard First Aid and CPR ...	2
HLED 1270—Wellness	3

OEPR 1100—Introduction to Adventure Education	2
OEPR 1200—Winter Outdoor Survival	1
OEPR 1250—River Studies	2
OEPR 1620—Challenge Course Facilitation	2
OEPR 2100—Outdoor Education (Capstone Course)	2-4
OEPR 2200—Outdoor Programming and Administration	2
TOTAL 16-18	

Core Electives

Number and Title	Credits
OEPR 2110/EDCI 2110—NOLS Rocky Mountain Outdoor Education.....	4
or	
Students must select 5 courses from the following approved courses.	
OEAC 1100—Outdoor Living Skills: Desert	2
OEAC 1150—Outdoor Living Skills: Mountain	1
OEAC 1720—Advanced Rock Climbing	2
PEAC 1015—Beginning Scuba	1
PEAC 1258—Beginning Skiing.....	.5
PEAC 1259—Beginning Cross Country Skiing5
PEAC 1281—Beginning Casting and Angling5
PEAC 1285—Beginning Kayaking5
PEAC 1286—Spelunking5
PEAC 1287—Rock Climbing5
PEAC 1288—Bicycle Touring.....	.5
PEAC 1600—Ice Climbing.....	.5
PEAC 1560—Beginning Orienteering.....	.5
TOTAL 2.5-6.5	

Transfer and General Electives selected in consultation with advisor 17-23

Transfer and General Electives

Number and Title	Credits
ANTH 1100—Physical Anthropology	3
ANTH 1105—Physical Anthropology Lab....	1
ANTH 1300—Introduction to Archaeology ..	3
ASTR 1050—Survey of Astronomy	4
BIOL 1080—Environmental Science	3
BIOL 2400—Ecology	3
BIOL 2410—Field Ecology Lab.....	1
BOT 2050—Taxonomy of Flowering Plants	4
EDFD 2100—Educational Psychology	3
FCSC 1141—Principles of Nutrition	3
GEOL 1030—Geology of Northern Wyoming	3
GEOL 1035—Geology of Yellowstone National Park.....	1
GEOL 1100—Physical Geology.....	4
GEOL 1200—Historical Geology	4
PEPR 1005—Introduction to Physical Education	2
PHTO 1550—Outdoor Photography Seminar	2
PSYC 1000—General Psychology	4

MINIMUM CREDITS FOR DEGREE = 64

Physical Education

This specialization provides a solid foundation for students planning careers in Physical Education, Health Education, Teacher Education, and/or Coaching. It prepares students for transfer to institutions offering bachelor’s degrees in physical education. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Health Education

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school physical education teachers are encouraged to complete both the Secondary Education specialization and at least a specialization in the subjects they plan to teach. Consult your advisor every semester when selecting courses.

ASSOCIATE OF SCIENCE with specialization in PHYSICAL EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Eight hours of Science and one hour of Wellness are fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
HLED 1006—Personal Health.....	3
HLED 1225—Standard First Aid and CPR ...	2
or	
* PEPR 1040—Sport First Aid	2
PEPR 1005—Introduction to Physical Education	2
PEPR 1025—Movement Core II	2
PEPR 2000—Movement Core III	2
PEPR 2069—History and Philosophy of Sport	3
PEPR 2200—Physical Education, Health and Coaching Practicum (minimum of two credits).....	2-4

ZOO 2010—Human Anatomy and Physiology I	4
ZOO 2020—Human Anatomy and Physiology II	4
TOTAL 24-26	

Recommended Transfer and General Electives	13-16
BIOL 1000—Principles of Biology	4
or	
BIOL 1010—General Biology I	4
Electives	9-12

** Students interested in coaching are strongly encouraged to take Sport First Aid.*

Transfer and General Electives for a Teacher Education Program in Physical Education

Number and Title	Credits
EDFD 2100—Educational Psychology	3
EDFD 2020—Foundations of Education	3
* EDUC 2100—Public School Practicum	3-6
PEPR 2012—Physical Education for Elementary School	3
PSYC 1000—General Psychology	4
OEPR 1100—Introduction to Adventure Education	2

** Will count as the Capstone Course*

Transfer and General Electives for a Coaching Endorsement

Number and Title	Credits
HLED 1225—Standard First Aid and CPR ...	2
or	
* PEPR 1040—Sport First Aid	2
PEPR 2050—Care and Prevention of Athletic Injury/Illness	2
PEPR 2110—Scientific Foundations of Athletic Coaching.....	2
PEPR 2100—Theory of Coaching	2
PSYC 1000—General Psychology	4
PSYC 1200—Human Development.....	3

** Students interested in coaching are strongly encouraged to take Sport First Aid*

Transfer and General Electives for a Health Focus

Number and Title	Credits
FCSC 1141—Principles of Nutrition	3
HLED 1005—Risky Behaviors.....	3
HLED 1225—Standard First Aid and CPR ...	2
HLED 1270—Wellness.....	3
HLED 1271—Diet and Exercise.....	2
PEPR 2050—Care and Prevention of Athletic Injury/Illness	2
PSYC 1000—General Psychology	4
PSYC 2200—Human Sexuality	3

MINIMUM CREDITS FOR DEGREE = 64

Associate of Science Pre-Baccalaureate Nursing

A two-year pre-nursing program must closely resemble that required by BSN schools of nursing. We strongly encourage students to work with an advisor at Northwest and the college or university you plan to transfer to before selecting course work.

ASSOCIATE OF SCIENCE with specialization in PRE-BACCALAUREATE NURSING

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Core Courses	
Core Courses	21-24

The pre-baccalaureate Nursing Program requires a strong core of general education and science courses. Students should develop a plan of study with their advisor.

TOTAL 21-24

MINIMUM CREDITS FOR DEGREE = 64

Associate of Applied Science Nursing

The Northwest College associate of applied science degree nursing program is approved by the Wyoming State Board of Nursing and accredited by the National League for Nursing Accrediting Commission. (NLNAC, 61 Broadway 33rd Floor, New York, NY, 10006, 800-669-1656, ext. 153, FAX 212-812-0390.) The two-year program of study leads to an associate of applied science degree in nursing. Upon successful completion of the program, students are eligible to take the National Council Licensure Examination for Registered Nursing.

The program is open to all individuals interested in a career in nursing. Classroom, laboratory, and clinical experience are integrated throughout the program. The student gains nursing experience in patient care under the direct supervision of qualified instructors.

To be eligible for graduation from NWC, students must satisfactorily com-

plete the curriculum as outlined in the NWC catalog for the academic year of admission into the nursing program.

Criteria for admission to the nursing program are:

- Completion of standard Northwest College application.
 - Completion of a nursing program Letter of Intent.
 - Three letters of reference.
 - A goal statement addressing the reason for the choice of nursing as a career and what the role of a nurse is.
 - Evidence of high school graduation or GED (score of 50 or above).
 - Cumulative GPA of 2.5 (most recent high school transcript) on last 12 credits of college course work or GPA on those courses taken as required by the Northwest College Nursing Program (at least 12 credits).
 - Placement at math level 2 (eligible to take MATH 0930). Math testing is required for courses older than five years.
 - English Placement at College Level (eligible to take ENGL 1010) or successful completion of DVST 0610 Basic Writing II.
 - Reading Placement Score 76 or above or successful completion of DVST 0520—Fundamentals of Reading II.
 - Completion of a high school or college science course, such as biology, anatomy and physiology, chemistry, or its equivalent, within the last five years with a 2.0 or better.
 - ACT score of 20 (applies to first two years after high school graduation. Successful college work may fulfill this criteria).
 - Nurse entrance test composite percentage of 74 or above.
 - Evidence of successful completion of a Nursing Assistant course which makes the candidate eligible for certification or certified as a Nursing Assistant. (This is not required for acceptance into the program, but it is required prior to entrance into the Fall semester, Freshmen year.)
- Students admitted to the program may anticipate additional expenses for student uniforms, name pins, shoes, liability insurance fees, travel to clinical facilities, stethoscopes, bandage scissors, licensure fees, plus meals, transportation, and housing for off-campus activities. Students must provide their own transportation to the clinical facilities.

Current licensure as a Practical

Nurse or completion of a practical nursing program is required to be eligible for advanced placement into the second year of the Nursing Program. Students will be admitted for advanced placement depending on space availability and the following:

- Completion of a standard Northwest College application.
- Completion of an Advanced Placement nursing program Letter of Intent.
- Cumulative GPA of 2.5 on a 4 point scale from the practical nursing program attended.
- Completion of the LPN Gap Test.
- Completion of a Skills Laboratory and Clinical Challenge Examination, if deemed necessary by the Admissions Screening Committee.
- Licensure as a practical nurse or eligibility for Licensure Examination for Practical Nursing.
- Completion of the following general education courses with a grade of “C” or better:
 - Human Anatomy and Physiology (8 credits with 4 credits within the last 5 years).
 - General Psychology (4 credits).
 - Communication for Health Care Professionals (2 credits).
 - Introduction to Composition (3 credits).
- Placement at math level 2 (eligible to take MATH 0930). Placement testing within the last five years.
- Completion of a high school or college science course, such as biology, anatomy and physiology, chemistry, or its equivalent, within the last five years with a 2.0 or better.
- Completion of NRST 2500—Role Transition – PN to RN.

ASSOCIATE OF APPLIED SCIENCE NURSING

General Education Requirements

Number and Title	Credits
ANTH 1200—Cultural Anthropology	3
or	
SOC 1000—Sociology Principles.....	3
ENGL 1010—Introduction to Composition ..	3
ENGL 2030—Critical Reading & Writing ...	3
or	
ENGL 2017—Introduction to Research	3
CO/M 1025—Communication for Health Professionals.....	2
MATH 1000—Problem Solving	3
or	
MATH 1400—College Algebra	4
* MOLB 2210—General Microbiology	4
PEAC—Wellness and Activity.....	1
POLS 1000—American and Wyoming	

Government.....	3
or	
HIST 1221—The United States from 1865 ...	3
or combination of	
HIST 1210—United States History I.....	3
and	
HIST 1250—History of Wyoming.....	3
PSYC 1000—General Psychology	4
* ZOO 2010—Human Anatomy and	
Physiology I	4
* ZOO 2020—Human Anatomy and	
Physiology II	4
TOTAL	34-38

** Required science course work for admission must be taken within the past five years from the date of admission into the nursing program (unless a bachelor's degree or higher has been earned in a science/health science field). A student may take a course a maximum of two times to earn a d 2.0 or better to enter into the Nursing Program or to be allowed to continue in the program once admitted.*

Core Courses

Number and Title	Credits
NRST 1000—Fundamentals of Nursing	3
NRST 1540—The Culture of Professional	
Nursing.....	1
NRST 1580—Introduction to Medication	
Administration	2
NRST 1710—Clinical Experience I	2
NRST 1630—Mental Health Nursing.....	2
NRST 1700—Nursing Care of the Adult I....	4
NRST 1720—Clinical Experience II	4
NRST 2600—Nursing Care of the Adult II ...	3
NRST 2620—Maternal Child Nursing I.....	2
NRST 2730—Clinical Experience III.....	5
NRST 2760—Leadership Management	
(Capstone Course).....	2
NRST 2750—Nursing in the Community	1
NRST 2770—Maternal Child Nursing II.....	2
NRST 2740—Clinical Experience IV	5
TOTAL	38

MINIMUM CREDITS FOR DEGREE = 72-76

Faculty

D. Barkan, Chairperson
 A. Childs, D. Gemoets, R. Krenz,
 L. Lord, A. Northrup, M. Stewart,
 N. Waite, N. Walker, F. Watkins,
 B. Watne, G. White, W. White

Study in the physical sciences constitutes observation of our surroundings and an attempt to describe these observations, frequently with the language of mathematics. From these attempts, our understanding of the universe, from the smallest subatomic particles to the farthest galaxies, has developed and is developing. The scientist or engineer is often involved in both the development of this understanding and its application for the betterment of humankind. The fields of physics, chemistry, engineering, astronomy, geology, and mathematics are housed in the Physical Science Division. Individuals wanting to prepare for transfer with an emphasis in any of these fields should pursue an Associate of Science degree. Courses used to satisfy prerequisites for courses in the Physical Science Division require a grade of "C-" or better. The individual program of study will be developed in consultation with an academic advisor.

Associate of Science Degree with specialization in

- Chemistry
- Computer Science
- Drafting
- Engineering
- Mathematics
- Physics

Associate of Applied Science Degree

- Drafting

Chemistry

Chemistry courses are offered primarily to those students who want chemistry to fill their science course requirements including pre-medicine, pre-veterinary, pre-dentistry, and pre-optometry. Individuals who want to specialize in chemistry should work closely with their

advisor to devise a suitable Associate of Science degree program.

The Associate of Science specialization in chemistry emphasizes the traditional areas of chemistry at the freshman and sophomore level. The specialization provides basic education in chemistry with sufficient flexibility to allow students to transfer to a variety of four-year schools offering bachelor's degrees in chemistry. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Chemistry Education

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school teachers in chemistry are encouraged to complete both the Secondary Education specialization and at least a specialization in the subjects they plan to teach. Consult your advisor every semester when selecting courses.

ASSOCIATE OF SCIENCE with specialization in CHEMISTRY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Four hours of Science and three hours of Mathematics will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
CHEM 2320—Organic Chemistry I	4
CHEM 2340—Organic Chemistry II	4
MATH 2200—Calculus I	5
MATH 2205—Calculus II	5
MATH 2310—Applied Differential Equations I (Capstone Course)	3
or	
BIOL 2395—Biological Research (Capstone Course)	1
or	

CHEM 2385—Research in the Life and Physical Sciences (Capstone Course)	3
TOTAL 28-30	

Transfer and General Electives selected in consultation with advisor

Transfer and General Electives

It is very strongly recommended that students intending to seek a four-year degree in chemistry take at least three courses (11 hour minimum) from the following. Two of the three courses should be a PHYS sequence.

Number and Title	Credits
CHEM 2230—Quantitative Analysis	4
MATH 2210—Calculus III	5
MATH 2310—Applied Differential Equations I (Capstone Course)	3
PHYS 1110—General Physics I	4
PHYS 1120—General Physics II	4
PHYS 1310—College Physics I	4
PHYS 1320—College Physics II	4

MINIMUM CREDITS FOR DEGREE = 64

Computer Science

Computer science is the study of the limits and use of computers. Applications of computer science pervade most fields: medicine (x-ray analysis), engineering, communications (programming cell phones to successfully communicate with each other), entertainment (digital movies and video games), and home computing (word processing and the internet.) The delivery of this specialization couples the art and science of programming with study of math, physics and the building blocks of computing machines to provide a balanced overview of the field.

This program focuses on framing and solving problems, learning skill sets necessary to solve these problems, and developing thought processes needed for further understanding in computer science. Emphasis is on the enduring concepts rather than current syntax. The computer science specialization is intended for transfer to a four year institution or as a background for computer related careers.

ASSOCIATE OF SCIENCE with specialization in COMPUTER SCIENCE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	31-37

Four hours of Science and three hours of Mathematics will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
COSC 1010—Introduction to Computer Science	4
PHYS 1320—College Physics II	4
MATH 2200—Calculus I	5
MATH 2205—Calculus II	5
MATH 2210—Calculus III	5
ES 2210—Electrical Circuit Theory	4
MATH 2310—Applied Differential Equations (Capstone Course).....	3
or	
ES 2385—Research in the Life and Physical Sciences (Capstone Course)	3
TOTAL 30	
Transfer and General Electives selected in consultation with advisor	13-16

Transfer and General Electives

It is strongly recommended that students intending to seek a four-year degree in computer science take at least the following courses.

Number and Title	Credits
PHYS 1310—College Physics I.....	4
MATH 2310—Applied Differential Equations.....	3

Drafting

Drafting technology includes courses in mechanical and architectural drafting, cartography, mathematics, science, communications and a wide range of electives including engineering. Students are expected to have keyboarding skills. Graduates of the program can elect to seek employment in industry or transfer to a bachelor's degree program. The program provides an excellent background for further study in related fields including engineering, architecture, construction, technical education, and graphics. An Associate of Applied Science degree is also available for those who desire to enter the field after two years of study.

This specialization is designed to allow students to receive an associate of science degree with a specialization in draft-

ing. Students who successfully complete the specialization will have a foundation to seek employment or transfer to a four-year school in drafting. Students must complete the core courses with a "C-" or better in each class. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in DRAFTING

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Core Courses

Number and Title	Credits
ENTK 1510—Drafting I	3
ENTK 1520—Drafting II.....	3
ENTK 1710—Architectural Drafting I.....	3
ENTK 1720—Architectural Drafting II.....	3
ENTK 1800—Cartography	3
ENTK 2500—Computer Aided Drafting I....	3
ENTK 2505—Computer Aided Drafting II ...	3
ENTK 2510—Computer Aided Drafting III..	3
ENTK 2530—Computer Aided Drafting 3-D (Capstone Course)	3
TOTAL 27	

Transfer and General Electives selected in consultation with advisor

Transfer and General Electives

Students who are planning to transfer to a four-year program in drafting or who plan to enter the workforce in drafting related fields will need to have additional hours beyond the specialization requirements at Northwest. These students should take courses from the following list of suggested electives in consultation with their advisors.

Number and Title	Credits
ACCT 2010—Principles of Accounting I.....	4
ART 1110—Design: 2-D	3
ART 1120—Design: 3-D	3
BMIS 2000—Computer Information Systems	3
BOTK 2950—Employment Orientation	1
CMAP 1610—Windows I.....	1
CMAP 1650—Local Area Networks I.....	3
ENGL 2010—Technical Writing	3
ENTK 1750—Commercial Architectural Drafting	3
ENTK 2070—Engineering Surveying	3
GRAR 1510—Introduction to Graphic Arts..	3

ASSOCIATE OF APPLIED SCIENCE DRAFTING

General Education Requirements

Number and Title	Credits
ENGL 1010—English I: Introduction to Composition	3
ENGL 2010—Technical Writing	3
or	
BADM 1020—Business Communication.....	3
MATH 1405—Precalculus Trigonometry	3
or	
MATH 1450—Precalculus Algebra and Trigonometry.....	5
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—The United States from 1865 ...	3
or	
HIST 1210—United States History I.....	3
and	
HIST 1250—History of Wyoming.....	3
Humanities/Soc Sci/V & P Arts	6
Wellness Education	2
TOTAL 20-25	

Core Courses

Number and Title	Credits
BOTK 2950—Employment Orientation	1
ENTK 1510—Drafting I	3
ENTK 1520—Drafting II	3
ENTK 1710—Architectural Drafting I.....	3
ENTK 1720—Architectural Drafting II.....	3
ENTK 1750—Commercial Architectural Drafting	3
ENTK 1800—Cartography I.....	3
ENTK 2070—Engineering Surveying	3
ENTK 2500—Computer Aided Drafting I....	3
ENTK 2505—Computer Aided Drafting II ...	3
ENTK 2510—Computer Aided Drafting III (Capstone Course).....	3
TOTAL 31	

Electives *

Number and Title	Credits
ACCT 1050—Practical Accounting.....	3
ART 1110—Design: 2-D	3
ART 1120—Design: 3-D	3
ART 2120—Graphic Design I	3
BMIS 2000—Computer Information Systems..	3
CHEM 1010—Principles of Chemistry	4
CMAP 1650—Local Area Networks	3
CMAP 1680—Microcomputer Applications..	1-3
GRAR 1810—Electronic Publishing I.....	3
PHOTO 1610—Introduction to Photography ...	3
PHYS 1050—Concepts of Physics	4

TOTAL CREDITS FOR DEGREE = 64

* Consult with advisor. Choose a minimum of 13 elective credits.

Engineering

The various fields in engineering are related in that they all require a thorough understanding of basic scientific laws. Engineers apply scientific knowledge and principles to the design and operation of machines, to the selection of materials, to the environmental betterment of humankind, and to the economical use of personnel, money, and energy.

The Associate of Science specialization in engineering emphasizes the traditional core of engineering at the freshman and sophomore level. The specialization provides basic education in engineering with sufficient flexibility to allow students to transfer to a variety of four-year schools offering bachelor of science degrees in engineering. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in ENGINEERING

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Three hours of Mathematics may be fulfilled by taking Core Courses.

Core Courses

The following courses are traditionally considered to be the core of the first two years of an engineering curricula, as dictated by the American Board of Engineering and Technology Education (ABET) and by the content of the Fundamentals of Engineering Exam (FE).

Number and Title	Credits
ES 1000—Orientation to Engineering	1
ES 2110—Statics	3
ES 2120—Dynamics	3
MATH 2200—Calculus I	5
MATH 2205—Calculus II	5
MATH 2210—Calculus III	5
MATH 2310—Applied Differential Equations I (Capstone Course)	3
TOTAL	25

Transfer and General Electives selected in consultation with advisor

Transfer and General Electives

The student who plans to transfer to a four-year program in engineering will need to have additional hours beyond the specialization requirements at Northwest. These students should take courses from the following list of suggested electives in consultation with their advisors.

Number and Title	Credits
CHEM 1020—General Chemistry I	5
CHEM 1030—General Chemistry II	4
ENGL 2010—Technical Writing	3
ENTK 1510—Drafting I	3
ENTK 2070—Engineering Surveying	3
ENTK 2500—Computer Aided Drafting I	3
ENTK 2505—Computer Aided Drafting II ...	3
ENTK 2510—Computer Aided Drafting III ...	3
ES 1060—Introduction to Engineering Computing	3
ES 2210—Electrical Circuit Theory	4
ES 2310—Thermodynamics	4
ES 2330—Fluid Dynamics/Mechanics	3
ES 2410—Mechanics of Materials	3
PHYS 1310—College Physics I	4
PHYS 1320—College Physics II	4

Geology

Northwest offers several courses in Geology. The science of geology is concerned with the materials, processes, and history of the earth. It attempts to explain how the earth changes. As such, it contributes to our understanding of our environment, its resources, hazards, and limits.

Employment opportunities exist with government agencies and with consulting firms. The work ranges from resource development and solution of environmental problems to pure research into the origins and history of the earth. Education for employment requires a broad background in the physical and mathematical sciences. Most professional geologists have master's degrees.

Students who are planning to transfer to a four-year program should consult with their advisor and the appropriate four-year college catalog.

Mathematics

Mathematics courses are designed to meet the needs of students in all departments of the college: students who plan to teach mathematics; those specializing in such fields as chemistry, physics, and engineering who need a foundation in

mathematics; and students who pursue other academic careers and want practice in the art of logical, clear, and accurate thinking.

Individuals who want to concentrate in mathematics in a program designed for transfer to a senior institution may pursue an associate of science degree in mathematics.

The Associate of Science specialization in mathematics emphasizes the traditional core of mathematics at the freshman and sophomore level. The specialization provides basic education in mathematics with sufficient flexibility to allow students to transfer to a variety of four-year schools offering bachelor of science degrees in mathematics. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Mathematics Education

To facilitate transfer to a four-year college as a junior, students planning to become middle school or high school teachers are encouraged to complete both the Secondary Education specialization and at least a specialization in the subjects they plan to teach. Consult your advisor every semester when selecting courses.

ASSOCIATE OF SCIENCE with specialization in MATHEMATICS

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Three hours of Mathematics may be fulfilled by taking Core Courses.

Core Courses

Students must complete four of the five courses.

Number and Title	Credits
MATH 1405—Precalculus Trigonometry	3
or	

MATH 1450—Precalculus Algebra/ Trigonometry.....	5
MATH 2200—Calculus I.....	5
MATH 2205—Calculus II.....	5
MATH 2210—Calculus III.....	5
MATH 2310—Applied Differential Equations I (Capstone Course)	3
TOTAL	18-20

(Students taking MATH 2310 may use it for their capstone course. Students not taking MATH 2310 will need to take a different capstone course selected in consultation with their advisors.)

Transfer and General Electives selected in consultation with advisor 21-28

Physics

Physics seeks to understand the fundamental laws that govern the universe from galaxies to subatomic particles. Individuals who want to prepare for transfer to a senior institution should work closely with their advisors to devise suitable associate of science degree programs.

The associate of science specialization in physics emphasizes the traditional foundations for physics at the freshman and sophomore level. It provides basic education in physics and related support areas such as chemistry and mathematics, as well as sufficient flexibility to allow students to transfer to a variety of four-year bachelor's degree programs in physics. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in PHYSICS

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	31-37

Four hours of Science and three hours of Mathematics will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
MATH 2200—Calculus I.....	5
MATH 2205—Calculus II.....	5
MATH 2210—Calculus III.....	5
MATH 2310—Applied Differential Equations I (Capstone Course)	3
PHYS 1310—College Physics I.....	4
PHYS 1320—College Physics II.....	4
TOTAL	26

Transfer and General Electives selected in consultation with advisor..... 19-22

Transfer and General Electives

Students who are planning to transfer to a four-year program in physics or physics education will need to have additional hours beyond the specialization requirements at Northwest. These students should take courses from the following list of suggested electives in consultation with their advisors.

Number and Title	Credits
ASTR 1050—Survey of Astronomy.....	4
CHEM 1020—General Chemistry I.....	5
CHEM 1030—General Chemistry II.....	4
ES 1060—Introduction to Engineering Computing.....	3
ES 2110—Statics.....	3
ES 2120—Dynamics.....	3
ES 2210—Electrical Circuit Theory.....	4
ES 2310—Thermodynamics.....	4

Faculty

G. Sturmer, Chairperson
 M. A. Atwood Wurzel, D. Brophy,
 D. Erickson, J. Johnston, M. Mackey,
 D. Nelson, S. Thulin, D. Wheeler,
 K. Williams, W. Wolfe

The social sciences analyze the past and present behavior of people in an attempt to discover patterns of behavior. The areas of concern for the social sciences include the physical environment; social, political and economic institutions; and the development and understanding of human experiences and ideas. Social science courses offer opportunities to enhance our understanding of human behavior and to sharpen our perceptions.

The Social Science and Education Division at Northwest College is committed to providing programs for students planning to transfer to four-year institutions. Our programs reflect a concerted effort on the part of the faculty to present rigorous and thorough course work. Social science students will receive extensive preparation for the junior year and be provided with a solid foundation for life.

The faculty in this division and the entire college is deeply committed to providing quality education. We believe we offer a wide range of courses and programs in a stimulating and challenging environment. Students may sample or concentrate in any of the areas that are presented in this catalog. Individual programs of study will be developed by students in consultation with an academic advisor.

Associate of Arts Degree with specialization in

- Anthropology
- Early Childhood Education
- Elementary Education
- Secondary Education
- History
- Political Science
- Psychology
- Religious Studies
- Social Science
- Sociology

Associate of Science Degree with specialization in

- Archaeology Technology
- Early Childhood Education

Elementary Education
 Secondary Education

Northwest College Skills Certificate Option

Archaeological Technician

Anthropology

Anthropology is the study of human beings, focusing on their origin and physical development (physical anthropology) as well as on their way of life (cultural anthropology). Anthropologists study all aspects of human life: social behavior, values, personality, language, government, history, prehistory, technology, art, healing, religion, housing, clothing, and economics.

This specialization allows students to focus on anthropology for their associate of arts degree. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF ARTS with specialization in ANTHROPOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Six hours of Social Science and six hours of Multi-Cultural Awareness will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
ANTH 1200—Introduction to Cultural Anthropology	3
ANTH 1300—Introduction to Archaeology ..	3
ANTH 2200—World Ethnography	3
ANTH 2210—North American Indian Cultures	3
Capstone Course (in consultation with advisor).....	1-3
TOTAL	13-15

Core Electives

Students must complete six credits from the following list of approved courses.

Number and Title	Credits
ANTH 1100—Physical Anthropology	3
ANTH 1105—Lab (optional).....	1
ANTH 1250— Archaeology of Wyoming	3
ANTH 2310—Archaeological Field Methods.....	1-6
ANTH 2350—Biblical Archaeology	3
ANTH 2470—Internship: Anthropology	1-6
TOTAL	6

General Electives selected in consultation with advisor..... 13-19

MINIMUM CREDITS FOR DEGREE = 64

Archaeology Technology

Archaeology technology encompasses both archaeology and a number of sciences and technologies that are used in:

- excavation and analysis of materials that are discovered.
- analysis, curation, and storage of those materials.
- museum display.
- reconstruction of past environments.
- publication of the results of excavation.

In order to achieve an associate of science degree with a specialization in Archaeology Technology, students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF SCIENCE with specialization in ARCHAEOLOGY TECHNOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Three to six hours of Social Science and three hours of Multi-Cultural Awareness will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
ANTH 1300—Introduction to Archaeology ..	3

ANTH 2310—Archaeology Field Methods	2-6
BIOL 2395—Biological Research	1
or	
SOSC 2395—Seminar in Social Science Research	3
or	
Another capstone course approved by advisor	3
TOTAL	6-12

Core Electives

Students must take four courses (12 credits) from the following list of core electives, at least one course from each of the three categories.

Environmental Science and Related Subjects

Number and Title	Credits
AECL 1000—Agroecology	4
AECL 2020—Ecological Web: Agronomic and Horticultural Plan Biology	4
BIOL 1080—Environmental Science	3
BIOL 2400—Ecology	3
BOT 2100—Forest Management	3
GEOL 1100—Physical Geology	4
GEOL 1200—Historical Geology	4
HORT 1100—Introduction to Horticulture	3
ZOO 2400—Vertebrate Natural History	4
ZOO 2450—Wildlife Management	3

Technical Skills and Knowledge

Number and Title	Credits
ART 1050—Drawing I	3
ART 2010 —Art History I	3
ART 2020—Art History II	3
ART 2100—Computer Graphics I	3
ART 2410—Ceramics I	3
ART 2420—Ceramics II	3
BIOL 2310—Geographic Information Systems	3
BMIS 2000—Computer Information Systems	3
ENGL 2010—Technical Writing	3
ENTK 1530—CAD Applications	3
ENTK 1800—Cartography	3
ENTK 2070—Engineering Survey	3
PHTO 1500—35mm Camera (or other appropriate photo course)	1-3

Anthropology and Related Subjects

Number and Title	Credits
ANTH 1100—Physical Anthropology	3
ANTH 1105—Physical Anthropology Lab	1
ANTH 1200—Introduction to Cultural Anthropology	3
ANTH 1250—Archaeology of Wyoming	3
ANTH 2210—North American Indian Cultures	3
ANTH 2350—Biblical Archaeology	3
ANTH 2470—Internship: Anthropology	1-6
G&R 1000—Introduction to Geography	3
HIST 2050—Introduction to Public History	3

MINIMUM CREDITS FOR DEGREE = 64

NORTHWEST COLLEGE SKILLS CERTIFICATE

ARCHAEOLOGICAL TECHNICIAN
The Archaeological Technician Certificate program requires a student to complete three 2-credit field schools or two 3-credit field schools for a total of six credits. A certificate is awarded listing

the specific skills learned during the particular field school. Currently, choices for field school include three 10-day summer field schools in Wyoming (2 credits each), and a one month field school in Israel (3 credits).

Economics

Economics examines the institutions and processes that humanity has developed to allocate scarce resources for the purpose of satisfying human needs. Through these courses, students will develop an understanding of the economic system and the complexities of today’s economic problems. Economics courses are recommended for students interested in social science and business.

Education

The first two years of preparation for a career as an elementary, middle school, or secondary teacher can be accomplished at Northwest College. The Education Department offers courses which teach the basic principles and theories of teaching and learning. Through the cooperation of public school personnel, our students observe and gain practical experience in public school classrooms throughout the Big Horn Basin.

Academic advisors guide students in their career choices as well as advise them on course selection and transfer options.

Since teaching requires state certification, it is important that students consult with their advisors frequently to become informed of program requirements at four-year colleges. The catalog of the four-year transfer college must be consulted by the student when selecting courses.

Elementary Education

Students completing the Elementary Education specialization can readily use it for transfer to a four-year college or as a terminal degree which would qualify them to obtain a substitute teaching certificate in the state of Wyoming. The core courses provide students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must success-

fully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program will need additional courses beyond the specialization requirements in order to transfer as a junior. Students should consult with their advisor and the appropriate four-year college catalog. Selection of General Education courses is often restricted by state certification requirements, so it is important for students to meet with their academic advisor each semester.

ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE with specialization in ELEMENTARY EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	
.....36-42 (AA degree)	
.....31-37 (AS degree)	

Two hours of Wellness, three hours of Social Science, and three hours of MATH may be fulfilled by taking Core Electives.

Core Courses

Number and Title	Credits
EDFD 2100—Educational Psychology	3
EDFD 2020—Foundations of Education	3
EDUC 2100—Public School Practicum: Observation and Participation (3-6 credit, 3 credit minimum required)	3
TOTAL	9

Core Electives

Students must complete twelve credits from the following list of approved courses.

Number and Title	Credits
BMIS 2000—Computer Information Systems	3
or	
GRAR 1800—Introduction to Macintosh (or equivalent skills)	3
EDEX 2320—Introduction to Teaching Special Learners	3
HLED 1225—Standard First Aid & CPR	2
LIBS 2280—Literature for Children	3
MATH 1100—Theory of Arithmetic I	3
MATH 1105—Theory of Arithmetic II	3
PEPR 2012—Physical Education for Elementary Teachers	3
PSYC 1200—Human Development	3

General electives selected in consultation with advisor 4-15

Early Childhood Education

This specialization allows students to focus on early childhood education for their associate of arts degree. Students completing this specialization can use this as a terminal degree and apply for CDA certification to work in a child care setting or apply for a substitute teaching certificate to work in the public schools in the state of Wyoming. Additionally, the transfer student could readily transfer to a university offering a four-year degree in early childhood teaching or other areas of service to young children. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE with specialization in EARLY CHILDHOOD EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	
..... 36-42 (AA degree)	
..... 31-37 (AS degree)	

Three hours of Humanities and three hours of Social Science may be fulfilled by taking Core Electives.

Core Courses

All the Core Courses meet outcome standards for Wyoming Teacher Certification in Early Childhood Education.

Number and Title	Credits
EDCI 2200—Early Childhood Practicum 3-5 credits (minimum 3 required) (Capstone Course)	3
EDEC 1020—Introduction to Childhood Education	3
EDEC 1300—Curriculum Planning and Development For Young Children.....	3
FCSC 2121—Child Development.....	4
TOTAL	13-15

Core Electives

Students must complete eight credits from the following list of approved courses.

Number and Title	Credits
CO/M 2125—Family Communication	3
EDEC 1030—Infant Toddler Care	3
EDEC 1200—Administration in Early Childhood Programs	3
EDEC 2020—Child Guidance	3
EDEX 2320—Introduction to Teaching Special Learners.....	3
FCSC 1140—Nutrition	2
or	
FCSC 1141—Principles of Nutrition	3
LIBS 2280—Literature for Children.....	3
PSYC 1200—Human Development.....	3
PSYC 2300—Child Psychology	3
TOTAL	9

General electives selected in consultation with advisor (these are not part of the specialization) Up to 12 hours

MINIMUM CREDITS FOR DEGREE = 64

Secondary Education

This specialization allows students to prepare for a career as an educator, teaching classes from the 7th through 12th grades. Since teachers must obtain state certification after graduation with the bachelor's degree, it is important for those specializing in education to work closely with their advisors. Planning for transfer to a university involves selecting general education courses which will meet education program requirements and state certification regulations. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program will need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. Students should consult with their advisor and the appropriate four-year college catalog.

To become certified, all those interested in specializing in secondary education must complete course work in their teaching area, i.e., the subjects they plan to teach. At Northwest College, these students are assigned an advisor in their teaching area who will assist them in selecting appropriate courses. Consult a catalog from the transfer college, as well as your advisor, when selecting courses. Most universities require students to complete 15 to 30 credit hours in their teaching area, in addition to the education specialization, in order to be admitted as juniors to sec-

ondary education programs. At Northwest College, students may complete teaching area courses in the following subjects: Agriculture, Art, Biology, Business, Chemistry, English, English/Communications, English/Journalism, History, Mathematics, Modern Languages-French, Modern Languages-Spanish, Music, Physical Education, Science, and Social Studies.

Those in secondary education are, in fact, specializing in two areas. In order to transfer to a four-year college as a junior, students must complete both the education program specialization and extensive course work in the subjects they plan to teach. Consult your advisor every semester.

ASSOCIATE OF ARTS or ASSOCIATE OF SCIENCE with specialization in SECONDARY EDUCATION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	
..... 36-42 (AA degree)	
..... 31-37 (AS degree)	

Four hours of Social Science may be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
EDFD 2020—Foundations of Education	3
EDFD 2100—Educational Psychology	3
EDUC 2100—Public School Practicum: Observation and Participation 3-6 credits (3 credit minimum required) (Capstone Course).....	3-6
PSYC 1000—General Psychology	4
TOTAL	10-13

Core Electives

Students must take one of the following courses.

Number and Title	Credits
EDEX 2320—Introduction to Teaching Special Learners	3
PSYC 1200—Human Development.....	3

General electives selected in consultation with advisor 6-24

Geography

Geography examines the relationships that develop between humans and their environments in both physical and cultural contexts. Through investigating topical issues and utilizing resources of many other disciplines, students will learn

to understand and appreciate the complexities of this significant area of study. Geography courses are recommended for students interested in social science and especially for those interested in education.

History

The function of history courses is not merely to train professional historians, but also to explain the past for our time. It is the habit of history that gives us a deeper insight into our humanity by looking at the alternatives provided by others.

This specialization permits students to focus on history as a course of study for their associate of arts degree. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

SOCIAL SCIENCE EDUCATION

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school history teachers are encouraged to complete both the Secondary Education specialization and a specialization in the subjects they plan to teach. Consult your advisor every semester when selecting courses.

ASSOCIATE OF ARTS with specialization in HISTORY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Three hours of Humanities and three hours of Social Science will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
HIST 1110—Western Civilization I.....	3
HIST 1120—Western Civilization II.....	3

HIST 1210—United States History I.....	3
HIST 1221—United States From 1865.....	3
SOSC 2485—Seminar in Social Science Research or other Capstone Course (in consultation with advisor).....	3
TOTAL	15

Core Electives

Students must complete six credits from the following list of approved courses.

Number and Title	Credits
HIST 1229—History of Yellowstone	3
HIST 1250—History of Wyoming	3
HIST 1280—History of Montana	3
HIST 1290—History of The United States West.....	3
HIST 2050—Introduction to Public History..	3
HIST 2070—The Holocaust: A Survey	3
HIST 2112—Revolutionary Europe.....	3
HIST 2115—20th Century Europe	3
HIST 2120—Ancient Greece.....	3
HIST 2130—Ancient Rome.....	3
HIST 2140—Ancient Near East	3
HIST 2149—Nuclear Century	3
HIST 2290—North American Indians	3
HIST 2420—History of Crime and Justice....	3

General electives selected in consultation with advisor..... 23-25

Library and Information Science

Programs in library and information science are offered at four-year colleges and at universities either as an undergraduate minor field (to fulfill state certification requirements for school librarians) or as a graduate degree. Students may prepare for either of the above options by following a suggested course of study in any subject area leading to an associate of arts or associate of science degree. Some course work in computer science/microcomputers is recommended. Completion of the course work necessary for a school library minor or as a prerequisite to a graduate program in library and information science is usually accomplished in the junior and senior years of undergraduate study.

Political Science

Political Science is the study of the formal and informal institutions and process by which people seek to regulate themselves in a civil society.

The political science program is designed to offer any student an introduction to the American political process and to prepare students for transfer to four-year institutions.

This specialization would permit students to receive an associate of arts in political science. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Students interested in international politics should study a foreign language.

ASSOCIATE OF ARTS with specialization in POLITICAL SCIENCE

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Six hours of Social Science will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
POLS 1000—American and Wyoming Government.....	3
Capstone Course (in consultation with advisor).....	3
TOTAL	6

Core Electives

Students must complete nine credits from the following list of approved courses.

Number and Title	Credits
POLS 2000—Current Issues in American Government.....	3
POLS 2010—Comparative Government.....	3
POLS 2120/CRMJ 2120—Introduction to Criminal Justice.....	3
POLS 2210/CRMJ 2210—Criminal Law	3
POLS 2310—Introduction to International Relations.....	3
POLS 2410—Introduction to Public Administration.....	3
POLS 2460—Introduction to Political Theory	3
TOTAL	9

General electives selected in consultation with advisor..... 10-22

MINIMUM CREDITS FOR DEGREE = 64

Pre-Law

Most U.S. law colleges and universities require a bachelor of arts degree or a bachelor of science degree for admission. While few specify a particular pre-law curriculum, most emphasize competencies in 1) reading comprehension and verbal and written forms of expression, 2) critical understanding of human institutions and values, and 3) creative power of thinking. Northwest College provides a solid foundation in many of the key subject areas and helps students develop the skills necessary for a successful career in law.

Psychology

Psychology deals with individual human development. Study in psychology gives insight into our behavior and the behavior of others and prepares one for a variety of human services careers. It also provides part of the training needed for a variety of careers requiring an ability to work with other people.

This specialization would allow students to specialize in psychology while working on an associate of arts degree. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF ARTS with specialization in PSYCHOLOGY

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-42

Six hours of Social Science will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
PSYC 1000 General Psychology	4
PSYC 2000 Research Psychological Methods (Capstone Course).....	4
TOTAL 8	

Core Electives

Students must complete nine credits from the following list of approved courses.

Number and Title	Credits
PSYC 1200—Human Development.....	3
or	
PSYC 2300—Child Psychology	3
PSYC 2080 Biological Psychology	3
PSYC 2200—Human Sexuality	3
PSYC 2330—Psychology of Adjustment	3
PSYC 2380—Social Psychology	3
TOTAL 9	

General electives selected in consultation with advisor 11-17

MINIMUM CREDITS FOR DEGREE = 64

Religious Studies

Religious Studies is the interdisciplinary study of the subject of religion. Courses are available in Anthropology, English, Philosophy, Humanities, Ancient Languages, and History. The purpose of religious studies is intellectual and is not intended to teach any particular religious faith. It is the study of religion from comparative, cultural, and historical perspectives.

Religious Studies includes three tracks. Students may choose to focus on Anthropology and Linguistics studies or Humanities and Philosophy studies or Historical approaches. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

ASSOCIATE OF ARTS with specialization in RELIGIOUS STUDIES

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-39

Core Courses*

Number and Title	Credits
ANTH 2350—Biblical Archaeology	3
or	

ENGL 2170—The Bible as Literature	3
PHIL 2311—Philosophy of Religion.....	3
or	
ENGL 2280—Introduction to Mythology	3
Students must complete a capstone course of 1-3 credits. Recommended course is	
SOSC 2395—Seminar in Social Science Research (Capstone Course)	3
or	
HUMN 2440—Dialogues in the Humanities (Capstone Course).....	3
TOTAL 10-12	

* Courses not chosen above may be used as electives below.

Core Electives

Students must complete four courses (12-16 credits) from the following list of approved courses taking at least one course from each track.

Track I — Anthropology and Linguistics

Number and Title	Credits
ANTH 2200—World Ethnography:.....	3
ANTH 2310—Archaeological Field Methods.....	1-6
ANTH 2350—Biblical Archaeology	3
GRK 1015—Elementary Biblical Greek I.....	4
GRK 1025—Elementary Biblical Greek II.....	4
GRK 2035—Intermediate Biblical Greek.....	4
GRK 2150—Selected Readings in Biblical Greek.....	1
HEBR 1010—First Year Hebrew I.....	4
HEBR 1020—First Year Hebrew II	4
HEBR 2030—Second Year Hebrew.....	4
HEBR 2150—Selected Readings in Hebrew. I	

Track II — Humanities and Philosophy

Number and Title	Credits
ENGL 2170—The Bible as Literature	3
ENGL 2280—Introduction to Mythology	3
ENGL 2400/HUMN 2030—Introduction to Folklore	3
ENGL 2410—Literary Genres:	3
HUMN 2420—Introduction to Cross-Cultural Studies.....	3
HUMN 2440—Dialogues in the Humanities. 3	
PHIL 1000—Introduction to Philosophy	3
PHIL 2200—Social and Political Philosophy	3
PHIL 2311—Philosophy of Religion.....	3

Track III — Historical Approaches

Number and Title	Credits
HIST 1110—Western Civilization I.....	3
HIST 1120—Western Civilization II	3
HIST 2120—Ancient Greece.....	3
HIST 2130—Ancient Rome.....	3
HIST 2140—Ancient Near East	3

TOTAL 12-16

General electives selected in consultation with advisor..... 0-7

MINIMUM CREDITS FOR DEGREE = 64

Social Science

A two-year specialization in social science allows students to explore a variety of disciplines. It is a broad-based exploration of Anthropology, Archaeology, Economics, Geography, History, Political Science/Criminal Justice, and/or Psychology or Sociology. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**ASSOCIATE OF ARTS
with specialization in
SOCIAL SCIENCE**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Six hours of Social Science will be fulfilled by taking Core Electives.

Core Electives

A minimum of 18 credit hours is required for the Social Sciences specialization. The credit hours must be selected from courses found in at least (4) four of the subject areas listed: Anthropology, Archaeology, Economics, Geography, History, Political Science/Criminal Justice, Psychology or Sociology. Six credits must be 2000 level and be from the four areas already chosen. Credits used to satisfy a general education requirement that have any of the above designators may be used to satisfy the requirements for this specialization. Students are also required to take a Capstone Course selected in consultation with their advisor.

TOTAL 21

General electives selected in consultation with advisor 10-22

MINIMUM CREDITS FOR DEGREE = 64

Social Work

Those engaged in social work seek to apply the knowledge and insights of such fields as psychology and sociology to the identification, prevention and treatment of personal and social problems. Students who wish to pursue a degree in social work should follow the suggested program of study for sociology, in consultation with an advisor.

Sociology

Sociology seeks to understand the social and cultural dimensions of life and to explain human behavior. Sociology contributes to a better informed citizenry, qualifies students for a variety of occupations, and provides excellent preparation for advanced studies in law, medicine, theology, social work, business, criminal justice, and other fields.

This specialization allows students to focus on Sociology for their associate of arts degree. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

**ASSOCIATE OF ARTS
with specialization in
SOCIOLOGY**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Six hours of Social Science will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
SOC 1000—Sociological Principles	3
SOC 1100—Social Problems	3
SOSC 2485 or other Capstone Course (in consultation with advisor)	3
TOTAL 9	

Core Electives

Students must complete six credits from the following list of approved courses.

Number and Title	Credits
SOC 1005—Risky Behaviors.....	3
SOC 1200—Introduction to Social Work	3
SOC 2325—Marriage and Family	3
SOC 2340—Relationship Violence.....	3
SOC 2400/CRMJ 2400—Criminology	3
SOC 2420—History of Crime and Justice	3
SOC 2490—Topics Courses in Sociology	3
TOTAL 6	

General electives selected in consultation with advisor 13-19

MINIMUM CREDITS FOR DEGREE = 64

Faculty

M. Masterson, Chairperson
 R. Bedford, M. Bibbey, J. Champlin,
 J. Giarrizzo, N. Hansen, J. Kliewer,
 R. Rumbolz, R. Tafoya, L. Thorpe

Throughout history all cultures have produced art in one form or another. Representing our society in sight and sound, the visual and performing arts enhance our lives in times when making a living tends to overshadow living.

In keeping with the philosophy of Northwest College, the Visual and Performing Arts Division contributes to general cultural enrichment by promoting an awareness and understanding of the arts. The division offers course work in art, graphic design, music, and music technology, and provides public programs in the visual and performing arts to the college and community.

In cooperation with the Communication Division, Art and Graphic Design students take courses in Graphic Arts and Printing while Photography and Graphic Arts students take foundational Art and Graphic Design courses.

Throughout the year, the art department exhibits works by students, faculty, and visiting exhibitors in the Northwest Gallery and other campus exhibit spaces. The music department also produces concerts and recitals by students, faculty, and community musicians as well as by guest artists.

Individuals wishing to prepare for transfer to a senior institution should pursue the AA or AS in general or AA in liberal studies.

Associate of Arts Degree with specialization in

Art
 Graphics – Design
 Music

Associate of Science Degree with specialization in

Music

Associate of Applied Science Degree

Graphics – Prepress Production

Graphics – Printing Production
 Graphics – Design
 Music
 Music Technology

Northwest College Skills Certificate Option

Web Design and Application

Art and Graphic Design

These specializations will develop students' visual perspectives and creativity, help them to gain confidence in themselves and in their work, and increase their awareness of aesthetics and art. The core provides students the basic course work in the field while allowing them the flexibility to tailor their program to their individual needs. Students must successfully complete core courses with a "C-" or better to meet specialization requirements. Students who are planning to transfer to a four-year program may need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog.

Art

The Northwest College art department offers a sequence of fundamental courses and electives designed to build strong foundations for work in the two-dimensional, three-dimensional, and graphic design areas. Upon completion of these foundation courses, along with the general college requirements for graduation, a student may transfer to a four-year college or university, or seek employment with the confidence that comes from sound preparation.

Although the foundation courses are planned with the art specialization in mind, any student interested in expanding the understanding and enjoyment of art may enroll.

ASSOCIATE OF ARTS with specialization in ART

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42

Six hours of Visual & Performing Arts will be fulfilled by taking Core Courses.

Core Courses

Number and Title	Credits
ART 1050—Drawing I.....	3
ART 1110—Design: 2-D	3
ART 2410—Ceramics I:	3
or	
ART 2420—Ceramics II	3
ART 1130—Design: Color	3
ART 2010—Art History I	3
or	
ART 2020—Art History II	3
Capstone Courses:	
ART 2465—Art Portfolio (Capstone Course) .2	
or	
ART 2479—Special Projects (Capstone Course).....	3
TOTAL 20-21	

Transfer and General Electives selected in consultation with advisor 7-14

Recommended Transfer and General Electives

It is very strongly recommended that students intending to seek a four-year degree in Art take at least three courses from the following list.

Number and Title	Credits
ART 1060—Drawing II	3
ART 1250—Beginning Water-Based Media I 3	
ART 2050—Life Drawing I.....	3
ART 2060—Life Drawing II.....	3
ART 2090—Printmaking I.....	3
ART 2092—Printmaking II: Serigraphy I.....	3
ART 2210—Painting I	3
ART 2220—Painting II.....	3
ART 2420—Ceramics II:	3
ART 2479—Special Projects (Capstone Course).....	3

MINIMUM CREDITS FOR DEGREE = 64

Art Education

For secondary education, to facilitate transfer to a four-year college as a junior, students planning to become middle school or high school art teachers are encouraged to complete both the Secondary Education specialization and at least a specialization in the subjects they plan to teach. Consult your advisor every semester when selecting courses.

Graphics

The graphics program at Northwest College has been developed to provide students with career preparation in the related fields of design, prepress, and printing. The program offers three specializations united by a common core of classes. Required courses beyond the core curriculum are designed to help students focus their education toward developing individual strengths and interests. The Associate of Applied Science degree prepares students for entry-level positions in the graphic arts industry. The Associate of Arts is a transfer-oriented degree designed for students intending to continue at a four-year institution.

Core Courses

Number and Title	Credits
GRAR 1800—Introduction to Macintosh (or successful waiver exam).....	3
GRAR 1510—Introduction to Graphic Arts ..	3
GRAR 1810—Electronic Publishing: Page Maker	3
or	
GRAR 1820—Electronic Publishing: QuarkXPress	3
ART 1110—Design: 2-D	3
ART 2100—Computer Graphics I	3
TOTAL	15

ASSOCIATE OF ARTS with specialization in GRAPHIC DESIGN

Graphic design involves the study of communications through image and type. Its purpose is to persuade, promote, or inform a selected audience as the result of a carefully orchestrated visual message. Our core and recommended courses provide the student pursuing either of two degree choices with an introduction to basic design principles, visual communication theory, an overview of the graphic design industry, and a survey of graphic design history. They also provide a basic knowledge in the related fields of print and prepress production, computer graphics, photography, and advertising. Students gain an understanding of the use of design principles and become familiar with their use and effectiveness throughout the various graphics applications.

Degree options: Associate of Arts, Associate of Applied Science

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	36-42
Graphics Course Core	15
<i>Six hours of Visual and Performing Arts are fulfilled by Core Courses.</i>	

Core Courses

Number and Title	Credits
ART 1130—Design: Color	3
ART 2120—Graphic Design I	3
ART 2130—Graphics Design II.....	3
GRAR 2750—Magazine Editing and Management-(Capstone Course)	3
or	
ART 2479—Special Projects (Capstone Course)	3
or	
ART 2465—Art Portfolio (Capstone Course)	2

Transfer and General Electives

It is strongly recommended that graphic design students take at least two courses (6 credit) from the following list of electives.

Number and Title	Credits
ART 1050—Drawing I.....	3
ART 2010—Art History I	3
or	
ART 2020—Art History II	3
ART 2110—Typography	3
ART 2165—Issues in Web Design	3
GRAR 1720—Imaging for Printing Reproduction	3
JOUR 1000—Introduction to Mass Media ...	3
PHTO 1610—Introduction to Photography ...	3
PHTO 2650—Digital Imaging I.....	3
PHTO 2660—Web Page Design	3
PHTO 2760—Introduction to Digital Multimedia	3

MINIMUM CREDITS FOR DEGREE = 64

ASSOCIATE OF APPLIED SCIENCE GRAPHICS DESIGN OPTION

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23
Graphics Course Core	15
<i>Three hours of General Education may be fulfilled by taking Core Courses.</i>	

Number and Title	Credits
ART 1130—Design: Color	3
ART 1050—Drawing I.....	3
ART 2010—Art History I	3
or	
ART 2020—Art History II	3
ART 2120—Graphic Design I	3
ART 2130—Graphic Design II	3

ART 2110—Typography.....	3
GRAR 1610—Offset Production I.....	3
GRAR 1720—Imaging for Printing Reproduction.....	3
PHTO 2650—Digital Imaging	3
PHTO 2660—Web Page Design	3
GRAR 2750—Magazine Editing and Management-(Capstone Course)	3
or	
ART 2479—Special Projects (Capstone Course)	3
or	
ART 2465—Art Portfolio (Capstone Course)	2
TOTAL	47-78

ASSOCIATE OF APPLIED SCIENCE GRAPHICS PREPRESS PRODUCTION OPTION

Graphic arts prepress production involves the overlooked but ever-so-important area of prepress. This is a profession that most often works between the graphic design and the printing departments. For more information refer to page 41.

ASSOCIATE OF APPLIED SCIENCE GRAPHICS PRINTING PRODUCTION OPTION

Graphic arts printing production is designed to prepare students to enter the graphic arts/printing profession as offset printing press operators. For more information, please refer to page 41.

NORTHWEST COLLEGE SKILLS CERTIFICATE WEB DESIGN AND APPLICATION

This certificate is designed for those students wishing to develop the skills necessary to design and manage a basic Web site.

Number and Title	Credits
ART/PHTO 2165—Issues in Web Design	3
CMAP 2585—Web Applications	3
JOUR 1020—Webcasting Practicum I.....	1-2
JOUR 2020—Webcasting Practicum II	1-2
PHTO 2650—Digital Imaging	3
PHTO 2660—Web Page Design I.....	3
TOTAL	14-16

Music

Musicians, whether performance, education, business, or technically oriented, need to have unique kinds of skills in addition to their general education examinations of life. The following cur-

ricular demands and outcomes are those found in most four-year college music departments and are recommended by the National Association of Schools of Music (NASM) accrediting body in their curricular guidelines for accredited colleges. Students must successfully complete core courses with a “C-” or better to meet specialization requirements. Students planning to transfer to a four-year program need to have additional hours beyond the specialization requirements at Northwest College in order to transfer in as a junior. These students should consult with their advisor and the appropriate four-year college catalog. The music specialization involves primarily the classroom-oriented core music classes offered regularly every year.

**ASSOCIATE OF ARTS
with specialization in
MUSIC**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30.....	36-42

Six hours of Visual and Performing Arts and six hours of Multi-Cultural Awareness will be fulfilled by taking Core Courses

Core Courses

Number and Title	Credits
MUSC 1030—Written Theory I	3
MUSC 1035—Aural Theory I	1
MUSC 1040—Written Theory II	3
MUSC 1045—Aural Theory II	1
MUSC 2030—Written Theory III.....	3
MUSC 2035—Aural Theory III.....	1
MUSC 2040—Written Theory IV	3
MUSC 2045—Aural Theory IV.....	1
MUSC 2050—Music History Survey I.....	3
MUSC 2055—Music History Survey II (Capstone Course).....	3
TOTAL 22	

Transfer and General Electives selected in consultation with advisor 6-12

**Recommended Transfer
and General Electives**

Piano proficiency is required at the end of a bachelor’s degree for music majors. The proficiency exam can be taken here but does not have to be passed as students do have two more years to work on the needed skills. Piano class or Applied Piano is taken until the proficiency exam is passed. Passing of the piano proficiency will be posted on the transcript. Our AA Music Specialty degree does not require a piano exam.

Number and Title	Credits
MUSC 1290—Class Piano I	1
or	
MUSC 1200—Piano I.....	1
MUSC 1295—Class Piano II	
or	
MUSC 1200—Piano I.....	1
MUSC 2290—Class Piano III.....	1
or	
MUSC 2200—Piano II.....	1
MUSC 2295—Class Piano IV	1
or	
MUSC 2200—Piano II.....	1
MUSC 2455—Convocation (4 semesters).....	0
MUSC—Music Ensemble (4 semesters)	4
MUSC—Applied Music (major instrument/ voice).....	8

Music education students should choose two of the following courses:

Number and Title	Credits
MUSC 1310—Public School Music: Brass I	1
MUSC 1325—Public School Music: Percussion Instruments	1
MUSC 1340—Public School Music: Voice I.....	1
MUSC 1350—Public School Music: Woodwinds I	1

Music Electives

MUSC 1000—Introduction to Music	3
MUSC 1057—Introduction to Jazz.....	3
MUSC 1415—Introduction to Music Technology	2
MUSC 1435—Audio Recording.....	3
MUSC 2010—American Popular Music	3
MUSC 2060—Jazz Improvisation I.....	1
MUSC 2065—Jazz Improvisation II	1
MUSC 2440—MIDI	3
MUSC 2435—Advanced Audio Recording (Capstone Course).....	3

MINIMUM CREDITS FOR DEGREE = 64

**ASSOCIATE OF SCIENCE
with Specialization in
MUSIC**

The Associate of Science degree fits between the AA and the AAS degrees. It features music courses from the AA specialization but also brings in music technical and technology courses. This degree’s courses will transfer, but students may have to take more general education courses at a four-year college.

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	31-37

Three hours of Visual and Performing Arts will be fulfilled with Core Courses

Core Courses

MUSC 1030—Written Theory I	3
MUSC 1035—Aural Theory I	1
MUSC 1040—Written Theory II.....	3
MUSC 1045—Aural Theory II	1
MUSC 2030—Written Theory III.....	3
MUSC 2035—Aural Theory III.....	1
MUSC 2040—Written Theory IV	3
MUSC 2045—Aural Theory IV.....	1
MUSC 2050—Music History Survey I.....	3
MUSC 2055—Music History Survey II (Capstone Course).....	3
TOTAL 22	

Transfer and General Electives selected in consultation with advisor 15-18

**Recommended Transfer
and General Electives**

MUSC 1290—Class Piano I	1
or	
MUSC 1200—Piano I.....	2
MUSC 1295—Class Piano II.....	1
or	
MUSC 1200—Piano I.....	2
MUSC 2290—Class Piano III.....	1
or	
MUSC 2200—Piano II.....	2
MUSC 2295—Class Piano IV	1
or	
MUSC 2200—Piano II.....	2
MUSC 2455—Convocation (4 semesters).....	0
MUSC—Music Ensemble (4 semesters)	4
MUSC—Applied music (major instrument/ voice).....	8

Music Electives

MUSC 1057—Introduction to Jazz.....	3
MUSC 1415—Introduction to Music Technology	2
MUSC 1435—Audio Recording.....	3
MUSC 2010—American Popular Music	3
MUSC 2060—Jazz Improvisation I.....	1
MUSC 2065—Jazz Improvisation II	1
MUSC 2435—Advanced Audio Recording (Capstone Course).....	3
MUSC 2440—MIDI	3

MINIMUM CREDITS FOR DEGREE = 64

**ASSOCIATE OF APPLIED SCIENCE
MUSIC**

General Education Requirements

Number and Title	Credits
POLS 1000—American and Wyoming Government.....	3
or	
HIST 1221—United States from 1865.....	3
or	
HIST 1210—United States History I.....	3
and	
HIST 1250—History of Wyoming.....	3
ENGL—English Requirement	6
MATH—Any College-Level Mathematics	3
or	
BADM 1005—Business Mathematics.....	3

Humanities/Lab Science/Social Science.....	6
Wellness Education	2

TOTAL 20-23

Core Courses

Number and Title	Credits
MUSC 1030—Written Theory I.....	3
MUSC 1035—Aural Theory I	1
MUSC 1040—Written Theory II.....	3
MUSC 1045—Aural Theory II.....	1
MUSC 1290/1295—Class Piano I/II	2
MUSC 1415—Introduction to Music Technology	2
MUSC 1435—Audio Recording.....	3
MUSC 2030—Written Theory III.....	3
MUSC 2035—Aural Theory III.....	1
MUSC 2040—Written Theory IV	3
MUSC 2045—Aural Theory IV.....	1
MUSC 2050—Music History Survey I.....	3
MUSC 2055—Music History Survey II (Capstone Course).....	3
MUSC 2290/2295—Class Piano III/IV	2
MUSC 2455—Convocation (4 semesters).....	0
MUSC—Music Ensemble (4 semesters)	4
MUSC—Applied Music (major instrument/ voice).....	8

TOTAL 42

Recommended Electives

Number and Title	Credits
BADM 1000—Introduction to Business.....	3
MUSC 1057—Introduction to Jazz.....	3
MUSC 1310—Public School Music: Brass ...	1
MUSC 1350—Public School Music: Woodwind	1
MUSC 1325—Public School Music: Percussion	1
MUSC 1270/2270—Voice	1
MUSC 2010—American Popular Music	3

TOTAL CREDITS FOR DEGREE = 64

Music Technology

The Associate of Applied Science degree in music technology prepares students for technical, technological, and business work in the music industry. Meant to be a terminal degree, the AAS will help students learn musical work skills necessary in modern times.

**ASSOCIATE OF APPLIED SCIENCE
MUSIC TECHNOLOGY**

General Education Requirements

Number and Title	Credits
Students should refer to the Graduation Requirements on pages 26-30	20-23

Core Courses

Number and Title	Credits
ART 1110—Design 2D.....	3
or	
ART 2100—Computer Graphics.....	3
GRAR 1800—Introduction to Macintosh.....	3
MUSC 1030—Written Theory I	3
MUSC 1035—Aural Theory I	1
MUSC 1040—Written Theory II.....	3
MUSC 1045—Aural Theory II	1
MUSC 1290—Class Piano I	1
or	
MUSC 1200—Piano I.....	2
MUSC 1295—Class Piano II.....	1
or	
MUSC 1200—Piano I.....	2
MUSC 1415—Introduction to Music Technology	2
MUSC 1435—Audio Recording.....	3
MUSC 2435—Advanced Audio Recording (Capstone Course).....	3
MUSC 2440—MIDI	3
MUSC 2455—Convocation (2 semesters).....	0
MUSC—Music Ensemble (2 semesters)	2
MUSC—Applied Music (major instrument/ voice) (2 semesters).....	4

TOTAL 35

Electives selected in consultation with
advisor..... 9

Electives

Multimedia Production	
ART/PHTO 2165—Issues in Web Design	3
JOUR 1020—Webcasting Practicum	1-2
PHTO 2650—Digital Imaging	3
PHTO 2660—Web Design.....	3
PHTO 2760—Introduction to Digital Multimedia	3

Recording Technology	
MUSC 1000—Introduction to Music	3
MUSC 1057—Introduction to Jazz.....	3
MUSC 2010—American Popular Music	3
MUSC 2050—Music History Survey I.....	3
MUSC 2055—Music History Survey II	3

Electronic Composition	
MUSC 2030—Written Theory III.....	3
MUSC 2035—Aural Theory III.....	1
MUSC 2040—Written Theory IV	3
MUSC 2045—Aural Theory IV	1
MUSC 2060—Jazz Improvisation I.....	1
MUSC 2065—Jazz Improvisation II	1
MUSC 2290—Class Piano III.....	1
or	
MUSC 2200—Piano II.....	2
MUSC 2295—Class Piano IV	1
or	
MUSC 2200—Piano II.....	2

TOTAL CREDITS FOR DEGREE 64

Interpreting Course Descriptions

The courses listed in this catalog are an indication of what may be offered within any given semester. The College reserves the right to make additions or deletions to the list of offerings during the year and to withdraw courses for which adequate enrollment cannot be maintained. Students should consult the official list of courses offered each semester published in the Semester Class Schedule.

Undergraduate Course Prerequisites

Courses beyond the freshman year usually have "prerequisites." This means that certain lower-level courses must be taken before the student may register for the advanced course.

The prerequisite for undergraduate courses may be "consent of instructor." The student must secure the consent of the instructor of the course before registering for it. Consent of instructor is usually required for courses in which there is limited laboratory space or equipment, or in which specific skills are required.

Unless otherwise specified, prerequisite courses must be completed with a grade of "C-" or better. In some cases, students must demonstrate competency at a specific placement level on placement examination(s).

Numbering of Courses

Courses numbered 1000 to 1999 are introductory courses suitable for freshman students. Courses from 2000 to 2999 are primarily intended for sophomore students.

Courses numbered under 1000 may or may not be transferable to other colleges or universities. They *do not meet degree requirements* at Northwest College.

Subject Area Designators

The three (3) or four (4) letters preceding the course number indicate the subject area the course is in. Course descriptions are arranged alphabetically by the following designators:

Agriculture	AGRI
Agriculture Economics	AGEC
Agroecology	AECL
Animal Science	ANSC
Crop Science	CROP
Entomology	ENTO
Food Science	FDSC
Horticulture	HORT
Range Management	RGMG
American Studies	AMST
Anthropology	ANTH
Art	ART
Astronomy	ASTR
Aviation	AVTN
Biology	BIOL
Botany	BOT
Business	BUSN
Accounting	ACCT
Business Administration	BADM
Business Office Technology	BOTK
Finance	FIN
Management	MGT
Management Information Systems	BMIS
Marketing	MKT
Statistics	STAT
Chemistry	CHEM
CISCO Academy Codes	CSCO
Communication and Mass Media	CO/M
Computer Applications	CMAP
Computer Science	COSC
Criminal Justice	CRMJ
Developmental Studies	DVST
Economics	ECON
Education	EDUC
Curriculum & Instruction	EDCI
Early Childhood	EDEC
Educational Foundations	EDFD
Exceptional Children	EDEX
Library Science	LIBS
Electrical Apprenticeship	ELAP
Emergency Medical Technology	EMT
Engineering Science	ES
Engineering Technology	ENTK
English	ENGL
Equine Studies	EQST
Family and Consumer Science	FCSC
Geography and Recreation	G&R
Geology	GEOL
Graphic Arts	GRAR
History	HIST
Human Development	HMDV
Humanities	HUMN
Information Management	IMGT
Journalism	JOUR
Kinesiology	KIN
Languages	
French	FREN
Greek	GRK
Hebrew	HEBR
Spanish	SPAN
Mathematics	MATH
Statistics	STAT
Molecular Biology	MOLB
Music	MUSC
Nursing Studies	NRST
Outdoor Education	
Activity	OEAC
Professional	OEPR
Philosophy	PHIL
Photographic Communications	PHTO
Physical & Health Education	HLED
PE Activities & Dance	PEAC
Varsity Athletics	PEAT
Professional PE	PEPR
Physics	PHYS
Political Science	POLS
Psychology	PSYC
Quick Start	QSCS
Social Science	SOSC
Sociology	SOC
Theatre	THEA
Welding Technology	WELD
Zoology	ZOO

Special Course Numbers

The following courses may be offered in transfer or vocational fields

1460 or 2460 (transfer); 1960 or 2960 (vocational):

Field Studies (1-4)

A combination of classroom instruction with participation in the actual field being studied.

1465 or 2465 (transfer); 1965 or 2965 (vocational):

Directed Studies/Research Problems (1-3)

Special projects and research carried out under the direction of faculty.

1470 or 2470 (transfer); 1970 or 2970 (vocational):

*** Internship/Practicum (1-6)**

Work experience related to a chosen field of study. (approximately 30 hrs work experience equates to 1 credit hour)

1475 or 2475 (transfer); 1975 or 2975 (vocational):

[0975 (below college-level)]

*** Independent Studies (1-4)**

A course designed and taken under a special contract with a faculty member.

1480 or 2480 (transfer); 1980 or 2980 (vocational):

*** Cooperative Education (1-6)**

A planned academic program allowing students to blend classroom theory with related work experience. *Prerequisite: Consent of Cooperative Education Director and approval of appropriate faculty member.*

(6.5 hours lecture per student, 70 hours work experience equates to 1 credit hour)

1485 or 2485 (transfer); 1985 or 2985 (vocational):

Seminar (1-3)

In-depth examination of a specific issue or subject.

1490 or 2490 (transfer); 1990 or 2990 (vocational):

Topics (1-4)

Courses that are not part of the regular catalog curriculum. Designed to meet special needs or interests.

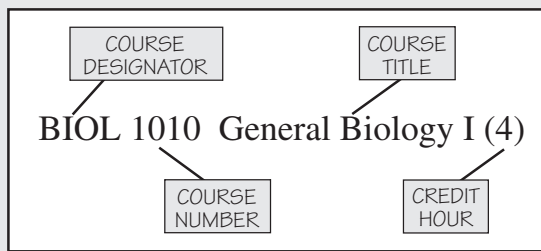
1495 or 2495 (transfer); 1995 or 2995 (vocational):

Workshop (1-3)

Specific training or instruction with the emphasis on skills development. Involves interactive participation among class members and instructors.

** A maximum of 12 hours of independent study, cooperative education, and internship credits may be used to fulfill requirements for AA, AS, or AAS degrees at Northwest College. Not more than 6 of these hours may be in any one of the 3 areas (exception for AAS in Travel and Tourism). These courses normally will count as elective credit.*

These descriptions of each course offered at Northwest College include the course designator, number, title, and credit hours (in parentheses) for the course. Course descriptions are followed by the number of hours spent in class lecture or labs. Some courses have prerequisites. A prerequisite is a specific requirement that must be fulfilled by the student before he/she will be allowed to enroll in that course.



ACCOUNTING (ACCT)

ACCT-1050 Practical Accounting (3)

Students acquire a basic understanding of accounting principles and procedures used to record, classify, summarize, and report financial data. Students also gain a foundation to perform accounting tasks as well as assist with making business decisions. Prior knowledge of accounting is not necessary. (3 hrs lec)

ACCT-2010 Principles of Accounting I (4)

Students learn the assumptions, principles, and conventions upon which a sound accounting system is based with an emphasis on formation and communication of financial information found on income statements, balance sheets, and statements of cash flow. Students consider use of financial information for decision making purposes and become conversant in the basic language of business. Emphasizes problem solving analysis both manually and on the computer. No prior knowledge of accounting is required. BMIS 2000 is recommended. (3 hrs lec, 2 hrs lab)

ACCT-2020 Principles of Accounting II (4)

A continuation of ACCT 2010. Students advance their accounting knowledge and skills with an emphasis on presentation and analysis of corporate financial statements; management accounting concepts and practices used in operations planning and control; and short-term and long-range management decision making. **Prerequisite:** ACCT 2010. (3 hrs lec, 2 hrs lab)

ACCT-2110 Microcomputer Accounting (2)

Introduces students to computerized integrated accounting software using individual modules for general ledger, accounts receivable, accounts payable, payroll, inventory, and job costs. Reinforces each module with practical applications. Course culminates with a comprehensive real world project. **Prerequisite:** ACCT 1050 or ACCT 2010 with a "C-" or better. (1 hr lec, 2 hrs lab)

ACCT-2410 Intermediate Accounting I (3)

Covers accounting principles pertaining to income determination and the balance sheet with underlying conceptual framework for development of generally accepted accounting principles. Topics include proper presentation of financial statements,

present value concepts, recognition, and measurement of assets, liabilities, and stockholder equity. (3 hrs lec, 1 hr lab)

AGROECOLOGY (AECL)

AECL-1000 Agroecology (4)

Students acquire introductory understanding of the interactions that affect agricultural systems. Comparisons are made between developed and developing countries. Students explore challenges and opportunities facing food production and our global society. (3 hrs lec, 2 hrs lab)

AECL-2010 Ecological Web: Soil (4)

Students develop introductory understanding of soil properties as components of natural and managed ecosystems. They apply knowledge of biological, chemical, morphological, and physical properties of soil to land management issues in wild land and agriculture ecosystems. (3 hrs lec, 2 hrs lab)

AECL-2020 Ecological Web: Agromic and Horticultural Plant Biology (4)

This course covers the importance of plant life to the agriculture community. It is an in-depth study of botany and plant physiology, providing a basis for understanding plant growth, reproduction, and response to environmental factors. Commercial crop production, marketing, land use planning, government programs, research achievements, and research needs are addressed. **Prerequisite:** BIOL 1010 and successful completion of at least 30 credit hours. (3 hrs lec, 2 hrs lab)

Capstone Course

AGRICULTURE ECONOMICS (AGEC)

AGEC-1010 Agricultural Economics I (3)

Introduction of basic economic principles and reasoning, emphasizing agriculture. (3 hrs lec)

AGEC-1020 Agricultural Economics II (3)

Students learn economic principles as they apply to agricultural production and marketing. Covers relation of agriculture to the general economy of the country. (3 hrs lec)

AGEC-2010 Farm and Ranch Business Records (3)

Explores fundamentals of farm and ranch business accounting, analysis, and budgets. Covers the development of effective decision-making methods using records, financial statements, and tax reporting. Includes case farm record-keeping exercise. (2 hrs lec, 2 hrs lab)

AGEC-2020 Farm and Ranch Business Management (4)

Students learn economic principles, business methods and science applied to organization and operation. Explores measurements of size of business and rate and efficiency of operations. **Prerequisite:** Successful completion of at least 30 credit hours. (3 hrs lec, 2 hrs lab)

Capstone Course

AGEC-2100 Advanced Computer Ag Records Management (2)

Students learn about advanced computerized financial records and analysis, computerized production records, and computerized crops production records. Students work within a self-paced format and select one of the three areas of concentration for study. Actual business records of the student are used and entered into the computer for more effective analysis and decision making. **Prerequisite:** AGECE 2010. (1 hr lec, 2 hrs lab)

AGEC-2300 Agricultural Marketing (3)

Covers the role of agricultural products in the national economy and trade; includes costs, margins, marketing alternatives, transportation, governmental influence, and competition. **Prerequisite:** ECON 1010, AGECE 1010, or equivalent. (3 hrs lec)

AGEC-2400 Farm Credit and Finance (2)

Covers various financial agencies available to the manager; responsibilities, liabilities, and rewards of using credit; interest calculations; discounting and investments. **Prerequisite:** AGECE 1010 or AGECE 2010. (2 hrs lec)

AGRICULTURE (AGRI)

AGRI-1010 Computers in Agriculture (3)

Designed to familiarize the student with computer applications related to agricultural situations. Provides the student opportunities to use computers to solve a variety of problems using an assortment of software programs. **Prerequisite:** Keyboarding skills recommended. (2 hrs lec, 2 hrs lab)

AGRI-2385 Agriculture Communication/Leadership (2)

Students will explore the occupation of agriculture communications through activities that will allow them hands-on experience. Students explore challenges and opportunities facing food production and our global society. Students will develop an appreciation for leadership training and communicating ideas to a community audience. **Prerequisite:** Consent of instructor and successful completion of 30 credit hours. (2 hrs lec)

AGRI-2390 Agriculture Literacy/Leadership (2)

Students acquire skills necessary for developing an

agriculture literacy program for the campus as well as the community. Students will assist the Agriculture Department in many tasks throughout the semester including such things as recruiting potential students and educating the community about the Agriculture Department at Northwest College. **Prerequisite:** Consent of instructor and successful completion of at least 30 credit hours. (2 hrs lec)

AMERICAN STUDIES

AMST-2010 Introduction to American Studies (3)
Introduces the interdisciplinary study of American culture. Focuses on themes, values, and ideas which historically have defined the cultural experience of the United States. Examines the cultural meanings of aspects of everyday American life that may include work, clothing, food, family, gender, buildings, bodies, media entertainment, advertising, and education. (3 hrs lec)

ANIMAL SCIENCE (ANSC)

ANSC-1022 Animal Science I (4)
Provides an overview of opportunities associated with the production of domestic animals for food, clothing, power, and recreation. Students become familiar with breeds and management of beef cattle, dairy cattle, sheep, swine, horses, and poultry. (3 hrs lec, 2 hrs lab)

ANSC-1024 Animal Science II (4)
Enables students to become familiar with the biological functions of farm-ranch animals. Analyzes products produced by farm-ranch animals. (3 hrs lec, 2 hrs lab)

ANSC-1100 Artificial Insemination (2)
Anatomy of the male and female reproductive system and the physiology of the endocrine and reproductive systems as they relate to a successful artificial insemination program. Labs cover actual practice and techniques in insemination, collecting, handling, storing, and evaluation of semen. (1 hr lec, 2 hrs lab)

ANSC-1210 Livestock Judging I (2)
Fall semester judging of all types of livestock. Emphasizes individual breed characteristics covering strong and weak points of each. (.5 hr lec, 3 hrs lab)

ANSC-1220 Livestock Judging II (2)
Spring semester judging of all types of livestock. Emphasizes individual breed characteristics covering strong and weak points of each. **Prerequisite:** ANSC 1210. (.5 hr lec, 3 hrs lab)

ANSC-1250 Field Experience: Livestock Exhibition (3)
Designed to give the student experience in exhibiting animals at open class fairs and in preparation of livestock for shows and sales. Class time includes duties and responsibilities of a herdsman in preparation, care, and exhibiting livestock. A practicum deals with actual showing experience. **Prerequisite:** ANSC 1022. (.5 hr lec, 5 hrs lab)

ANSC-2020 Feeds and Feeding (4)
Covers the importance of livestock nutrition, physiology of digestion, types of feeds, and determinations of rations for all classes of livestock. **Prerequisite:** CHEM 1000 recommended. (3 hrs lec, 2 hrs lab)

ANSC-2230 Livestock Judging III (2)
Fall semester competitive livestock judging. Selected students represent the college in local, regional, and national contests. Students participate in the fall semester. **Prerequisite:** ANSC 1220 and written consent of instructor. (1 hr lec, 2 hrs lab)

ANSC-2240 Livestock Judging IV (1)
Spring semester competitive livestock judging. Selected students represent the college in local, regional, and national contests. Students participate in the spring semester. **Prerequisite:** ANSC 2230 and written consent of instructor. (.5 hr lec, 1 hr lab)

ANSC-2320 Livestock Health & Management (2)
A basic review of the major diseases that affect bovine, ovine, and swine. A portion of the class covers specific anatomy affected by diseases, a review of appropriate pharmacology, and the development of a general herd health management program that agriculture producers can adapt to their own operation. (2 hrs lec)

ANSC-2430 Comparative Anatomy/Physiology Domestic Animals (4)
Covers comparative anatomy and the physiology of digestion, circulation, nervous system, reproduction and urinary systems, muscular and skeletal systems, and environment of farm animals. (3 hrs lec, 2 hrs lab)

ANSC-2550 Public Speaking for Livestock Judges (1)
Designed to improve speaking skills used in judging livestock. Subject matter includes organization, delivery, and speaking skills involved in providing oral critiques of different groups of livestock. (.5 hr lec, 1 hr lab)

ANTHROPOLOGY (ANTH)

ANTH-1100 Physical Anthropology (3)
Commonly referred to as Biological Anthropology, Physical Anthropology studies the biological basis of humankind. Addresses questions regarding human origins and human variation. Course seeks answers to these questions by analyzing evolutionary theory, cell biology, human genetics, race and human diversity, primate evolution, primate social behavior, and ecology and human origins. (3 hrs lec)

ANTH-1105 Physical Anthropology Lab (1)
Optional lab operates in conjunction with ANTH 1100. Lab is advised for those specializing in anthropology and transferring to schools having a four-credit anthropology course with lab. **Prerequisite:** Previous or concurrent enrollment in ANTH 1100. (2 hrs lab)

ANTH-1200 Introduction to Cultural Anthropology (3)
Provides a wide perspective for the understanding of humankind, language, food-getting strategies, social and economic systems, political organization, marital and family structure, religion, art, music, etc. Accomplished in part by the study and comparison of a variety of cultures. (3 hrs lec)

ANTH-1250 Archaeology of Wyoming (3)
An overview of the hunting and gathering lifeways and adaptations of past human groups in Wyoming including subsistence and settlement patterns, stone tool technologies and chronology, key sites, rock art, and historical archaeology. Also methodologies, law and ethics, and curation procedures. (3 hrs lec)

ANTH-1300 Introduction to Archaeology (3)
Introduces the theory and method of archaeological science, with an overview of cultural evolution in the Old World up to the development of early civilization. Includes a summary of Wyoming archaeology. (3 hrs lec)

ANTH-2200 World Ethnography: (3)
Provides an understanding of cultural behavior of peoples in various geographical areas of the world. Indicates the specific geographic area for each semester offered, such as Middle East, Africa, South America, South Pacific, Mediterranean, American Southwest. A student may take this course twice. (3 hrs lec)

ANTH-2210 North American Indian Cultures (3)
A survey of the origin and development of Native American cultures in North America, examining briefly each cultural zone or area. (3 hrs lec)

ANTH-2300 Archaeological Methods (3)
A study of the history and methods of archaeological excavation. Includes selection of sites, excavation techniques and technologies, and report writing. (2 hrs lec, 2 hrs lab)

ANTH-2310 Archaeological Field Methods (1-6)
Field experiences in archaeology in the United States or outside the United States. Field schools present instruction in mapping, stratigraphy, excavation techniques and technology, photography, record keeping, regional survey, artifact storage, and preservation. Some excavation sites located in Wyoming and in Israel. (2 hrs lab per credit hour)

ANTH-2350 Biblical Archaeology (3)
A study of the archaeological context of the Bible lands, relating Syro-Palestinian archaeology to the cultures of the ancient Mediterranean and Near East. (3 hrs lec)

ANTH-2470 Internship: Anthropology (1-6)
Available to the serious student who desires to observe and participate in a demanding and rewarding professional off-campus experience. (1-6 hrs lec per credit hour)

ART (ART)**ART-1010 Introduction to Art (3)**

Students undertake an introductory exploration of major art and artifacts of western civilization. Discussion addresses aesthetics, craft, and art from non-western cultures and the importance of art in society. Through hands-on art appreciation activities, students experiment with different media including drawing, sculpture, ceramics, and mixed media. Museum and gallery tours scheduled. Only for students not specializing in art. (3 hrs lec)

ART-1050 Drawing I (3)

An introduction to the vocabulary and skill of drawing for both the experienced and inexperienced student. Emphasis placed on mastering traditional drawing techniques, along with increasing the student's confidence in his or her skill and visual literacy. (2 hrs lec, 4 hrs lab)

ART-1060 Drawing II (3)

A continuation and expansion of ART 1050. Emphasis placed on continued development of strength in observational skills and visual thinking abilities. Stress placed on expanded approaches to drawing through incorporation of design concepts, exploration of a broad range of ideas, and experimentation with a variety of media. **Prerequisite:** ART 1050. (2 hrs lec, 4 hrs lab)

ART-1110 Design: 2-D (3)

A foundation course which introduces the student to the processes of visual perception and how these processes function as a basis for understanding and creating two-dimensional works. Requires no art background. (2 hrs lec, 4 hrs lab)

ART-1130 Design: Color (3)

An introduction to and an intensive exploration of the phenomena and operation of light/color. Investigation of the four properties of color, additive and subtractive color, color phenomena, color interaction, the spatial capabilities of color, color operations, and the graphic structures required for certain color operations; color systems including the Munsell System; color composition and some of the associative/psychological aspects of color through a series of structured exercises using acrylic paint/mixed media. (2 hrs lec, 4 hrs lab)

ART-1250 Beginning Water-Based Media I (3)

A basic course in transparent watercolor, which will concentrate on the understanding of color, various approaches to handling the watercolor medium, and observational studies emphasizing the shapes of light and dark. (2 hrs lec, 4 hrs lab)

ART-2010 Art History I (3)

An introduction to the major arts of the world with emphasis on painting, sculpture, and architecture. From prehistoric times to approximately 1500 A.D. (3 hrs lec)

ART-2020 Art History II (3)

An introduction to the major arts of the world with an emphasis on painting, sculpture, and architecture. This course covers the period from 1500 to the present. (3 hrs lec)

ART-2050 Life Drawing I (3)

A continuation of drawing courses, with emphasis on the human figure. Emphasizes physiology of the body through study of skeletal structure and muscular organization. **Prerequisite:** ART 1050. (2 hrs lec, 4 hrs lab)

ART-2055 Art in the Wild (3)

This is a weekend intensive seminar exploring "ways of seeing" by responding to and recording the landscape of the Greater Yellowstone Basin. Working on-site in a back-country setting, the course includes an on-campus introductory lecture and post-seminar final critique. Generally, this course will be taught in conjunction with "Writing in the Wild," a three-credit course offered by the English Department. Course fee will be charged to cover transportation, fees, and lodging. **Prerequisite:** ART 1050 or consent of instructor. (3 hrs lec)

ART-2060 Life Drawing II (3)

Continuation of ART 2050, with further study of the anatomical factor and emphasis on the expressive factor. **Prerequisite:** ART 2050. (2 hrs lec, 4 hrs lab)

ART-2090 Printmaking I (3)

Investigation and experimentation with processes and properties of print media, including intaglio, photo intaglio, relief, and monoprint employing safe, non-toxic methods. **Prerequisite:** ART 1050. (2 hrs lec, 4 hrs lab)

ART-2092 Printmaking II: Serigraphy I (3)

An introduction to block-out methods. Includes use of paper, toulouse, hand-cut and photographic films, and techniques used for printing on various substrates. Uses water-based inks and covers processes for gathering and preparing inks from plant materials and plant-based powdered pigments. Uses water-based commercial inks for fabric printing. (2 hrs lec, 4 hrs lab)

ART-2100 Computer Graphics I (3)

This course will emphasize proficiency in Adobe Illustrator and understanding the role of digital tools in the realm of design. Students will study design theory, image creation, and production issues. Students will construct complex illustrations and prepare them for export to graphics software, to the Web, and for offset printing. (2 hrs lec, 4 hrs lab)

ART-2105 Computer Graphics II (3)

A continuation of ART 2100 emphasizing more advanced graphic design programs on the computer. Includes applied problems in editorial, promotional, and layout graphics. **Prerequisite:** ART 1110, ART 2120, and ART 2100. (2 hrs lec, 2 hrs lab)

ART-2110 Typography (3)

The craft of typography is introduced, including terminology, type specification, copy fitting and kerning. Emphasis is placed on the development of a full understanding of typographic history, classification, characteristics, and use of type in the field of graphic design. Students learn to work with type intelligently and creatively. **Prerequisite:** GRAR 1810 or GRAR 1820. (2 hrs lec, 4 hrs lab)

ART-2120 Graphic Design I (3)

Introductory graphic design course encourages conceptual thinking and problem solving in relation to design development. Emphasis is placed on application of design principles, understanding and evaluating information, learning the value of research, and the appropriate materials, tools and techniques needed to show effective idea development. Students begin with techniques for rough conceptual sketches and progress through finished presentations of comprehensive layouts. Students will study design history, design theory and solve design problems using a combination of type, image, color, and format. **Prerequisite:** ART 1110. (2 hrs lec, 4 hrs lab)

ART-2125 Graphic Design History (3)

A survey of the history of graphic design. Covers major styles, movements, and artists. Explores graphic design within the context of changing technology, cultural mores, and the major fine art movements. (3 hrs lec)

ART-2130 Graphic Design II (3)

A continuation of ART 2120. Includes applied problems in editorial and promotional graphics, advertising, and editorial layout. **Prerequisite:** ART 2120 and previous or concurrent enrollment in ART 2125. (2 hrs lec, 4 hrs lab)

ART-2135 Fundamentals of Art for Teachers

(2) This course is designed for K-8 education candidates, currently certified teachers, or for students who want to explore an education methods class. This is a hands-on class which emphasizes the State and National Art Standard expectations for K-8 students. This course is the same as EDUC 2135. (2 hrs lec)

ART-2165 Issues in Web Design (3)

Lectures, research, and discourse in designing for the web. Topics include planning, design principles, site architecture, site design, web typography, editorial style and references, color and graphic formats, multimedia applications, data-driven graphics, publishing, publicizing, and maintaining a website. Homework will include designing a web site which illustrates these concepts. This course will benefit anyone who currently produces web pages, from the dabbler to the professional. This course is the same as PHTO 2165. (3 hrs lec)

ART-2210 Painting I (3)

A basic painting course using the oil medium. Stresses a thorough understanding of color, observation, and analysis of subject matter and design of the two-dimensional surface. Technical information on pigments, building supports, grounds, mediums, and basic painting techniques covered. **Prerequisite:** ART 1050 and ART 1110 or ART 1130. (2 hrs lec, 4 hrs lab)

ART-2220 Painting II (3)

A continuation of ART 2210. Further exploration of shape and color relationships and more concentrated consideration of the organization and structure of the two-dimensional surface. **Prerequisite:** ART 2210. (2 hrs lec, 4 hrs lab)

ART-2400 Advanced Studio (2-3)

A unique living and learning experience for students specializing in graphic design and studio art. Students develop and deliver after-school art programs for community elementary schools while also pursuing individual creative work in the studio. Students not residing in the Art House is eligible to participate in the after-school art teaching program for 2 credits. May be repeated once for credit. **Prerequisite:** ART 1050, ART 1110, or ART 2120. (2 hrs lec, 2-4 hrs lab)

ART-2410 Ceramics I (3)

An introductory course in hand building, glazing, and firing clay objects. Coil, slab, pinch, and wheel construction methods covered. Emphasis on forming methods and understanding design. (2 hrs lec, 4 hrs lab)

ART-2420 Ceramics II (3)

Advanced methods of clay construction, glazing, firing, and form analysis. Wheel throwing, glaze mixing, equipment construction, kiln stacking, and utility in form construction emphasized. (2 hrs lec, 4 hrs lab)

ART-2430 Advanced Ceramics (3)

Studies development of ceramic form involving work in hand building and wheel techniques. Introduces surface treatment and glaze testing. Emphasizes design and conceptual development. Includes historical research. **Prerequisite:** ART 2410 or ART 2420. (2 hrs lec, 4 hrs lab)

ART-2465 Art Portfolio (2)

Students learn about portfolios: how to plan and design them; how to display art work by reproducing it both graphically and photographically; how to organize and physically assemble; and finally, how to use them as an integral portion of their resume for interview. **Prerequisite:** Consent of instructor and successful completion of at least 30 credit hours. (2 hrs lec) *Capstone Course*

ART-2479 Special Projects: (3)

Students demonstrate advanced skills in applied projects. Emphasis is on research, collaboration, planning, making presentations, and incorporating professional feedback. Students will be required to turn in work logs or journals regarding the experience. This is an advanced class for design and art students who desire real-world application of their craft. **Prerequisite:** Student must complete application and interview with instructor for admission. Successful completion of at least 30 credit hours. (2 hrs lec, 4 hrs lab) *Capstone Course*

ASTRONOMY (ASTR)**ASTR-1002 Observational Astronomy (1)**

A hands-on observational course for education and enjoyment. Students compare telescopes, learn how to use different telescopes, and learn where to point them in the sky. Some constellation identification done to build a repertory of interesting objects to observe. Opportunity for astrophotography available for those who are interested. Some discussion of the celestial objects observed. (1 hr lec, 1 hr lab)

ASTR-1005 Introduction to Astronomy (4)

A description of the general principles, objects,

recent developments, theories, and speculation in astronomy, as well as the methods and equipment by which astronomy is studied. Observations of the sun, moon, planets, stars, groups of stars, and deep-sky objects made, conditions permitting. Some computer simulations included. **Prerequisite:** Placement at math level 2. (3 hrs lec, 2 hrs lab)

ASTR-1050 Survey of Astronomy (4)

An algebra-based course in observational and laboratory astronomy. Topics covered include light, gravity, optical instruments, frame of reference, the sun, planets, satellites, comets, stars, groups of stars, and cosmology. Experiments include spectroscopy, comparison of optical instruments, Kepler's Laws, and observations of as many different astronomical phenomena as possible, including planets, asteroids, comets, deep sky objects, and the sun in white and hydrogen-alpha light. No more than 4 hours credit can be earned in ASTR 1005 and ASTR 1050. **Prerequisite:** Placement at math level 3 or above. (3 hrs lec, 2 hrs lab)

AVIATION (AVTN)**AVTN-2500 Basic Aeronautics (3)**

A course in aerodynamics and theory of flight, aircraft structures and power plants, meteorology, dead reckoning and radio navigation, air traffic control, flight planning and safety, and FAA regulations. (3 hrs lec)

BUSINESS ADMINISTRATION (BADM)**BADM-1000 Introduction to Business (3)**

A general introduction to principal business activities and the functions of management in planning, operating, organizing, and controlling an enterprise. (3 hrs lec)

BADM-1005 Business Mathematics (3)

Course enables students to apply basic mathematic and problem-solving skills with selected business/consumer situations encountered in business and personal lives. Major topics include areas of banking, marketing, retailing, taxes, finance, insurance, and basic statistics. This course fulfills math requirement only for the AAS degree. **Prerequisite:** Completion of MATH 0900 or placement at math level 1 within one year prior to enrollment. (3 hrs lec)

BADM-1020 Business Communication (3)

Applies principles of written and spoken business communication in business environments through reviewing case studies; writing specific types of business letters, memos, and reports; and delivering oral presentations. **Prerequisite:** A grade of "C-" or better in ENGL 1010. (3 hrs lec)

BADM-1045 e-Commerce for Managers (3)

Students acquire a comprehensive overview of building and managing an e-Business and explore topics such as the decision to being an online business, choosing a business model, accepting payment, marketing strategies, and security issues. (3 hrs lec)

BADM-1050 Introduction to Travel and Tourism (3)

Introduction to the travel and tourism industry. Covers transportation, hospitality management, marketing, tour packaging, recreation, leisure studies, and other topics related to tourism and travel in the Rocky Mountain area. (3 hrs lec)

BADM-1060 Centralized Reservation System (2)

Provides an understanding of computerization common within travel and hospitality industries. Emphasizes microcomputer skills and develops familiarity with a commonly used travel software program. **Prerequisite:** CMAP 1800 or BMIS 2000. (1 hr lec, 2 hrs lab)

BADM-1400 Introduction to Hospitality (3)

An introduction to management of food, beverage, and lodging, with an emphasis on maximizing visitor satisfaction. **Prerequisite:** BADM 1000 or BADM 1050. (3 hrs lec)

BADM-1500 Students In Free Enterprise (1)

Provides a highly organized opportunity for hands-on learning and development as a business leader. Students organize themselves as a work team to plan and implement projects that promote business education, awareness, communication and networking. Leadership, teamwork and management skills are further developed by the opportunity to travel and compete at the regional and national competitions. **Prerequisite:** Member of SIFE and leadership skills. (.5 hr lec, 1 hr lab)

BADM-2010 Business Law (3)

Provides an overview of business-related legal topics including the legal environment of businesses, contracts, the Uniform Commercial Code, property rights, and social responsibility. (3 hrs lec)

BADM-2030 Business Ethics (3)

Students learn how business and society interact through the study of consumerism, technology, ethical and moral conviction. Introduces the concept of business ethics, an overview of major ethical issues that face business today, and discusses moral philosophy through an understanding of classical and contemporary ethical theories. (3 hrs lec)

BADM-2100 Small Business Practices (3)

Offers basic principles of marketing, production, operations, finance, accounting, and personnel required to operate any small business. Employs a problem-solving methodology within a case study orientation that integrates course material and requires students to apply knowledge to situational problems. **Prerequisite:** Completion of BADM 1005 or MATH 0930 or above. (3 hrs lec)

BADM-2395 Capstone in Business (1)

Students demonstrate their level of achievement by integrating the skills and knowledge they have developed throughout their course of study into a comprehensive report and presentation. The final project is a case study that requires students to integrate what they have learned in all aspects of their business study along with quantitative and communication skills. **Prerequisite:** Successful completion of at least 30 credit hours. (1 hr lec) *Capstone Course*

BADM-2970 Internship/Practicum Travel & Tourism: (1-6)

Seminars and experiences related to travel agencies, airlines, cruises, Yellowstone National Park, and AmFac Resorts, attractions, and visitor centers. This course will be a supervised on-site experiential learning course. **Prerequisite:** Successful completion of at least 30 credit hours. (2 hrs lec/lab per credit hour)

BIOLOGY (BIOL)**BIOL-1000 Principles of Biology (4)**

Students learn principles that are important for achieving sound scientific reasoning and methodology. Students study the following topics: cell biology, physiology, genetics, evolution, ecology, and the interactions of humans with their environment. All topics are considered within the context of the human experience. This course will fulfill the lab science general education requirement for students not specializing in the biological or physical sciences or health and physical education. (3 hrs lec, 2 hrs lab)

BIOL-1010 General Biology I (4)

Students study the following topics: ecology, evolution, genetics, the chemistry of life, cell structure and function, respiration, and photosynthesis. This introductory biology course is designed for students specializing in the biological or physical sciences or health and physical education. (3 hrs lec, 2 hrs lab)

BIOL-1080 Environmental Science (3)

Intended to attract students interested in the environment. Concerns conservation of natural resources. Course focuses upon modern environmental problems. (3 hrs lec)

BIOL-2020 General Biology II (4)

A phylogenetic survey of living organisms which includes the study of kingdoms animalia, plantae, protista, fungi, and monera. Emphasizes evolution of structure and function. **Prerequisite:** BIOL 1010. (3 hrs lec, 2 hrs lab)

BIOL-2200 Genetics (3)

A study of the principles of heredity. Includes basic Mendelian genetics, nature and function of genetic material, population genetics, and evolution. Emphasizes practical application to artificial selection in plant and animal breeding, as well as human genetics. **Prerequisite:** BIOL 1010. (3 hrs lec)

BIOL-2310 Introduction to Geographic Information Systems (3)

Students acquire an introductory-level understanding of the principles and practices of geographic information systems (GIS), both as an interactive spatial database and as a powerful analytical tool. Students learn the theory of mapping and spatial data analysis as well as learn to use GIS software through exercises and projects. (2 hrs lec, 2 hrs lab)

BIOL-2385 Research in the Life and Physical Sciences (3)

Research in the Life and Physical Sciences offers students the opportunity to work with other students interested in science disciplines. Students

will develop individual projects within their discipline, and with fellow students, exchange ideas, and develop an appreciation for the commonality between scientific disciplines and the role of science in society. Students will be expected to make a public presentation of their work. **Prerequisite:** Successful completion of at least 30 credit hours. (3 hrs lec) **Capstone Course**

BIOL-2395 Biological Research (1)

Students have the opportunity to design biological experiments and to organize, analyze, and interpret data. Students write a scientific paper and orally present their results to both peers and faculty. **Prerequisite:** BIOL 1010 and successful completion of at least 30 credit hours. (1 hr lec) **Capstone Course**

BIOL-2400 Ecology (3)

A study of ecosystems, energy flows, habitats, natural cycles, environmental influences, succession, population, and speciation. **Prerequisite:** One semester of biological science. (3 hrs lec)

BIOL-2410 Field Ecology Lab (1)

Gives students the opportunity to investigate natural communities and actively participate in study and analysis of water, soil, climate, and organisms associated with characteristic habitats. **Prerequisite:** BIOL 2400 or concurrent enrollment. (2 hrs lab)

BIOL-2465 Research Problems in Biology (1-3)

Introduces various methodologies employed in biologic research. Includes literature searches, data collection and analysis, and research report writing. **Prerequisite:** Consent of instructor. (2-6 hrs lab)

BUSINESS MANAGEMENT INFORMATION SYSTEMS (BMIS)**BMIS-2000 Computer Information Systems (3)**

Introduction to computer and information systems. Course content includes study of hardware, software, computer architecture, information processing, data communications, information management, and social issues in computing. Incorporates application experiences in operating system, word processing, spreadsheet, and database software. **Prerequisite:** Minimum of 25 wpm typing speed. (2 hrs lec, 2 hrs lab)

BOTANY (BOT)**BOT-2050 Taxonomy of Flowering Plants (4)**

Designed to give students an understanding of the principles and techniques of plant taxonomy and bio-systematics. Laboratories review the characteristics of major plant families and acquaint students with local flowering plants, methods of identifying them, and their distributions. **Prerequisite:** BIOL 1010. (3 hrs lec, 2 hrs lab)

BOT-2100 Forest Management (3)

An introduction to the principles and goals of forestry. Includes biology of trees and forest ecosystems, management objectives and methods, and commercial aspects of the forest industry. (3 hrs lec)

BUSINESS TECHNOLOGY (BOTK)**BOTK-1500 Ten-Key Mastery (1)**

Designed to develop data entry skills by touch on the microcomputer ten-key pad. Students develop speed and accuracy necessary for a variety of data entry situations. Useful for students in accounting and business technology programs. (.5 hr lec, 1 hr lab)

BOTK-1640 Keyboarding Applications I (2)

Designed for students with little or no prior keyboarding or word processing experience. Students become proficient in data entry by touch on the standard QWERTY keyboard of microcomputers, learn basic word processing commands, and apply these skills to produce basic documents for personal use, college course work, or on the job. Individually tailored, computerized instruction enables students at any level of keyboarding ability to increase their speed and accuracy. (1 hr lec, 2 hrs lab)

BOTK-1955 Professional Development (2)

Designed to help students develop the professional image and attitude needed for success in any career. Includes consideration of nutrition and health, dressing for success, interview skills, communication skills, presentation skills, business ethics and etiquette, stress and time management, and human relations. Ideal for students planning to work in public jobs such as banking, teaching, and all areas of business. (2 hrs lec)

BOTK-2510 Legal Terminology (1)

A study of definitions of legal terms and procedures, designed primarily for students wishing to become legal stenographers and secretaries. **Prerequisite:** BOTK 1640 or equivalent. (1 hr lec)

BOTK-2600 Medical Transcription (3)

Combines keyboarding, word processing, and machine transcription to transcribe realistic medical dictation. Emphasizes vocabulary and terms of the medical profession by using medical tapes and supplementary materials. **Prerequisite:** BOTK 1640 and NRST 1200. (2 hrs lec, 2 hrs lab)

BOTK-2620 Medical Coding (2)

An introduction to medical coding. Demonstrates to students interested in the medical secretary and medical records fields how to classify diseases and procedures from the three-volume Classification of Diseases books used by hospitals and the Current Procedural Terminology books used in doctors' offices. **Prerequisite:** NRST 1200. (2 hrs lec)

BOTK-2700 Shorthand: Speedwriting (3)

Using alphabetic and/or symbolic outlines, students develop the listening and psychomotor skills needed for taking notes for business and/or personal use. Presents theory and focuses on developing speed and accuracy in dictation and transcription. Language arts skills reviewed and stressed. **Prerequisite:** BOTK 1640. (2 hrs lec, 2 hrs lab)

BOTK-2750 Records and Information Management (1)

Designed to develop knowledge and application of alphabetic, numeric, geographic, and subject filing rules; the life cycle of records; and manual and electronic records management. **Prerequisite:** BMIS 2000 or consent of instructor. (.5 hr lec, 1 hr lab)

BOTK-2950 Employment Orientation (1)

Students acquire information regarding self-evaluation, career fields, and job acquisition skills. Students gain practical experience in preparing cover letters, job application letters, resumes, and application forms. Mock interviews help students sharpen interview skills. **Prerequisite:** Successful completion of at least 30 credit hours recommended. (1 hr lec)

BUSINESS (BUSN)

BUSN-2000 Introduction to International Business (3)

A broad survey of the field of international business which introduces the basic concepts of international business activity and theory. Reviews major foreign environmental forces (financial, economic and socioeconomic, physical, sociocultural, political, legal, labor, competitive, and distributive) within the context of strategic management issues. (3 hrs lec)

CHEMISTRY (CHEM)

CHEM-1000 Introduction to Chemistry (5)

Principles of chemistry with some inorganic applications. Chemistry for life science students and other students not requiring a rigorous preparation in theories and principles. CHEM 1000 and CHEM 2300 satisfy full-year requirements for general, organic, and biochemistry. **Prerequisite:** Placement at math level 3 or above or concurrent enrollment in MATH 0930. (5 hrs lec, 2 hrs lab)

CHEM-1002 Integrated Sciences (4)

An introduction to the concepts and methodologies of science which integrates basic principles from the physical, geological, and biological sciences. The idea behind each of the concepts is also treated in its historical context, with special attention to its importance in understanding of the nature of the universe. The course is intended for nonscience majors and uses little mathematics. (3 hrs lec, 2 hrs lab)

CHEM-1010 Principles of Chemistry (4)

A one-semester course which covers the development of the fundamental ideas and methods of chemistry as applied to scientific and social problems. Credit cannot be earned in both CHEM 1000 and CHEM 1010. **Prerequisite:** Placement at math level 2 within one year prior to enrollment. (3 hrs lec, 2 hrs lab)

CHEM-1020 General Chemistry I (5)

Principles and theories of chemistry, designed for science and related concentrations. Students acquire knowledge of atomic and molecular structures; periodic law; ionic theory; behavior and properties of gaseous, liquid, and solid states of matter; plus some study of nonmetallic elements. **Prerequisite:** High school chemistry preferred. Concurrent enrollment in MATH 1400 or above

or equivalent math background, or completion of CHEM 1000. (4 hrs lec, 3 hrs lab)

CHEM-1030 General Chemistry II (4)

Continues CHEM 1020. Students acquire knowledge of oxidation-reduction reactions, additional nonmetals, groups on the periodic chart, radioactivity, nuclear chemistry, and organic chemistry. **Prerequisite:** CHEM 1020. (3 hrs lec, 3 hrs lab)

CHEM-1090 Fundamentals of the Physical Universe (4)

Applies fundamental principles of chemistry and physics to real life situations. Designed primarily for students specializing in elementary education. Equivalent to PHYS 1090. **Prerequisite:** Placement at math level 3 within one year prior to enrollment. (3 hrs lec, 2 hrs lab)

CHEM-2149 Nuclear Century (3)

Students acquire an understanding and appreciation for the development of nuclear energy and the social, psychological, political, and environmental issues associated with it. This course is team taught by a historian with a chemist or a physicist. This course is the same as HIST 2140 and PHYS 2149. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

CHEM-2230 Quantitative Analysis (4)

Fundamental concepts of quantitative analysis, application, and techniques of gravimetric, volumetric, and instrumental analysis. **Prerequisite:** MATH 1400 or equivalent, CHEM 1000 or CHEM 1030. (2 hrs lec, 6 hrs lab)

CHEM-2300 Introduction to Organic Chemistry (4)

Students learn basic principles and methods of organic chemistry including nomenclature, structure, reactions, reaction mechanisms, and stereochemistry. They also acquire introductory knowledge of nuclear magnetic resonance, infrared, ultraviolet, and mass spectral analysis of organic compounds. **Prerequisite:** CHEM 1000 or CHEM 1020. Not for students who have taken CHEM 2320 or CHEM 2340. (4 hrs lec)

CHEM-2320 Organic Chemistry I (4)

The first semester of a continuing course studying aliphatic compounds of carbon. Includes nomenclature, structure, preparation, reactions, reaction mechanisms, and stereochemistry. Introduces nuclear magnetic resonance, ultraviolet, infrared, and mass spectral analysis of organic compounds. **Prerequisite:** CHEM 1030 or equivalent. (3 hrs lec, 3 hrs lab)

CHEM-2340 Organic Chemistry II (4)

Aromatic compounds stressed. Emphasizes functional groups of compounds covered first semester along with others. Covers fats, carbohydrates, and proteins in the latter part of course as background for biochemistry. **Prerequisite:** CHEM 2320. (3 hrs lec, 3 hrs lab)

CHEM-2385 Research in the Life and Physical Sciences (3)

Research in the Life and Physical Sciences offers students the opportunity to work with other stu-

dents interested in science disciplines. Students will develop individual projects within their discipline, and with fellow students, exchange ideas, and develop an appreciation for the commonality between scientific disciplines and the role of science in society. Students will be expected to make a public presentation of their work. **Prerequisite:** Successful completion of at least 30 credit hours. (3 hrs lec) **Capstone Course**

CHEM-2465 Introduction to Chemical Research (1-3)

Introduces various methodologies employed in chemical research. Includes literature searches, data collection and analysis, and research report writing. **Prerequisite:** Consent of instructor. (1-2 hrs lec, 2-6 hrs lab)

CHEM-2485 Chemistry Capstone Seminar (1)

Students design and implement an independent laboratory project involving either chemical syntheses or chemical analysis. Students are evaluated on their ability to organize their laboratory notebook, integrate scientific literature into their project, provide a thirty-minute project-based presentation before the Physical Science Division faculty and respond to questions about their work. **Prerequisite:** Concurrent enrollment in CHEM 2340 and successful completion of at least 30 credit hours. (.5 hr lec, 1 hr lab) **Capstone Course**

COMPUTER APPLICATIONS (CMAP)

CMAP-1610 Windows I (1)

Provides the student with basic understanding of the Microsoft Windows operating environment. Students master the basic concepts of Windows, including multitasking, memory, disk, program and file management, icons, pull-down menus, pointing devices, and printing. (.5 hr lec, 1 hr lab)

CMAP-1615 Operating Systems (3)

Students become versed in various operating systems. Students will acquire the basic skills necessary in the use of multi-user, multitasking operating systems. Topics include user accounts, the file system, directories, the editor, a mail system, I/O commands, file commands, and scripting. **Prerequisite:** BMIS 2000 or CMAP 1920. (2 hrs lec, 2 hrs lab)

CMAP-1635 Visual Basic for Microsoft Office: (3)

Students learn programming language and become familiar with input/output, comparisons, introductory concepts, and report formats. Skills in problem analysis, using design tools, coding, testing, and documentation are also developed. This course may be repeated for credit when the programming language used changes. **Prerequisite:** BMIS 2000 and a grade of "C-" or better in BADM 1005 or MATH 0930 or placement at math level 3 within one year prior to enrollment. (2 hrs lec, 2 hrs lab)

CMAP-1650 Local Area Networks I (3)

Students enhance their skills with computer networking technologies. Course is designed to serve the needs of information systems professionals and other individuals, as well as those who are interested in obtaining Microsoft or Novell certification

on this topic. **Prerequisite:** BMIS 2000.
(2 hrs lec, 2 hrs lab)

CMAP-1680 Microcomputer Applications: (1-3)
Specialized studies in microcomputer applications. Students acquire knowledge and skills regarding new and current software application packages. (.5 lec, 1 hr lab for one-credit hour, 2 hrs lab for each additional hour)

CMAP-1700 Word Processing I: (1)
Students apply basic word processing theory and applications in creating personal and professional documents. Course does not apply toward an AAS degree in Business Technology. (.5 hr lec, 1 hr lab)

CMAP-1705 Word Processing II: (1)
A study of word processing advanced applications and their uses for personal and professional opportunities. Course does not apply toward an AAS degree in Business Technology. **Prerequisite:** CMAP 1700 or equivalent. (.5 hr lec, 1 hr lab)

CMAP-1715 Word Processing: (2)
Students apply intermediate and advanced word processing theory and applications in creating and formatting complex documents. May prepare students to take popular certification exams. **Prerequisite:** BMIS 2000 or equivalent and keyboarding skill of 30 wpm or better. (1 hr lec, 2 hrs lab)

CMAP-1750 Spreadsheet Applications I: (1)
Students apply basic electronic spreadsheet theory and applications in creating, formatting, and charting simple spreadsheets. Course does not apply toward an AAS degree in Business Technology. **Prerequisite:** CMAP 1610 or equivalent and keyboarding skill of 30 wpm or better. (.5 hr lec, 1 hr lab)

CMAP-1765 Spreadsheet Applications: (2)
Students apply intermediate and advanced electronic spreadsheet theory and applications in creating, formatting, and charting complex spreadsheets. May prepare students to take popular certification exams. **Prerequisite:** BMIS 2000 or equivalent and keyboarding skill of 30 wpm or better. (1 hr lec, 2 hrs lab)

CMAP-1800 Database Applications I: (1)
Students apply basic electronic database theory and applications in creating, formatting, and querying simple databases. Course does not apply toward an AAS degree in Business Technology. **Prerequisite:** CMAP 1610 or equivalent and keyboarding skill of 30 wpm or better. (.5 hr lec, 1 hr lab)

CMAP-1815 Database Applications: (2)
Students apply intermediate and advanced electronic theory and applications in creating, formatting, and querying databases. May prepare students to take popular certification exams. **Prerequisite:** BMIS 2000 or equivalent and keyboarding skill of 30 wpm or better. (1 hr lec, 2 hrs lab)

CMAP-1850 Desktop Publishing I: (3)
Students enhance ability to prepare professional documents using desktop publishing software. They explore graphic design techniques, principles

of page layout, terminology, and applications in a Windows environment. Students create fliers, brochures, newsletters, and business cards, plus build skill in using style sheets, templates, and the importation of data created in other software programs. **Prerequisite:** BMIS 2000. (2 hrs lec, 2 hrs lab)

CMAP-1890 World Wide Web Authoring (1)
Students develop preliminary skills to plan, create, and maintain a Web page. Skills include links, graphics, animation, tables, forms, and other enhancements for sites on the World Wide Web. **Prerequisite:** CMAP 1610. (.5 hr lec, 1 hr lab)

CMAP-1920 Computer Hardware Maintenance (3)
Students engage in a comprehensive study of how to maintain, manage, and troubleshoot the PC computer. Students learn to diagnose and solve problems that occur in the hardware and software operations. Preparation for the industry recognized A+ technician certification is emphasized. (2 hrs lec, 2 hrs lab)

CMAP-1930 LAN Wiring and Network Technology (3)
Students gain the necessary background and skills to physically connect network topologies. An in-depth study of the OSI 7-layer model of network communications is accomplished. Topics include basic transmission media, network computing, different network services and parts, and various protocols. (2 hrs lec, 2 hrs lab)

CMAP-1940 LAN Server Installation & Configuration (3)
Students learn to install the chosen LAN server software, configure it to given specifications, and how to operate a server on a day-to-day basis. Will cover security, system management, and system configuration. **Prerequisite:** CMAP 1930 or consent of instructor. (2 hrs lec, 2 hrs lab)

CMAP-1950 LAN Services and Support (3)
Students learn to install network-related hardware in a hands-on format. Skills include prevention, diagnosis, and resolution of hardware-related problems, as well as network management and design. **Prerequisite:** CMAP 1930. (2 hrs lec, 2 hrs lab)

CMAP-2520 Telecomputing/Internet (3)
Students learn basic concepts of data communications. Topics include communication standards, various transmission methods, types of media, equipment and interface, communication codes, protocols and architectures, terminal emulation, and data communication products. **Prerequisite:** BMIS 2000 and CMAP 1680. (2 hrs lec, 2 hrs lab)

CMAP-2540 Introduction to Help Desk Management (2)
This course provides students with a broad understanding of help desk and support service, business practices and the tools and technology most frequently used to support those business practices. This course focuses on a generic description of software that might be used, also teaches students to retrieve the most up-to-date information about general IT and support business practices by using the Internet as a resource for white papers, product

demonstrations, and trial versions of software. **Prerequisite:** Successful completion of at least 30 credit hours and CMAP 2825. (1 hr lec, 2 hrs lab)

CMAP-2585 Web Applications (3)
Students acquire the skills necessary to build and maintain dynamic web pages. Topics include data sources, record sets, dynamic content and database use. **Prerequisite:** CMAP 1635 or PHTO 2660. (2 hrs lec, 2 hrs lab)

CMAP-2630 Presentation Graphics: (2)
Students acquire skills necessary to make effective visual presentations for agriculture, business, education, communication, or other fields where electronic presentations may be used to accomplish or enhance a task. **Prerequisite:** BMIS 2000 or CMAP 1610 or consent of instructor (1 hr lec, 2 hrs lab)

CMAP-2720 Systems Management (3)
Students learn to analyze the design and implementation of various online business systems. Each student will be required to do a case analysis and presentation to demonstrate acquired skill. **Prerequisite:** CMAP 1940, CMAP 1950, and successful completion of at least 30 credit hours. (2 hrs lec, 2 hrs lab) **Capstone Course**

CMAP-2825 Help Desk Fundamentals (4)
A course designed to help students gain the knowledge and skills necessary to set up and manage a help desk. Topics include help desk operations, examining tools and technologies used to track and log work requests, prioritizing work load, delivering quality technical customer service, and developing troubleshooting and problem solving techniques. **Prerequisite:** BMIS 2000. (3 hrs lec, 2 hrs lab)

CMAP-2840 Network Documentation (2)
Introduces the tools and concepts of creating technical documentation. Course offers an overview of network documentation, and the creating of different types of documentation as well as tools to create the documents. **Prerequisite:** ENGL-1010. (2 hrs lec)

CMAP-2850 Wireless Networking (3)
Students learn to install wireless network-related hardware in a hands on format. Skills include prevention, diagnosis, and resolution of problems as well as network management. **Prerequisite:** CMAP 1940. (2 hrs lec, 2 hrs lab)

CMAP-2900 Advanced Integrated Computer Applications (3)
An advanced course in computer and information systems. Introduces advanced concepts in hardware, software, computer architecture, information processing, data communications, and information management. Incorporates advanced integrated application experiences in operating system, word processing, spreadsheet, database, and presentation graphics software. **Prerequisite:** BMIS 2000. (2 hrs lec, 2 hrs lab)

CMAP-2970 Internship: (3-6)
Students acquire hands-on work experience in a business setting related to the area of study they are specializing in. Students apply their knowledge to real-world problems, receive guidance from on and off campus professionals, and gain

an assessment of their professional competencies.
Prerequisite: Successful completion of at least 30 credit hours in an appropriate option.
 (2 hrs lab per credit hour)

COMMUNICATION AND MASS MEDIA (CO/M)

CO/M-1010 Public Speaking (3)

An introductory course with emphasis on oral communication theory and practice. Provides a basic understanding of the significance of oral communication as well as instruction and practice in the basic skills of public speaking.
 (3 hrs lec)

CO/M-1025 Communication for Health Care Professionals (2)

Focuses on interactions of people involved in the health care process, and the dissemination and interpretation of health-related messages. Explores the communication demands of health care. Examines communication issues and problems in modern health care systems. Emphasis is on provided-recipient communication, communication in health concerns, and application strategies for the implementation of effective communication.
 (2 hrs lec)

CO/M-1030 Interpersonal Communication (3)

Concerned with communication on a person-to-person and small group level. Considers verbal and nonverbal areas, with instruction designed to provide insight into improving communication with others through discovery and relevant theory.
 (3 hrs lec)

CO/M-1040 Introduction to Human Communication (3)

Explores significant aspects of human communication. Focuses on the role of communication in current affairs, business, and personal relations. Discusses practical application of theory to communication problems in everyday life.
 (3 hrs lec)

CO/M-1200 Beginning Sign Language-SEE II (2)

Focuses on acquisition of basic vocabulary using Signing Exact English (SEE II). Emphasis on accuracy, finger spelling, expressiveness, as well as understanding of language principles and systems, deaf culture, and philosophy of signing. Includes an introduction to transliteration.
 (2 hrs lec)

CO/M-1220 Intermediate Sign Language-SEE II (2)

Emphasis on clear expressive signing, reversal skills, enhanced vocabulary, signing principles, and philosophy related to the method known as Signing Exact English. Some review of CO/M 1200 vocabulary. **Prerequisite:** CO/M 1200.
 (2 hrs lec)

CO/M-1260 Early Intervention for Deaf (2)

Explores early identification of hearing loss, the importance of early intervention, early intervention methods, how hearing loss affects understanding of language and speech, and deaf culture.
 (2 hrs lec)

CO/M-2010 Leadership Skills: (1-3)

This course is designed to educate specified groups in effective leadership skills. Includes discussion

and practice in teamwork, communication, critical thinking and problem solving, planning, conflict management, and social responsibility. **Prerequisite:** consent of instructor.
 (.5 hr lec, 1 hr lab)

CO/M-2020 Advanced Sign Language (2)

Course focuses on enhancement of interpreting/transliterating skills. Additional sign language vocabulary learned through knowledge of Sign Language Families of Signs. Students learn appropriate facial and body expression, enhancement of receptive and expressive sign language skills, increased understanding of sign language principles, various sign language systems, deaf culture, and the philosophy of signing. **Prerequisite:** CO/M 1220.
 (2 hrs lec)

CO/M-2060 Forensics (1)

Develops basic skills in contest and public service speaking by refining the speaking and thinking competence of students. Requires attendance at two competitive tournaments per semester in debate and/or individual events. May be repeated three times for credit.
 (2 hrs lab)

CO/M-2070 Introduction to Forensic Tournament Administration (1)

A practical application course for students interested in the administration of forensics tournaments. Students learn through instruction and hands-on application of procedures designed to run both computerized individual events and computerized debate programs. Students receive information that includes specific procedures, ethical considerations, and financial applications. May be repeated once for credit.
 (1 hr lec)

CO/M-2080 Introduction to Forensic Research (1)

Designed to introduce students to materials used to prepare speeches for competitive purposes and provide opportunities for students to develop skills necessary to analyze, synthesize, and utilize information from a variety of sources. May be repeated once for credit.
 (1 hr lec)

CO/M-2090 Introduction to Persuasion (3)

Introduces rhetorical theory and communication practices related to the field of persuasion. Emphasizes persuasive campaigns, techniques, psychological factors, and persuasive applications in our society.
 (3 hrs lec)

CO/M-2110 Nonverbal Communication (3)

Designed to acquaint people with the nonverbal aspects of communication. Studies areas such as kinesics, proxemics, paralinguistic, and touch. **Prerequisite:** CO/M 1030.
 (3 hrs lec)

CO/M-2120 Small Group Communication (3)

Instruction and practice in group communication and problem solving. Provides the format of study for understanding dynamics of group discussion with leadership, interpersonal relations procedures, and creative and critical thinking.
 (3 hrs lec)

CO/M-2125 Family Communication (3)

Designed to explore the patterns of communication

in family relationships. Uses a systems approach which provides a perspective for describing family interaction patterns and processes and considers external influences on the development of family relationships. Descriptive, not prescriptive, in nature. Not designed as a counseling or therapy class. Information presented assists understanding of the vitality of communication in the development of functional and dysfunctional family relationships.
 (3 hrs lec)

CO/M-2150 Argumentation (3)

Instruction in the principles of argumentative speaking. Practices various types of debate with emphasis on analysis, evidence, reasoning, case construction, and delivery.
 (3 hrs lec)

CO/M-2485 Sophomore Seminar: Communication (3)

Student integrates knowledge from courses in the student's area of specialization and skills from the general education program. The focus for students is an intermediate view of the field, its history, current developments, and future directions. Student completes and presents a significant project that reflects the chosen career area or discipline. **Prerequisite:** Successful completion of at least 30 credit hours.
 (3 hrs lec) *Capstone Course*

COMPUTER SCIENCE (COSC)

COSC-1010 Introduction to Computer Science I (4)

Introduces algorithms in searching, sorting, and symbolic computing. Uses recursion in the process of solving problems and introduces numerical methods. Covers complex data types such as data abstraction and modular design. Correctness analysis, verification, and complexity explained in lecture and used in labs. Covers necessary mathematics as needed.
 (3 hrs lec, 2 hrs lab)

CRIMINAL JUSTICE (CRMJ)

CRMJ-2120 Introduction to Criminal Justice (3)

An exploration of the police, courts, and correctional agencies that oversee American justice. Examines process and philosophies that underlie the establishment of the modern criminal justice system. Credit cannot be earned in both CRMJ 2120 and POLS 2120.
 (3 hrs lec)

CRMJ-2210 Criminal Law (3)

A survey of the basic fundamental principles of American substantive criminal law. Topics include the nature and origin of criminal law, Constitutional limitations, criminal liability, criminal defenses and excuses, and exploration into the elements of criminal offenses. Credit cannot be earned in both CRMJ 2210 and POLS 2210.
 (3 hrs lec)

CRMJ-2400 Criminology (3)

Introduction to the field of criminology describing the nature and extent of crime in the United States. Topics include theories on crime causation, classifications of crime, collection of crime statistics, and the Criminal Justice System's response to controlling crime. This course is the same as SOC 2400.
 (3 hrs lec)

CROP SCIENCE (CROP)**CROP-2200 Forage Crop Science (3)**

Studies major forage grasses and legumes with emphasis on production practices, harvest, storage, utilization, and pasture management. (2 hrs lec, 2 hrs lab)

DEVELOPMENTAL STUDIES (DVST)**DVST-0510 Fundamentals of Reading I (1-3)**

A reading course designed to improve the student's overall reading ability. Addresses specific weaknesses in skills-vocabulary, reading for the main idea, and word attack skills. May be repeated to a maximum of 4 credit hours. **Prerequisite:** Placement at reading level 1. (1-3 hrs lec)

DVST-0520 Fundamentals of Reading II (1-3)

Designed for students who need improvement in mastering basic reading skills. Areas of need determined and individual/small group instruction provided. Course goals promote individual achievement, create positive attitudes toward reading, and demonstrate practical application of learned skills and techniques. **Prerequisite:** DVST 0510 or placement at reading level 2. (1-3 hrs lec)

DVST-0600 Basic Writing I (3)

For students whose background in English has not prepared them for regular college English classes. Emphasizes grammar and mechanics. **Prerequisite:** Placement at English level 1. (3 hrs lec)

DVST-0610 Basic Writing II (3)

A continuation of DVST 0600. Designed for students whose background in English has not prepared them for college-level writing. Course covers instruction and provides writing practice in the organization of short compositions. Reviews sentence elements and usage as necessary. **Prerequisite:** Successful completion of DVST 0600 or placement at English level 2. (3 hrs lec)

ECONOMICS (ECON)**ECON-1010 Macroeconomics (3)**

The study of how economic society is organized and uses scarce resources to provide for its material wants. National income analysis, business cycles, the banking system, and monetary and fiscal policy. (3 hrs lec)

ECON-1020 Microeconomics (3)

Course emphasizes value and price theory, monopoly and public policy, markets for productive goods and services, labor economics, alternative forms of economic organization, and international trade. (3 hrs lec)

EDUCATION – CURRICULUM/ INSTRUCTION (EDCI)**EDCI-1010 Field Experience: Prospective Teachers (1)**

Provides an overview of teaching. Requires obser-

vation, interview, and reflection on teaching as a profession. Observations and interviews may be conducted in the student's hometown during semester breaks. Pass/Fail only. (.5 hr lec, 1 hr lab)

EDCI-1410 Elementary School Math Seminar I (1)

A hands-on application course designed to examine some of the methods used to teach mathematics topics covered in MATH 1100. **Prerequisite:** Previous or concurrent enrollment in MATH 1100. (1 hr lec)

EDCI-1420 Elementary School Math Seminar II (1)

A hands-on application course designed to accompany MATH 1105. Topics mirror those taught in MATH 1105 and focus on the NCTM Professional Standards for Teaching Mathematics. **Prerequisite:** Previous or concurrent enrollment in MATH 1105. (1 hr lec)

EDCI-1430 Life Science in the Elementary School (1)

Course provides material, curricula, and teaching strategies in life science appropriate for elementary school. **Prerequisite:** Previous or concurrent enrollment in BIOL 1000 or BIOL 1010. (1 hr lec)

EDCI-1440 Physical Science in the Elementary School (1)

Designed to cover a selection of basic physical science concepts, materials, and curricula appropriate for elementary school. Requires observation and participation in an assigned elementary classroom during science teaching activities. **Prerequisite:** Previous or concurrent enrollment in CHEM 1090 or PHYS 1090. (1 hr lec)

EDCI-1450 Earth Science in the Elementary School (1)

Designed to cover a selection of basic earth science concepts, materials, and curricula appropriate for elementary schools. Emphasizes methods and materials to facilitate elementary students' exploration of the earth and human interaction with it. **Prerequisite:** GEOL 1100, ASTR 1005 or ASTR 1050. (1 hr lec)

EDCI-2110 NOLS Rocky Mountain Outdoor Education (4)

The NOLS Rocky Mountain Outdoor Education course prepares graduates to demonstrate safe, competent, responsible, and ethical outdoor leadership skills. These skills include outdoor teaching techniques, wilderness camping and travel, safety management planning, expedition behavior modeling, providing effective oral and written feedback, and expedition planning. This course is taught by National Outdoor Leadership faculty and requires 21 continuous days in the field. Students must register both at Northwest College and at the National Outdoor Leadership School in Lander. This course is not approved for wellness credit. (2 hrs lec, 4 hrs lab)

EDCI-2200 Early Childhood Practicum (3-5)

Students observe and participate in programs and settings with young children. Students learn through lecture and practical applications in a supervised experience. **Prerequisite:** EDEC 1020, FCSC 2121, and successful completion of at least 30 credit hours. (1.5 hrs lec, 6-12 hrs lab) *Capstone Course*

EDCI-2340 Using Computer Technology in Teaching (2)

Designed to equip teachers and prospective teachers with information, skills, and insights necessary for successful integration of computer-based technologies into classroom teaching. Includes modeling of techniques, teacher strategies, appropriate applications of computer-based technologies in specific content areas, and consideration of computer-based issues facing educators. A course approved by the State of Wyoming's Professional Teaching Standards Board for teacher certification credit. **Prerequisite:** Wyoming teacher certification. (2 hrs lec)

EDCI-2415 Integrating Reading Methods in the Content Area (2)

Course provides teachers with expanded knowledge of reading and writing procedures relating to a variety of disciplines. Includes estimating students' reading abilities, developing techniques for vocabulary enhancement, creating new writing strategies, and developing reading-related study skills. A course approved by the State of Wyoming's Professional Teaching Standards Board for teacher certification credit. **Prerequisite:** Wyoming teacher certification. (2 hrs lec)

EDCI-2450 Adventure Education for Public School Teachers (2)

Provides training in the philosophy, skills, applications, and programming of Adventure Education in the public school setting. Includes one full day lab devoted to the presentation of an adventure education activity for a specific audience. One credit maybe used to fulfill Wellness Education requirements. This course is the same as OEPR 2450. (2 hrs lec, .5 hr lab)

EDUCATION – EARLY CHILDHOOD (EDEC)**EDEC-1020 Introduction to Childhood Education (3)**

An introduction to the field of early childhood education. Emphasizes developmentally appropriate practices and basic skills for working with young children. Focuses on professional opportunities and programs. (3 hrs lec)

EDEC-1030 Infant Toddler Care (3)

This course provides information on growth and development of children under the age of 3, along with curriculum implications; defines the interactive role of the caregiver and explores other components of infant toddler care including implementation of quality programming and adult interaction. This course will include a field experience. (3 hrs lec)

EDEC-1300 Curriculum Planning and Development for Young Children (3)

Students will develop skills in planning, implementing, and evaluating developmentally appropriate experiences to encourage the intellectual, physical, social, emotional and creative growth in young children, with the focus on the whole child. This course will include field experience for the student. **Prerequisite:** EDEC 1020. (3 hrs lec)

EDEC-2020 Child Guidance (3)

Emphasizes the dynamics that affect children's behavior. Examines appropriate and inappropriate guidance and discipline techniques and current theories, including behavior modification. (3 hrs lec)

EDEC-2485 Seminar: Operating Early Childhood Programs (3)

Students study information and procedures relating to organizing and administering group child care programs. Includes grant writing and funding, governmental requirements, and record keeping. Covers guidelines for developmentally appropriate practices for care givers and programs. *Prerequisite:* Previous or concurrent enrollment in EDEC 1020. (3 hrs lec)

EDUCATION – EXCEPTIONAL CHILDREN (EDEX)**EDEX-2190 Gifted Students (2)**

Students learn the means to identify gifted and talented students. Studies the history and philosophy of gifted education, curriculum models and strategies for the classroom, and differentiated instruction. A course approved by the State of Wyoming's Professional Teaching Standards Board for teacher certification credit. *Prerequisite:* Wyoming teacher certification. (2 hrs lec)

EDEX-2320 Introduction to Teaching Special Learners (3)

An introduction to special education. Considers characteristics of children with special learning needs. Examines services required to meet the needs of these children with an emphasis on services in the least restrictive environment. Includes at least 15 hours of field experience. *Prerequisite:* PSYC 1000. (2.5 hrs lec, 1 hr lab)

EDEX-2330 Integrating Exceptional Children (2)

Reviews information a teacher needs to help provide an individualized, appropriate program of education for a handicapped learner and to meet the unique needs of the learner in the regular classroom. Emphasis placed on new rules and regulations governing services for handicapped children and implications of these for the classroom teacher. A course approved by the State of Wyoming's Professional Teaching Standards Board for teacher certification credit. *Prerequisite:* Wyoming teacher certification. (2 hrs lec)

EDUCATIONAL FOUNDATIONS (EDFD)**EDFD-2020 Foundations of Education (3)**

Historic, philosophic, and social foundations of American education explored in relation to contemporary curricular organization and instructional approaches. Emphasizes the nature of teacher and learner, the nature of knowledge, the relationship of government to education, and the roles of government in society. *Prerequisite:* Second semester standing and grade of "C-" or better in ENGL 1010 or equivalent. (3 hrs lec)

EDFD-2100 Educational Psychology (3)

Focuses on principles of learning applied to the

instructional process for K-12 students. Provides comprehensive coverage of concepts of behavioral, cognitive, and developmental paradigms. Topics include conditioning, information processing, cognitive development, social learning, motivation, and management strategies applied to the teaching and learning process. *Prerequisite:* Grade of "C-" or better in PSYC 1000. (3 hrs lec)

EDUCATION (EDUC)**EDUC-1501 Effective Substitute Teaching (2)**

This course provides the training needed for a permit to substitute teach in the state of Wyoming as regulated by the Wyoming Professional Teaching Standards Board. Students will work to demonstrate competency in the required outcomes designated by the WPTSB which include: age level communication skills, use and application of lesson plans, use of instructional technology, and professional attitudes and behaviors. The course requires 24 clock hours of classroom instruction time and 30 hours of observation in the schools. *Prerequisite:* Completion of DVST 0610 with a "C-" or better or placement at English level 3. (2 hrs lec)

EDUC-2100 Public School Practicum (3-6)

Provides an extensive practicum experience for prospective educators. The instructional process includes lesson planning, evaluation, classroom dynamics, management, and communications. Opportunities for students to implement course content by working as an assistant to a classroom teacher in the public schools. *Prerequisite:* Must have completed either EDFD 2020 or EDFD 2100, and/or be concurrently enrolled in the other, and written consent of instructor and successful completion of at least 30 credit hours. (1.5 hrs lec, 6-12 hrs lab) *Capstone Course*

EDUC-2135 Fundamentals of Art for Teachers (2)

This course is designed for K-8 education candidates, currently certified teachers, or for students who want to explore an education methods class. This is a hands-on class which emphasizes the National and State Art Standard expectations for K-8 students. This course is the same as ART 2135. (2 hrs lec)

ELECTRICAL APPRENTICESHIP (ELAP)**ELAP-1515 Electrical Apprenticeship I (5)**

Provides the beginning electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include safety, introduction to the National Electrical Code, basic electrical theory, lighting and appliance circuits, and wiring methods. First course in a series of eight. *Prerequisite:* Status as a first-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1525 Electrical Apprenticeship II (5)

Provides the first year electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include

series and parallel circuits, electric power, electrical theorems, special outlets, service calculations, and applications of the National Electrical Code. Second course in a series of eight. *Prerequisite:* ELAP 1515, status as a first-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1535 Electrical Apprenticeship III (5)

Provides the second-year electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include safety, AC electricity, inductance, capacitance, transformers, motors, and applications of the National Electrical Code. Third course in a series of eight. *Prerequisite:* ELAP 1525, status as a second-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1545 Electrical Apprenticeship IV (5)

Provides the second-year electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include wiring methods, branch and feeder circuits, motor calculations, transformer sizing, and applications of the National Electrical Code. Fourth course in a series of eight. *Prerequisite:* ELAP 1535, status as a second-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1555 Electrical Apprenticeship V (5)

Provides the third-year electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include safety, blueprint reading, construction procedures, grounding and ground fault calculations, and service calculations based on the National Electrical Code. Fifth course in a series of eight. *Prerequisite:* ELAP 1545, status as a third-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1565 Electrical Apprenticeship VI (5)

Provides the third-year electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include industrial and commercial services, alarm systems, hazardous locations, and applications of the National Electrical Code. Sixth course in a series of eight. *Prerequisite:* ELAP 1555, status as a third-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1575 Electrical Apprenticeship VII (5)

Provides the fourth-year electrical apprentice with necessary skills and knowledge to ensure safe and

efficient work practices on the job. Topics include safety, motor controls, power distribution, solid state controls, and programmable controllers. Seventh course in a series of eight. **Prerequisite:** ELAP 1565, status as a fourth-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

ELAP-1585 Electrical Apprenticeship VIII (5)
Provides the fourth-year electrical apprentice with necessary skills and knowledge to ensure safe and efficient work practices on the job. Topics include advanced motor controls, branch and feeder circuits, service entrance and grounding calculations based on the National Electrical Code, and review for the State Journeyman Exam. Eighth course in a series of eight. **Prerequisite:** ELAP 1575, status as a fourth-year Electrical Apprentice with an Independent Electrical Contractor and registration with the State of Wyoming Electrical Board of the Department of Fire Prevention and Electrical Safety as an apprentice electrician. (5 hrs lec)

EMERGENCY MEDICAL TECHNOLOGY (EMT)

EMT-1500 Emergency Medical Technician-Basic (5)

This course is designed for preparation of the Emergency Medical Technician. Includes anatomy and physiology of the human body, techniques of emergency treatment for various injuries and emergency situations, and other topics related to emergency medical and first aid practices. Minimum of 165 hours of classroom and laboratory instruction is required. In addition, the student is required to spend 16 hours riding in the ambulance and 24 hours in the emergency room. This course meets the U.S. Department of Transportation (DOT) curriculum standards. Successful completion of the course prepares students to take the national registry written examination and the state practical assessment. Students need to understand that in order to sit for the national registry exam, they must pass the three state written exams with a 70% or better and be able to read and write English. There are certain physical requirements that must be met in order to take the state practical assessment tests. **Prerequisite:** HLED 1225, HLED 1660 or NRST 1660, or consent of instructor. (3 hrs lec, 4 hrs lab)

EMT-2530 Emergency Medical Technician-Intermediate (4)

Students will acquire advanced preparation of the Basic Emergency Medical Technician teaching the student how to think, not what to think. This course includes: advanced patient assessment, cardiovascular emergencies, advanced cardiac life support techniques, manual defibrillation, medical emergency medication, cardiac medication administration, intravenous therapy, multi-lumen intubations, pain medication, and pain management medication. Minimum of 80 hours of classroom and laboratory instruction is required. In addition, the student is required to spend 30 hours in a pre-hospital setting. **Prerequisite:** Student must possess current certification as a Wyoming Ambulance Attendant; show evidence of 12 months of active

affiliation with a Wyoming licensed ambulance service as an attendant prior to enrollment; demonstrate competency in basic emergency medical technician skills through verification of a performance review by the physician medical director; and score a minimum of 80% on the State EMS Office pre-course written exam. (The exam may not be taken sooner than 30 days prior to the scheduled start of this EMT-Intermediate course.) (3 hrs lec, 1 hr lab)

ENGLISH (ENGL)

ENGL-1010 English I - Introduction to Composition (3)

Emphasizes the writing of personal, informative, persuasive, and argumentative prose. Includes critical reading and class discussion. **Prerequisite:** Completion of DVST 0610 with a "C-" or better or placement at English level 3. (3 hrs lec)

ENGL-1020 English II - Introduction to Literature (3)

Designed as a reading and writing course devoted to the study of the content and technique involved in poems, short stories, plays, and occasionally novels. **Prerequisite:** Completion of ENGL 1010 with a "C-" or better. (When designated as an Honors section, the prerequisite is: Acceptance into the Honors Program or completion of ENGL 1010 with an "A-" or better. All students who satisfactorily complete the Honors section will receive Honors credit.) (3 hrs lec)

ENGL-1210 English As a Second Language (3)

Provides non-native speakers of English with instruction in this area. The course is designed for students from other countries who are attending school in the United States for the first time. Students will cultivate speaking, listening, reading, and writing skills using individual learning styles. **Prerequisite:** TOEFL score of 500 or consent of instructor. (3 hrs lec)

ENGL-2000 Introduction to Language (3)

A practical introduction to the study of language, including history and structure of the language, the study of meaning, the relationship between language and thought, and the relationship between language and social interaction. (3 hrs lec)

ENGL-2010 Technical Writing (3)

Designed to familiarize students with job-related writing, emphasizing the roles audience and environment play in successful communication. Includes correspondence, document design, and report writing. **Prerequisite:** Completion of ENGL 1010 with a "C-" or better. (3 hrs lec)

ENGL-2017 Introduction to Research (3)

Designed to provide students with a variety of research skills and methods. Includes primary and secondary research. Introduces various documentation styles, including APA and MLA. **Prerequisite:** Completion of ENGL 1010 with a "C-" or better. (3 hrs lec)

ENGL-2030 Critical Reading and Writing (3)

Focuses upon the twin skills of analytical reading and

interpretive writing. The connection between reading and writing is the ability to use critical thinking, and a study of critical thinking within the course provides the foundation for the other two skills. **Prerequisite:** Completion of ENGL 1010 with a "C-" or better. (3 hrs lec)

ENGL-2050 Creative Writing: Prose I (3)

Emphasizes the writing of fiction and nonfiction prose. (3 hrs lec)

ENGL-2055 Creative Writing III: Writing in Wild (3)

This is an on-site, nature writing course set primarily in the Greater Yellowstone Basin. Equipped with writing journals, students will explore the landscape of back-country trails, wildlife viewing areas, geyser walks, etc. Emphasis will be on observation and writing, utilizing techniques culled from representative nature writers. The course includes an on-campus introductory lecture and post-seminar final. Generally, this course will be taught in conjunction with "Art in the Wild," a three-credit visual art course offered by the Art Department. **Prerequisite:** Completion of ENGL 1010 with a "C-" or better or consent of instructor. (3 hrs lec)

ENGL-2060 Creative Writing II: Writers' House (3)

Offers students a living and working space in which they can develop individual writing projects, participate in collaborative public service projects (including teaching in a public school workshop), and present public readings/ exhibitions. Emphasizes engagement in a student writing and learning community. **Prerequisite:** Completion of 12 hours of college-level work including at least one ENGL course and consent of instructor. (3 hrs lec)

ENGL-2080 Creative Writing: Poetry I (3)

Emphasizes the writing of poetry, with attention to various poetic forms. (3 hrs lec)

ENGL-2170 The Bible as Literature (3)

Examines portions of the Revised Standard version of the Bible in terms of literary form, including some of the history of writing and translation. (3 hrs lec)

ENGL-2210 English Literature I (3)

Covers English literature from Anglo-Saxon times to the Age of Reason. Stresses in-depth study of authors and periods. (3 hrs lec)

ENGL-2220 English Literature II (3)

Covers English literature from Romanticism to the present. Stresses in-depth study of authors and periods. (3 hrs lec)

ENGL-2230 Introduction to Shakespeare (3)

Introduces selected Shakespearean sonnets, comedies, histories, and tragedies, placing them in their historical context. (3 hrs lec)

ENGL-2280 Introduction to Mythology (3)

Gives an understanding of the meaning of mythology and its impact on literature. Uses readings of

mythological interest in Greek and Roman literature and examines the use of mythological names and ideas for analogy or allusion in general literature. (3 hrs lec)

ENGL-2310 American Literature I (3)

Surveys the history of literature of the United States through the Colonial, National, and Romantic periods. (3 hrs lec)

ENGL-2320 American Literature II (3)

Surveys the history of literature of the United States from the rise of Realism to the present. (3 hrs lec)

ENGL-2400 Introduction to Folklore (3)

Surveys the areas of folklore and studies folklore's importance to history, literature, and everyday life. Credit cannot be earned in both HUMN 2030 and ENGL 2400. (3 hrs lec)

ENGL-2410 Literary Genres: (3)

Attempts to impart an understanding and appreciation of prose fiction, poetry, drama, film, or nonfiction prose as a genre. Includes an examination of the history and development of each literary type. Not confined to any era or country. May be repeated for a maximum of 12 credit hours. (3 hrs lec)

ENGINEERING TECHNOLOGY (ENTK)

ENTK-1510 Drafting I (3)

A beginning class in mechanical drawing. Students learn drafting principles and acquire practice with drawing equipment. Skills learned include care and use of drafting equipment, free-hand lettering, multi-view and isometric projections, auxiliary views dimensioning, assembly drawings, threads, and sections. (2 hrs lec, 2 hrs lab)

ENTK-1520 Drafting II (3)

A continuation of ENTK 1510. Includes gears, cam, assembly drawings, intersections and developments, and electronic diagrams. *Prerequisite:* ENTK 1510 and concurrent enrollment in ENTK 2500. (2 hrs lec, 2 hrs lab)

ENTK-1530 Computer Aided Drafting Applications: (3)

A beginning course using the computer as a drawing tool. Includes instruction in the use of computers, plotters, digitizers, etc. Subject areas include orthographic and isometric projection, dimensioning, sketching, and plotting. This course may not be substituted for ENTK 2500. (2 hrs lec, 2 hrs lab)

ENTK-1710 Architectural Drafting I (3)

Students acquire the skills and knowledge necessary for drawing residential floor plans. Building upon basic skills of freehand line technique and lettering, students will develop complete plot plans, foundation plans, and floor plans. *Prerequisite:* ENTK 1510. (2 hrs lec, 2 hrs lab)

ENTK-1720 Architectural Drafting II (3)

A continuation of ENTK 1710. Advanced techni-

cal topics include foundation, electrical, framing, plot plans, air conditioning, and solar. *Prerequisite:* ENTK 1710. (2 hrs lec, 2 hrs lab)

ENTK-1750 Commercial Architectural Drafting (3)

Instruction and practice in commercial design and construction. Includes plot, foundation, and floor plans. Emphasizes work with schedules, specifications, and design presentation drawings. *Prerequisite:* ENTK 1710. (2 hrs lec, 2 hrs lab)

ENTK-1800 Cartography I (3)

Drafting instruction relative to reading and creating topographical maps for surveying and construction industries. *Prerequisite:* ENTK 1510 and MATH 1450. (2 hrs lec, 2 hrs lab)

ENTK-2070 Engineering Surveying (3)

Principles of surveying and map making. Operation and use of surveying instruments, including Total Station and Data Collector. Measurement of distances, horizontal and vertical curves, open and closed traverse, area and volume calculations, and land subdivisions. Conversion of field data to electronic formats such as Geographic Information Systems (GIS) and Computer Aided Drafting (CAD) programs. *Prerequisite:* MATH 1405 or MATH 1450. (2 hrs lec, 3 hrs lab)

ENTK-2500 Computer Aided Drafting I (3)

Provides a general understanding of and basic skill development for using Computer Aided Drafting (CAD) equipment. Includes an introduction to computer graphics, graphic commands, plotting, three-dimension graphics, isometric plotting, axonometric plotting, and perspective drawing. (2 hrs lec, 2 hrs lab)

ENTK-2505 Computer Aided Drafting II (3)

A continuation of ENTK 2500. Emphasizes intermediate CAD techniques, including methods of improving productivity, customizing CAD, and three-dimensional concepts. *Prerequisite:* ENTK 2500. (2 hrs lec, 2 hrs lab)

ENTK-2510 Computer Aided Drafting III (3)

Designed to acquaint the user with AutoCAD's programming language, terminology, and programming techniques. Macros covered. *Prerequisite:* ENTK 2505. (2 hrs lec, 2 hrs lab)

ENTK-2530 Computer Aided Drafting 3-D (3)

In this advanced course, students work with presentation graphics. They develop knowledge and skills related to constructing three-dimensional objects through experience with applying surfaces plus rendering and creating 3-D and animated presentations, logos, and walk-throughs. In conjunction with daily assignments, students complete and present a final capstone project. *Prerequisite:* ENTK 2500, ENTK 2505, and successful completion of at least 30 credit hours. (2 hrs lec, 2 hrs lab)

Capstone Course

ENTK-2615 MicroStation Fundamentals (3)

For the new MicroStation user, this course builds a solid foundation in the concepts, tools and features

found in the MicroStation drawing environment. Starting with setting up a drawing and concluding with plotting, the participant is walked through a typical workflow using the tools and features of the latest version of MicroStation. *Prerequisite:* ENTK 2500. (2 hrs lec, 2 hrs lab)

ENTK-2625 Advanced Microstation (3)

For the experienced MicroStation user, this course focuses on the features of MicroStation designed to improve user productivity. Providing lecture, demonstration and hands-on exercises, Advanced MicroStation begins with a thorough examination of AccuDraw and ends with an introduction to importing and exporting CADD data from/to other CADD programs. *Prerequisite:* ENTK 2615. (2 hrs lec, 2 hrs lab)

ENTK-2650 Introduction to Computer Animation-Fundamentals of 3ds Max

The 3ds™ Fundamentals Course teaches the fundamentals of 3ds max. The course contains both informational material and practical exercises that go beyond the basic functionality of the software and explains techniques used by production artists including animation, modeling, materials, lighting, rendering, and scene creation. (2 hrs lec, 2 hrs lab)

ENTOMOLOGY (ENTO)

ENTO-1001 Insect Biology (4)

Designed to provide students with an introduction to insects and related arthropods. Introduces aspects of insect biology, behavior, life history, and diversity in relation to various ways insects affect humans. (3 hrs lec, 2 hrs lab)

EQUINE STUDIES (EQST)

EQST-1505 Basic Horsemanship (1)

For those with little riding experience or those who wish to improve riding skills. Covers leading, grooming, bridling, saddling, and stable management plus use of seat, hands, and legs to influence control of horse. Uses either English or western tack. *Prerequisite:* Consent of instructor. (1 hr lec, 2 hrs lab)

EQST-1510 Equine Nutrition (2)

Includes study of essential nutrients, digestive physiology, and the varying nutrient requirements from birth to maturity. *Prerequisite:* MATH 1510 or MATH 1400. (2 hrs lec)

EQST-1520 Horse Production I (3)

A study of health care, common health problems, and preventing and treating illness. Includes the mechanics of movement, learning theory, behavior, and equine limitations. (3 hrs lec)

EQST-1525 Horse Production II (3)

A study of stable design and maintenance. This course examines breeds, genetics, safety factors, record management, and legal aspects of the horse industry. *Prerequisite:* EQST 1520. (3 hrs lec)

EQST-1530 Saddlery (1)

A course for equestrians designed to answer questions about what makes saddlery function, saddle manufacture, and what to look for in buying saddles and tack. Covers both English and western using live models, slides, and demonstrations. (1 hr lec)

EQST-1540 Applied Horse & Stall Care I (1)

Students responsible for twice daily feeding and stall care. Covers proper watering, grooming, foot and veterinary care; aisle way, arena, and tack maintenance; and specific adherence to rules and procedures concerning horses in the Equine Center. Emphasizes basic health and horse care records; types of feed, composition, and evaluation of additives and supplements; and safe handling of horses. (2 hrs lab)

EQST-1545 Applied Horse & Stall Care II (1)

Students responsible for twice daily feedings and stall care. Covers proper watering, grooming, foot and veterinary care; aisle way, arena, and tack maintenance; and specific adherence to rules and procedures concerning housing horses in the Equine Center. Emphasizes stable designs, geographic locations, space needs, costs, operational needs, long-term planning, and records. *Prerequisite:* EQST 1540 with a “C-” or better. (2 hrs lab)

EQST-1550 Equine Evaluation I (2)

Anatomy and conformation of the horse as related to various breeds judged. Specific rules and regulations of breed associations. Includes lecture, visual appraisal, judging terminology, and preparation of oral reasons. (1 hr lec, 2 hrs lab)

EQST-1560 Equine Artificial Insemination (2)

Discussion of the anatomy of the reproductive systems and physiology of the reproductive and endocrine systems as they relate to successful artificial insemination. Labs involve practice of collection, evaluation, and insemination techniques. (1 hr lec, 2 hrs lab)

EQST-1650 Equine Evaluation II-Competitive (2)

Designed for students who have completed EQST 1550 and who are second-year level judges. All classes of horses judged with emphasis on competitive judging. Oral reasons presentation stressed. *Prerequisite:* EQST 1550. (1 hr lec, 2 hrs lab)

EQST-1660 Equine Evaluation II-Non Competitive (2)

Continued instruction in the development of skills needed to become knowledgeable with the specific rules and regulations of breed associations in regards to performance classes. Lecture, as well as visual appraisal, judging terminology and scoring of classes will be the objective of this course. *Prerequisite:* EQST 1550. (3 hrs lec)

EQST-1680 Horse Handling and Behavior (2)

Management of the horse on the ground. Topics include foal/stallion handling, restraints, behavior of horses, and general management of a horse facility. (1 hr lec, 2 hrs lab)

EQST-1805 Farrier Science I (2)

Course covers proper methods of trimming and

shoeing to promote equine soundness and performance. Students learn to understand and recognize good basic foot care. Prepares students for understanding and performing correct, corrective, and therapeutic shoeing taught in more advanced classes. (1 hr lec, 2 hrs lab)

EQST-1810 Farrier Science II (3)

Studies conformation and gaits. Introduces corrective and therapeutic shoeing. Students learn to balance and shoe straight, gentle horses. *Prerequisite:* EQST 1805. (1.5 hrs lec, 3 hrs lab)

EQST-1815 Production Shoeing I (3)

Designed to provide students with information and skills in basic forge work, trimming, and shoeing. *Prerequisite:* EQST 1805 or concurrent enrollment. (1 hr lec, 4 hrs lab)

EQST-1820 Production Shoeing II (3)

A continuation of EQST 1815. Course provides more advanced information and skills in forge work, trimming, and shoeing. *Prerequisite:* EQST 1815, EQST 1810, or concurrent enrollment. (1 hr lec, 4 hrs lab)

EQST-1825 Production Shoeing III (3)

A continuation of EQST 1820. Students will acquire more advanced information and skills in forge work, trimming, and shoeing. This course further prepares students for the AFA certified examination. *Prerequisite:* EQST 1820. (1 hr lec, 4 hrs lab)

EQST-1830 Production Shoeing IV (3)

A continuation of EQST 1825. Students will acquire mastery of the essential information and skills in forge work, trimming, and shoeing necessary to pass the AFA certified examination. *Prerequisite:* EQST 1825. (1 hr lec, 4 hrs lab)

EQST-1960 Specialized Applications in Equine Studies: (1-3)

Course addresses a diversity of equine subjects. Topics vary and may be drawn from areas within the equine field. Utilizes lecture, lab, or clinic format for student instruction. Jumping, dressage, western riding, veterinary care, stable management and other related subjects exemplify areas of instruction. Course may be repeated using different topic titles. A maximum of 6 credits may apply toward the Equine Riding and Training degree.

EQST-2500 Equine Health Management (2)

A basic review of the major diseases that affect equine. A portion of the class covers specific anatomy affected by diseases, a review of appropriate pharmacology, and the development of a general herd health management program that agriculture producers can adapt to their own operation. (2 hrs lec)

EQST-2510 Competitive Equine Judging (2)

Designed for students who have completed EQST 1550 and EQST 1650. Students compete in intercollegiate horse judging. *Prerequisite:* EQST 1550 and EQST 1650. (2 hrs lec)

EQST-2515 Horse Show/Clinic/Event Management (2)

Emphasis will be placed on the management skills

needed to preside over the setup and operation of an open or breed horse show and/or clinics or other events. These skills may include but will not be limited to making flyers, advertising, hiring judges or clinicians, preparing the arena for the scheduled event, analyzing arena footing for the different events, finding ring stewards, announcers, show secretaries, bookkeeping, gate people, ordering ribbons and numbers, making arrangements for stalling, keeping track of year end award points, and hiring concessions if needed. Students in the course will have hands on experiences running two open shows and/or one show and one clinic/event. (.5 hr lec, 3 hrs lab)

EQST-2520 Equine Breeding (3)

Management of the stallion and the mare in breeding. Topics include types of breeding practices, behavior and psychology of handling stallions, the mare in the breeding role, hormone cycles, artificial aids such as light and drug therapy, actual foaling of a mare, growth of the foal in the uterus, recognition of foaling problems, and care of the newborn foal and mare. *Prerequisite:* ANSC 2430. (2 hrs lec, 2 hrs lab)

EQST-2540 Applied Horse & Stall Care III (1)

Students responsible for twice daily feeding and stall care. Covers proper watering, grooming, foot and veterinary care; aisle way, arena, and tack maintenance; and specific adherence to rules and procedures concerning housing horses in the Equine Center. Emphasizes budgets, marketing, records, available computer programs, total management of facilities, and stable record for horse. *Prerequisite:* EQST 1540 and EQST 1545 with a “C-” or better. (2 hrs lab)

EQST-2545 Applied Horse & Stall Care IV (1)

Students responsible for twice daily feedings and stall care. Covers proper watering, grooming, foot and veterinary care; aisle way, arena, and tack maintenance; and specific adherence to rules and procedures concerning housing horses in the Equine Center. Emphasizes design and budget of stable facility, justified designs and budgets, and stable record for horse. *Prerequisite:* EQST 1540, EQST 1545, and EQST 2540 with a “C-” or better. (2 hrs lab)

EQST-2550 Training the Young Horse I (2)

For the student desiring further knowledge in colt breaking including theory and techniques used in training a young horse, lunging, ground driving, problems that occur in riding a horse the first time, and the training sequence for achieving a “green broke” horse. Class limited to 6 students. *Prerequisite:* EQST 2680, EQST 2690 with a “C-” or better and successful completion of at least 30 credit hours. (1 hr lec, 2 hrs lab)

EQST-2555 Training the Young Horse II (2)

Preparation of green broke horse for advancement to a level appropriate for showing at futurities or preparation for marketing of young broke horses. Class limited to 6 students. *Prerequisite:* EQST 2550 with a “C-” or better and successful completion of at least 30 credit hours. (1 hr lec, 2 hrs lab)

EQST-2680 Western and English Horsemanship I (3)

Instruction in proper western horsemanship and English equitation for the student specializing in

equestrian studies. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. **Prerequisite:** Admittance to the Equine Riding and Training Program. (1 hr lec, 3 hrs lab, 1 hr arr lab)

EQST-2690 Western and English Horsemanship II (3)

Continued instruction in development of rider and horse combination in western and English riding. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. **Prerequisite:** EQST 2680 with a "C-" or better. (1 hr lec, 3 hrs lab, 1 hr arr lab)

EQST-2800 Fundamentals of Teaching Riding (3)

A methods course to prepare the prospective riding teacher. Includes knowledge of seat and its application to dressage, jumping, western riding, class control, and lunge line work; kinesiology of riding; and psychological problems. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. (2 hrs lec, 2 hrs arr lab)

EQST-2810 Training and Development of the Western Horse I (3)

Includes specialized training techniques in developing the flying lead, change, spins, and the sliding stop. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. **Prerequisite:** EQST 2680 with a "C-" or better. (1 hr lec, 3 hrs lab, 1 hr arr lab)

EQST-2820 Training and Development of the Western Horse II (3)

Continuing emphasis will be placed on the beginning and intermediate training techniques needed to develop a flying lead change, spins, and the sliding stop. Emphasis will also be placed on the intermediate training techniques needed for the trail horse (side passing, turn on haunches, turn on forehand, backing, loping, jogging, and walking over poles, working the gate, and bridge). Lecture and lab will cover exercises and theory for correct equitation and frame of the horse and rider in the areas of reining, trail, and pleasure. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. **Prerequisite:** EQST 2810 with a "C-" or better and successful completion of at least 30 credit hours. (1 hr lec, 3 hrs lab, 1 hr arr lab) *Capstone Course*

EQST-2830 Training and Development of the English Horse I (3)

Course work includes schooling the horse in areas of dressage and jumping. Includes riding training level tests and jump courses. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. **Prerequisite:** EQST 2690 with a "C-" or better. (1 hr lec, 3 hrs lab, 1 hr arr lab)

EQST-2840 Training and Development of the English Horse II (3)

This course is designed to prepare students and

their horse to compete in jumping, Hunter under Saddle, or dressage at recognized shows. Will include correct attire for horse and rider, study of the rules for each discipline, training skills necessary to compete and show successfully, proper tack selection and how to prepare mentally and physically for the rigors of competition. Students must attend a minimum of three weekend (Saturdays and/or Sundays, specific dates noted on course syllabus) clinics or horse shows to pass this course. **Prerequisite:** EQST 2830 with a "C-" or better and successful completion of at least 30 credit hours. (1 hr lec, 3 hrs lab, 1 hr arr lab) *Capstone Course*

ENGINEERING SCIENCE (ES)

ES-1000 Orientation to Engineering (1)

Introduction to skills and professional development related to engineering. Includes the engineering method, ethics, how to think and communicate visually, and the history and design of engineering. Provides activities to help the student transition to the rigorous engineering curriculum. Recommended for all entering freshmen engineering students. (.5 hr lec, 1 hr lab)

ES-1060 Introduction to Engineering Computing (3)

Introduces the use of computers in solving a wide variety of engineering and science-oriented problems. Includes documentation and report writing, computing tools for writing reports and presenting data in graphical form, equation solving, and manipulation of tabular data. **Prerequisite:** Previous or concurrent enrollment in MATH 2200. (2 hrs lec, 2 hrs lab)

ES-2110 Statics (3)

A vector approach to mechanics of stationary particles and rigid bodies. Considers external forces, moments, frictional forces, and fluid statics. **Prerequisite:** MATH 2200. (3 hrs lec)

ES-2120 Dynamics (3)

Principles of particles and rigid body motion developed in vector form and applied to engineering problems, emphasizing force-mass acceleration, work-energy, and impulse-momentum. **Prerequisite:** Previous or concurrent enrollment in MATH 2205 and PHYS 1310. (3 hrs lec)

ES-2210 Electrical Circuit Theory (4)

Basic concepts of electric circuit theory including dependent sources, network theorems, first and second order circuits and phasors. **Prerequisite:** Previous or concurrent enrollment in MATH 2205 and PHYS 1320. (3 hrs lec, 3 hrs lab)

ES-2310 Thermodynamics (4)

Introductions of thermodynamic variables, processes, and laws, followed by derivation of thermodynamics relations applied to real physical problems. Concepts include mass, energy, and entropy balances; availability; reversible and irreversible processes. **Prerequisite:** MATH 2205 and ES 2120 or PHYS 1310. (4 hrs lec)

ES-2330 Fluid Dynamics/Mechanics (3)

Students study incompressible flow of ideal and real

fluids at rest and in motion. Fluids may be liquids, vapors, gases, or combinations of these. The effects of static forces and compressibility are given special attention. Kinematics, dynamics, flow, flow resistance, and physical effects of flow are considered in detail for moving fluids. Potential and stream functions and similitude and dimensional analysis are also studied. **Prerequisite:** ES 2110 and previous or concurrent enrollment in ES 2310. (3 hrs lec)

ES-2385 Research in the Life and Physical Sciences (3)

Research in the Life and Physical Sciences offers students the opportunity to work with other students interested in science disciplines. Students will develop individual projects within their discipline, and with fellow students, exchange ideas, and develop an appreciation for the commonality between scientific disciplines and the role of science in society. Students will be expected to make a public presentation of their work. **Prerequisite:** Successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

ES-2410 Mechanics of Materials (3)

Analysis of design of members subjected to various types of loadings. Includes the mechanics of deformable bodies. **Prerequisite:** ES 2110. (3 hrs lec)

FAMILY AND CONSUMER SCIENCE (FCSC)

FCSC-1140 Nutrition (2)

This course is intended for students preparing for careers in health care. Students learn the foundations of nutrition and then apply those foundations to nutritional needs throughout the life cycle, to nutrition in clinical settings and in specific disease states. (2 hrs lec)

FCSC-1141 Principles of Nutrition (3)

Emphasizes the relationship of food to maintenance of health. Includes the human needs for energy and nutrients and their importance to the individual and society. Also stresses the importance of diet throughout the life cycle. (3 hrs lec)

FCSC-2121 Child Development (4)

Covers growth and developmental patterns in physical, social, intellectual, and emotional areas in relation to children ages birth through eight. Includes opportunities to observe principles of growth in children through an assignment in a field experience setting and identifies developmentally appropriate activities to foster development of the whole child. (3 hrs lec, 2 hrs lab)

FOOD SCIENCE (FDSC)

FDSC-2060 Fresh Meat Processing (3)

Provides study of the fabrication of carcasses into cuts, associated processing techniques, selection, preparation, and utilization of meat. Explores concerns and opportunities of the producer, packer, processor, retailer, and food service. **Prerequisite:** Consent of instructor. (1.5 hrs lec, 3 hrs lab)

FDSC-2160 Meat, Poultry, and Game Products (2)

Designed to enable students to properly care for and process game carcasses. Covers field care and aging; preparing sausage, and jerky; and curing/smoking poultry, fish, and wild game. (1 hr lec, 2 hrs lab)

FINANCE (FIN)**FIN-2000 Principles of Banking (3)**

Provides an insight into U.S. commercial banking and financial activities. Presents a broad overview of the history, functions, and regulations concerning the U.S. monetary system. (3 hrs lec)

FIN-2075 Banking Applications (1-3)

Specialized studies from the American Institute of Banking designed to address topics relevant to banking professions. Meets guidelines established by the American Institute of Banking for advanced credit. (1-3 hrs lec)

FIN-2100 Managerial Finance (3)

Students study the theory of corporate finance and the management of capital within a corporation or business. Time value of money, cash flow analysis, stock and bond valuations, risk and return, capital budgeting, capital structure, the cost of capital and dividend policy are also examined. *Prerequisite:* ACCT 2010 and STAT 2010. (3 hrs lec)

FRENCH (FREN)**FREN-1010 First Year French I (4)**

Introduces the essentials of French necessary for oral and written communication. Uses French in Action, an interactive, multimedia course which combines video, audio, and text to help students use real, unsimplified French in the context of actual communication in French. (4 hrs lec)

FREN-1020 First Year French II (4)

Continuation of FREN 1010 employing the French in Action method. *Prerequisite:* One year of high school French or completion of FREN 1010 with a "C-" or better. (4 hrs lec)

FREN-1050 Conversational French I (1-2)

Primarily for those who want to develop and enhance their ability to speak French. Provides a setting where useful vocabulary is incorporated into learned and spontaneous conversations and where cultural differences can be discussed as they pertain to everyday situations. Intended for students who have minimal proficiency or no previous French language experience. Not intended for transfer credit. (1-2 hrs lec)

FREN-2030 Second Year French I (4)

Continues the interactive, video-based French in Action method of teaching French (see FREN 1010). More advanced grammar and vocabulary are integrated into increasingly sophisticated cultural situations. Strong emphasis on verbal and written proficiency. *Prerequisite:* Two years of high school French or completion of FREN 1020 with a "C-" or better. (4 hrs lec)

FREN-2040 Second Year French II (4)

Final semester of two-year French in Action sequence. Includes comprehensive review of grammar as well as language and cultural expansion. *Prerequisite:* Three years of high school French or completion of FREN 2030 with a "C-" or better. (4 hrs lec)

FREN-2210 Intermediate Conversation & Composition I (3)

Continues the study of oral and written skills in French. Prepares students for upper division courses in advanced composition and conversation. *Prerequisite:* Four years high school French or FREN 2040. (3 hrs lec)

FREN-2460 French Field Studies: (1-3)

Course offers students the opportunity to travel in a French-speaking country. On-campus portion of course focuses on language, culture, and practical travel considerations. Students electing three credits will select one aspect of the host culture to study and evaluate during the field experience. *Prerequisite:* Consent of instructor. (1-3 hrs lec)

GEOGRAPHY AND RECREATION (G&R)**G&R-1000 Introduction to Geography (3)**

A regional geography approach used, involving an intensive, systematic consideration of the regions and countries of the world. Studies the physical and cultural dimensions of each region. (3 hrs lec)

G&R-1250 Geography of Travel & Tourism (3)

Describes the world in terms of travel destinations and physical, cultural, and economic geographical knowledge. Provides information on international travel requirements and air and surface travel abroad. Emphasis on common tourist destinations throughout the world. (3 hrs lec)

GEOLOGY (GEOL)**GEOL-1030 Geology of Northern Wyoming (3)**

A survey of the physical features, processes, and history of the mountains of northern Wyoming. Emphasis on Big Horn Basin and Mountains, Absaroka and Beartooth Mountains, and Yellowstone and Grand Teton National Parks. For the non-geologist; does not fulfill lab science requirement. Two required Saturday field trips. (3 hrs lec)

GEOL-1035 Geology Yellowstone National Park (1)

Introduction to the rocks, landscapes, and thermal features of the Park. Emphasis placed upon hot springs and geysers, volcanic activity, glaciations, and stream erosion. Material covered during a two-day field trip through the Park. For the non-geologist; does not fulfill lab science requirement. Limited enrollment. (2 hrs lab delivered through 24 clock hours in the field)

GEOL-1100 Physical Geology (4)

Modern concepts of the earth's physical makeup including materials (minerals and rocks), topography, and crustal structure, as well as processes

and forces acting on the earth including continents' motions, earthquakes, volcanoes, mountain building, and erosion. Required field trips emphasize local geology. *Prerequisite:* Placement at math level 2. (3 hrs lec, 2 hrs lab)

GEOL-1200 Historical Geology (4)

A survey of the physical and biological history of the earth as an evolving system interpreted from the sequence of rocks and fossil remains. Required field trips emphasize local geology and illustrate methods of historical reconstruction. *Prerequisite:* Placement at math level 2. (3 hrs lec, 2 hrs lab)

GEOL-1235 History and Geology of Yellowstone Area (3)

This course is an intensive, hands-on, mountain-site short course on the geology and history of Yellowstone National Park and surrounding areas and is intended primarily for K-12 teachers. (3 hrs lec)

GEOL-1546 Rocks and Minerals (1)

Students acquire a broad understanding of survey of common and economically important rocks and minerals of Northern Wyoming. This course provides an overview of the rock cycle and plate tectonics. For the non-geologist. Optional Saturday field trip. (1 hr lec)

GEOL-1547 Heart Mountain, Volcanoes and the Rockies (1)

Students will acquire a broad understanding of mountain building, volcanism, and plate tectonics. Examples focus on the geology of the Wyoming Rockies; the origin of Heart Mountain and Absaroka volcanism; and the Yellowstone hot spot. For the non-geologist. Optional Saturday field trip. (1 hr lec)

GEOL-1548 Shallow Seas and Changing Climate (1)

Students acquire a broad understanding of survey of Wyoming focusing on rock and fossil evidence for how Wyoming's landscape, geography, and climate have changed through time from early Earth history to the present. For the non-geologist. Optional Saturday field trip. (1 hr lec)

GEOL-2325 Dinosaurs of Wyoming (2)

Designed to familiarize students with dinosaurs that once inhabited Wyoming and other western states. Explores the paleontological research in and near Wyoming, dinosaur taxonomy, the Mesozoic environment, theories concerning lifestyles and extinction of dinosaurs, and the relationship of dinosaurs to the human race. Field trip required. (2 hrs lec)

GEOL-2385 Research in the Life and Physical Sciences (3)

Research in the Life and Physical Sciences offers students the opportunity to work with other students interested in science disciplines. Students will develop individual projects within their discipline, and with fellow students, exchange ideas, and develop an appreciation for the commonality between scientific disciplines and the role of science in society. Students will be expected to make a public presentation of their work. *Prerequisite:* Successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

GRAPHIC ARTS (GRAR)

GRAR-1510 Introduction to Graphic Arts (3)

A study of the basic principles and processes of the printing industry. Begins with an overview of the four major printing processes and uses a lecture/lab method of instruction to familiarize the student with layout and design, electronic publishing, camera, image assembly, platemaking, presswork, and bindery operations. (2 hrs lec, 2 hrs lab)

GRAR-1610 Offset Production I (3)

Students refine their skills with the process of offset lithography. Projects provide opportunities to apply their skills and understanding of image concept and design, image assembly, film conversion (including both process camera and imagesetter output), platemaking, duplicator presswork, and bindery operations. Course prepares students for GRAR 1620 where students may produce materials for NWC. (2 hrs lec, 2 hrs lab)

GRAR-1620 Offset Production II (4)

A continuation of GRAR 1610. Allows concentration in the following areas: art and copy preparation, process camera, image assembly, offset duplicator presswork, and bindery. Course stresses the production of quality materials. *Prerequisite:* GRAR 1610 and GRAR 1720. (2 hrs lec, 4 hrs arranged lab)

GRAR-1720 Imaging for Print Reproduction (3)

Students acquire essential information and experience to employ either photomechanical imaging or electronic digital imaging processes. Skills learned include graphic arts photography, some special effects camera work, photographic and digital halftoning, electronic scanning, PostScript via a film imagesetter, imaging applications, and production of color separations. *Prerequisite:* GRAR 1510. (3 hrs lec)

GRAR-1800 Introduction to Macintosh (3)

Course offers practice and useful experience on the Macintosh computer system. Provides a firm foundation in the basics of the Macintosh operating system and various word processing, graphics, and page layout program software. Encourages students to work on the Macintosh in areas of individual interest. Students gain a solid understanding of the Macintosh and related computer hardware. (3 hrs lec)

GRAR-1810 Electronic Publishing: PageMaker (3)

Students come to understand the impact of the microcomputer on the publishing industry. Students will use PageMaker 6.5, Adobe Table, Photoshop (scanning and file touch up), and a variety of peripherals including color scanners, color printers, and imagesetters. Projects enable students to explore various capabilities and reinforce concepts learned in lecture and demonstrations. (3 hrs lec)

GRAR-1820 Electronic Publishing: QuarkX-Press (3)

Students gain first-hand experience with current applications, techniques, and equipment used in the generation of type and images in the area of electronic publishing. Additional skill and knowledge is gained regarding QuarkXPress, font installation and management, building a type

library, typography, mark-up, methods to speed up design and productions work, preflighting for service bureaus and imagesetting to film. *Prerequisite:* GRAR 1510 and GRAR 1800. (3 hrs lec)

GRAR-1850 Advanced Electronic Publishing (3)

Advanced publishing procedures utilizing Adobe Photoshop and Luminous Trapwise computer applications. Explores digital image manipulation, scanning digital images and saving in appropriate file formats, manual and digital trapping techniques, and integration of multiple file formats into a single electronic graphics file. *Prerequisite:* GRAR 1510, GRAR 1800, and GRAR 1810. (3 hrs lec)

GRAR-1950 Preflighting/Image Assembly (3)

Students become familiar with preflighting electronic files for imagesetting and image assembly (stripping) techniques employed in today's prepress field. Discussions and activities will help students learn advanced stripping techniques, composite films, imposition considerations related to press and bindery, electronic imposition software, trapping software, and imagesetting. *Prerequisite:* GRAR 1510. (3 hrs lec)

GRAR-2650 Magazine Production (3)

A practical introduction to the design and production of a magazine. Includes critical examination of magazines from colleges, universities, and independent presses from throughout the nation. Culminates in a student-generated, student-edited, and student-published magazine. *Prerequisite:* Student must complete application for admission. (3 hrs lec)

GRAR-2710 Estimating (3)

Provides experience in estimating offset printed materials using pricing catalogs, computer estimation programs, and student developed BHRs (budgeted hourly rates) for various printing equipment and associated processes. Students analyze proposed print jobs to determine required operations and supplies, proper pricing routines, and estimate time needed for completion of each stage of the job. *Prerequisite:* GRAR 1620. (3 hrs lec)

GRAR-2750 Magazine Editing & Management (3)

Provides practical experience in editing and managing the production of a student magazine. Includes planning, decision-making, personnel management, and networking. *Prerequisite:* Student must complete application and interview for admission. Successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

GRAR-2810 Advanced Press (3)

Designed to give the student hands-on experience with a Heidelberg SORD offset press. Emphasizes inter-working and mechanics of the press, sheet control, signature printing, and the four-color process. *Prerequisite:* GRAR 1620 and consent of instructor. (6 hrs lab)

GREEK (GRK)

GRK-1015 Elementary Biblical Greek I (4)

Introduces the essentials of grammar and vocabulary necessary for reading Greek. Gives practice in read-

ing, understanding, writing, and pronouncing Greek. (4 hrs lec)

GRK-1025 Elementary Biblical Greek II (4)

Continuation of GRK 1015. *Prerequisite:* GRK 1015. (4 hrs lec)

GRK-2035 Intermediate Biblical Greek (4)

Readings in Biblical and Hellenistic Greek. *Prerequisite:* GRK 1025. (4 hrs lec)

GRK-2150 Selected Readings in Biblical Greek (1)

Designed for students who have completed at least GRK 1025 and would like to continue reading a variety of Greek texts on a regular basis. May be taken for credit even after completion of GRK 2035. Different Greek texts read each time the course is offered in order to avoid repetition. May be repeated once for credit. *Prerequisite:* GRK 1015 and GRK 1025 or equivalent. (1 hr lec)

HEBREW (HEBR)

HEBR-1010 First Year Hebrew I (4)

A brief course which provides the essentials for reading and translating Biblical Hebrew. Emphasizes fundamentals of grammar and reading. (4 hrs lec)

HEBR-1020 First Year Hebrew II (4)

A continuation of HEBR 1010. *Prerequisite:* HEBR 1010. (4 hrs lec)

HEBR-2030 Second Year Hebrew I (4)

Readings in Biblical and inscriptional Hebrew. Students read from the Hebrew Bible and ancient Hebrew inscriptions from the Biblical era. (4 hrs lec)

HEBR-2150 Selected Readings in Hebrew (1)

Designed for students who have completed HEBR 1020 and would like to continue reading a variety of Hebrew texts on a regular basis. Different Hebrew texts will be read each time the course is offered in order to avoid repetition. May be repeated once for credit. *Prerequisite:* HEBR 1020. (1 hr lec)

HISTORY (HIST)

HIST-1110 Western Civilization I (3)

A survey of Western Civilization that examines contributions of the Near East and Greece to Roman civilization as a foundation for the further study of the Byzantine, Islamic, Medieval and Early Modern Eras of the Euro-Mediterranean world, featuring a strong emphasis on the intellectual, religious, socio-economic and political history of the many peoples involved. (3 hrs lec)

HIST-1120 Western Civilization II (3)

A historical survey of Western Civilization from the Early Modern era in the Euro-Mediterranean region through the 20th Century, including the onset of colonialism, the rise of global empires, the emergence of the modern political and social ideologies, the impact of industrial and technologi-

cal transformation, the role of Europe's "outposts" such as the United States, Canada, and other former imperial possessions, as well as the major events of European significance like the French Revolution, revolutionary movements of the 19th century, the world wars, and the Cold War. Features strong emphasis on the intellectual, cultural or spiritual currents of all the peoples involved. (3 hrs lec)

HIST-1210 United States History I (3)

A foundation course for programs in American history. Surveys the history and culture of the United States from before discovery to approximately the time of the Civil War. Emphasizes the historical and constitutional roots of American values and beliefs. Along with HIST 1250, this course meets statutory requirements for instruction in principles and provisions of the constitutions of the U.S. and Wyoming. (3 hrs lec)

HIST-1221 The United States from 1865 (3)

Surveys American history from approximately the time of the Civil War to the present. Emphasis on the development of constitutional, socio-political, cultural, and economic factors that explain the emergence of the United States as a global power. Meets statutory requirements for instruction in principles and provisions of the constitutions of the United States and Wyoming. (3 hrs lec)

HIST-1229 History of Yellowstone (3)

Course examines the historical development of Yellowstone National Park from prehistoric times to the present. Students learn how Yellowstone's historical development paved the way towards the current issues it faces today. Students explore what makes Yellowstone unique as a national park and as an ecosystem. Examines how various people expressed their feelings towards Yellowstone through art, photography, and literature. (3 hrs lec)

HIST-1235 History and Geology of Yellowstone Area (3)

This course is an intensive, hands-on, mountain-site short course on the geology and history of Yellowstone National Park and surrounding areas and is intended primarily for K-12 teachers. (3 hrs lec)

HIST-1250 History of Wyoming (3)

The history and politics of a western state, exploring its physical environment, culture, constitution, and prospects from its beginning to the present. Along with HIST 1210, this course meets statutory requirements for instruction in principles and provisions of the constitutions of the United States and Wyoming. (3 hrs lec)

HIST-1280 History of Montana (3)

A survey of Montana history. Covers the development of the territory and state and examines the social, economic, cultural, and political patterns in its relations to the nation. (3 hrs lec)

HIST-1290 History of United States West (3)

A history of the changing frontier in the United States, its native peoples, and the westward movement of Americans from colonial times to the 20th

century. Special focus on the trans-Mississippi west, the role of physical geography, and the interaction of various cultures. (3 hrs lec)

HIST-2050 Introduction to Public History (3)

Introduces the student to the non-teaching, professional uses of history. Topics for consideration include archival preservation, museum management, public information, publications, historic site development, oral history, and historical programming. The class will also examine a variety of political, financial, and ethical issues that impact the interpretation of history to the general public. (3 hrs lec)

HIST-2070 The Holocaust: A Survey (3)

Examines the Nazi campaign to persecute and exterminate European Jews. Includes the broader dimensions of Nazi racial policies aimed at gypsies, Slavs, the disabled, and other groups. Explores the complicity of nations and governments throughout the world, as well as the verdicts at Nuremberg. Seeks to apply the lessons of the Holocaust to current discussions of intolerance, racism and genocide. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

HIST-2112 Revolutionary Europe (3)

Students analyze the major revolutionary movements and upheavals from the French Revolution of 1789 through the Russian, German, and Austrian Revolutions of 1917-19. *Prerequisite:* Completion of ENGL 1010 with a "C" or better. (3 hrs lec)

HIST-2115 20th Century Europe (3)

Social, economic, political, and intellectual history of Europe from the First World War to Gorbachev and the Soviet collapse, including the relationship of developments to physical, political, and cultural geography. *Prerequisite:* Completion of ENGL 1010 with a "C" or better. (3 hrs lec)

HIST-2120 Ancient Greece (3)

Study begins with prehistoric times, traces the rise of the Greeks, the Dark Ages, the Age of Expansion, the Classical Period, the Hellenistic Age, and the arrival of the Romans. Topics include language, literature, religion and mythology, athletics, warfare, law and democracy, theatre, education, science, philosophy, and political history. *Prerequisite:* English level 3 or consent of instructor. (3 hrs lec)

HIST-2130 Ancient Rome (3)

Students examine the Rise of the Roman State, the character of Roman culture and social development, as well as the impact of Roman imperialism on the Euro-Mediterranean World. Students also analyze the Roman decline and the extension of Rome's legacy into the Byzantine Era. *Prerequisite:* English level 3 or consent of instructor. (3 hrs lec)

HIST-2140 Ancient Near East (3)

Course encompasses the rise and development of civilization in Mesopotamia, Syria, Palestine, Anatolia, Egypt, and Arabia from prehistory to Alexander the Great. Topics include religion, literature, art, architecture, language, and political history. (3 hrs lec)

HIST-2149 Nuclear Century (3)

Students acquire an understanding and appreciation for the development of the nuclear energy and the social, psychological, political, and environmental issues associated with it. This course is team taught by a historian with a chemist or a physicist. Credit cannot be earned in both HIST 2149 and PHYS 2149 or CHEM 2149. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

HIST-2290 North American Indians (3)

Presents the history of North American Indians starting with the pre-Columbian era and tracing developments through the Colonial Period, the revolutionary independence struggles, and the problems of native people under national regimes through the 19th and 20th centuries. Special emphasis on the experiences of Indians in the United States and Canada, including cultures of the eastern woodlands, plains, Rocky Mountain and Pacific areas, and the Arctic. (3 hrs lec)

HIST-2420 History of Crime & Justice (3)

This course examines the historic evolution of American crime and the American justice system from the early Colonial Period through the Twenty-first Century. The course studies philosophical shifts in correctional strategies, criminal activities, and law enforcement techniques and their impact on crime and the American judicial system. Credit cannot be earned in both HIST 2420 and SOC 2420. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

HIST-2471 Internship: History (1-6)

Available to the serious student who desires to observe and participate in a demanding and rewarding professional off-campus experience. *Prerequisite:* Permission of the on-campus instructor. (1-6 hrs lec per credit hour)

HEALTH EDUCATION (HLED)

HLED-1005 Risky Behaviors (3)

Designed to increase a student's awareness of the social influence of drugs, alcohol, STDs, and sexual assault from a multi-disciplinary perspective (health, physiological, and sociological). Presents in logical form accurate, current information from the biological, health, and sociological sciences essential for making sound decisions regarding lifestyle choices. Course fulfills one credit of non-activity based wellness education or three credits of social science. This course is the same as SOC 1005. (3 hrs lec)

HLED-1006 Personal Health (3)

Presents in logical form a body of knowledge from biological and social sciences essential for sound decisions in health maintenance and a proper sense of health values. (3 hrs lec)

HLED-1225 Standard First Aid and CPR (2)

This course prepares students to cope when emergency care is needed. Studies accident prevention, examination procedures and first aid care for victims of accidents or sudden illness before medical assistance is available. Current Red Cross or

American Heart Association materials are used for First Aid and CPR, and upon successful completion of the course, students will receive either Red Cross or American Heart Association certification dependent on the certification credentials of the instructor. (Note: Certification information included in the semester class schedule.) (2 hrs lec)

HLED-1270 Wellness (3)

Explores the relationship between diet, exercise, and health in a lecture/lab format. A transdisciplinary approach emphasizing the integration of concepts and processes relevant to the pursuit of optimal well-being. (3 hrs lec)

HLED-1271 Diet and Exercise (2)

Introduces an understanding of basic nutrition and exercise facts relating to weight loss and fitness. Encourages development and use of a total physical fitness program. (2 hrs lec)

HLED-1660 Basic Emergency Care (3)

Students receive training in fundamentals of emergency care. This course follows the U.S. Department of Transportation (DOT) and advanced first aid outlines for the First Responder. This is an excellent course for students desiring to enter an Emergency Medical Technician Program. Students may not receive credit in both HLED 1660 and NRST 1660. (3 hrs lec)

HUMAN DEVELOPMENT

HMDV-1000 College Studies (1)

A suggested course for all new students. Students learn skills for success in college. Students practice study skills, determine their learning style, and become acquainted with services available at Northwest College. Also, students learn basic library research skills, how to use campus computers, and critical thinking skills. (1 hr lec)

HMDV-1010 College Studies II (1)

Students refine and expand skills for success in college. Skills include time management, interpersonal communication, relationship building, and academic and career planning. This course complements HMDV 1000 and offers a student study-skills help for an entire semester. (1 hr lec)

HMDV-1200 Academic & Career Orientation (1)

Designed to assist students in determining strengths, abilities, interests, personality type, and values in relation to making mature and realistic career decisions. Involves individual counseling to aid in setting personal, educational, and vocational goals. (1 hr lec)

HMDV-2000 Tutor Training (1)

A recommended course for student tutors and students planning to tutor in the Student Success Center. Successful completion of the course allows the student to become eligible for Tutor Certification through the College Reading and Learning Association. *Prerequisite:* Consent of instructor. (1 hr lec)

HORTICULTURE (HORT)

HORT-1100 Introduction to Horticulture (3)

Exposes the student to the far-reaching aspects of horticulture and provides a working knowledge of the basic principles of horticultural practices. (3 hrs lec)

HORT-1150 Plant Propagation (3)

Provides general information pertaining to the types of propagation, equipment, and supplies. Covers propagation of horticultural plants including grafting, cutting, bulb division, and direct seeding. *Prerequisite:* BIOL 1010 and HORT 1100. (2 hrs lec, 2 hrs lab)

HORT-1550 Plant Materials (3)

Selection of plant material in the landscape including the identification, physical characteristics, habitat requirements, maintenance characteristics, and ornamental value of trees, shrubs, and flowers. Emphasis on plants adaptive to the Big Horn Basin. (2 hrs lec, 2 hrs lab)

HORT-1600 Special Applications: (1-3)

Course addresses a diversity of subjects within the field of horticulture. Areas of emphasis vary and may be selected from topics of interest to practitioners within the field or to new and evolving issues. Utilizes lecture, lab, and seminar format for student instruction. Course may be repeated using different topic titles. (1 hr lec, 4 hrs lab for 3 hr course)

HUMANITIES (HUMN)

HUMN-2030 Introduction to Folklore (3)

Surveys the areas of folklore and studies folklore's importance to history, literature, and everyday life. Credit cannot be earned in both ENGL 2400 and HUMN 2030. (3 hrs lec)

HUMN-2360 "Born to Lose": The Cultural Narrative of Country Music (3)

In this team-taught course, students examine American culture through the lens of country music. Course surveys country music history from its roots to the present by examining recordings and music videos, attending concerts, reading and discussing essays, presenting reviews, and synthesizing material in written reviews, essays, and final projects. This course is the same as MUSC 2360. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

HUMN-2380 Popular Culture (3)

A study of film, music, print and broadcast media, and other forms of popular cultural expression. Emphasizes popular arts of the last two centuries, especially in the United States. Discusses distinctions between popular and "elite" arts and explores rationales and critical bases for the study of popular culture. (3 hrs lec)

HUMN-2385 Cyberculture-Cultural Impact of Information Technology (3)

Surveys the impact of information technology upon American society by examining the ways in which the Internet and other communication technologies are changing our sense of culture--our definition of

self in relation to others; our sense of community (shared history, interest, values, and goals); our pursuit of intellectual inquiry; and our perception of the workplace. An online capstone course. Successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

HUMN-2420 Introduction to Cross-Cultural Study (3)

An interdisciplinary course that draws upon the humanities, the arts, the social sciences, and personal experience to illustrate cultural diversity throughout the world and to explore processes of international communication. (3 hrs lec)

HUMN-2440 Dialogues in the Humanities (3)

Through interdisciplinary methods, students compare defining moments in human experience. Students examine how particular individuals and cultures redefine and express recurrent historical themes. Students integrate multiple disciplinary methods as a way of exploring traditional concerns in the humanities. Themes will vary from semester to semester. *Prerequisite:* Successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

HUMN-2445 US Culture and Language for Foreign Students (3)

Designed to give English speaking and listening experience to beginning students whose first language is not English. Course content surveys United States values and behaviors and their sources. *Prerequisite:* 500 TOEFL score. (3 hrs lec)

HUMN-2450 Introduction to Film (3)

Introduces the study of film as a modern form of art, providing an historical overview of themes and techniques. Examines cinema as an expression of both personal and social values. (3 hrs lec)

HUMN-2460 Humanities Field Studies: (1-3)

Course offers students the opportunity to travel to various destinations (i.e., Great Britain, Hawaii, etc.) to explore the cultures of those sites. The on-campus portion of the course focuses on the destination's history, culture, and travel peculiarities. *Prerequisite:* Consent of instructor. (1 hr lec, 4 hrs lab)

INFORMATION MANAGEMENT (IMGT)

IMGT-2400 Introduction to Information Management (3)

Concerned with the role of information systems in managing organizations to make them more competitive and efficient. Specific topics include organizational and technical foundation of information systems and building and managing systems. *Prerequisite:* Successful completion of 30 credit hours. (2 hrs lec)

JOURNALISM (JOUR)

JOUR-1000 Introduction to Mass Media (3)

An overview of mass media, newspapers, magazines, books, radio, television, and films. A study

of their historical development with emphasis on understanding the techniques of expression and impact on American culture. A survey of the content of mass media and consideration of contemporary problems and trends.
(3 hrs lec)

JOUR-1010 Publications Production I (1-2)
Consists of production of the campus newspaper. Class members given staff positions on the basis of application and experience. May be repeated once for credit.
(2-4 hrs lab)

JOUR-1020 Webcasting Practicum I (1-2)
Students acquire webcasting skills through producing and maintaining a campus news Web site that uses text, photographs, audio and video components as well as animation and multimedia elements. Class members staff an online campus radio and TV station for webcasting, including live coverage of campus events. Class members are given staff positions on the basis of application and experience.
(2-4 hrs lab)

JOUR-1100 Reporting and Newswriting I (3)
Covers writing hard news stories with emphasis on news sources, news gathering techniques, and in-depth reporting.
(3 hrs lec)

JOUR-1220 Introductory Digital Video (3)
This class provides an introduction to the use of video camcorders and digital video editing. Students will learn about basic use of the camcorder, taping techniques, composition, lighting, audio and how to edit tapes using introductory editing software.
(3 hrs lec)

JOUR-1240 Agriculture Communications Practicum (2)
This class provides participants with a hands-on learning experience in communicating agriculture issues and information through radio, television, Web print and media.
(2 hrs lab)

JOUR-2000 Broadcast Production (3)
Students acquire an introduction to fundamental technical production concepts in radio, television, and motion pictures. Students learn video and audio production techniques, including handling digital video cameras; lighting; sound; basic announcing; pre-production planning; set construction; production of music, radio drama, news, sports, public affairs, and related programming; and editing and effects using non-linear computer editing systems and related software. Students will produce projects for webcasting. *Prerequisite:* JOUR 1100.
(3 hrs lec)

JOUR-2010 Publications Production II (1-2)
Students refine newspaper production skills through production of the campus newspaper. Class members are given staff positions on the basis of application and experience. *Prerequisite:* JOUR 1010.
(2-4 hrs lab)

JOUR-2020 Webcasting Practicum II (1-2)
Students produce campus news Web sites using text, photographs, audio and video components, as well as animation and multimedia elements.

Class members staff an on-line campus radio and TV station for webcasting including live coverage of campus events. Class members are given staff positions on the basis of application and experience. *Prerequisite:* JOUR 1020
(2-4 hrs lab)

JOUR-2100 Reporting and Newswriting II (3)
Intermediate newswriting, applying skills learned in JOUR 1100. Special emphasis on public affairs reporting. *Prerequisite:* JOUR 1100.
(3 hrs lec)

JOUR-2140 News Editing (3)
An advanced course concerned with evaluation and preparation of news for placement on page makeup, headline writing, and actual makeup of dummy pages. Covers correct procedure for checking and correcting final page proofs. (3 hrs lec)

JOUR-2250 Magazine Production (3)
A practical introduction to the design and production of a magazine. Includes critical examination of magazines from colleges, universities, and independent presses from throughout the nation. Culminates in a student-generated, student-edited, and student-published magazine. *Prerequisite:* Student must complete application for admission.
(3 hrs lec)

JOUR-2270 Magazine Editing & Management (3)
Provides practical experience in editing and managing the production of a student magazine. Includes planning, decision making, personnel management, and networking. *Prerequisite:* Student must complete application and interview for admission. Successful completion of at least 30 credit hours.
(3 hrs lec) *Capstone Course*

JOUR-2320 Publications Production for High School Advisors (3)
This course centers on publication of a newspaper during the week of the Journalism Jump Start summer workshop. We will also work with video and audio production.
(6 hrs lab)

KINESIOLOGY – (KIN)

KIN-1035 Introduction to Sports Medicine and Related Careers (3)
Students explore a wide variety of sports careers, including physical therapist, chiropractor, orthopedist, massage therapist, athletic trainer, EMT/paramedic, etc. Students hear from a variety of professionals in the field and will understand the inter-professional relationships in preventing injuries and caring for athletes. In the course of their study, students also learn common sports injuries, how to prevent them, and initial treatment.
(3 hrs lec)

KIN-1052 Prevention of Athletic Injuries (3)
The purpose of this course is to provide the prospective athletic trainer with the skill and knowledge necessary to implement a risk management and preventative program for athletes and others involved in physical activity. *Prerequisite:* Consent of Instructor.
(3 hrs lec)

KIN-1058 Emergency Management of Athletic Injury and Illness (3)
The purpose of this course is to provide the prospective athletic trainer with the skill and knowledge necessary to provide for emergency care, triage, and management of emergencies and life-threatening situations for the physically active. *Prerequisite:* KIN 1052.
(3 hrs lec)

KIN-2057 Assessment and Evaluation of Athletic Injury/Illness I (3)
The purpose of this course is to provide the prospective athletic trainer with the knowledge and skill necessary to evaluate and recognize upper extremity, cervical spine and head injuries that occur to the athlete and the physically active. *Prerequisite:* KIN 1052 and KIN 1058.
(3 hrs lec, add'l lab hrs arr.)

KIN-2058 Assessment and Evaluation of Athletic Injuries/Illness (3)
The purpose of this course is to provide the prospective athletic trainer with the knowledge and skill necessary to evaluate and recognize lower extremity and spine injuries that occur to the athlete and the physically active. *Prerequisite:* KIN 2057 and KIN 2068, and successful completion of at least 30 credit hours.
(3 hrs lec, add'l lab hrs arr.) *Capstone Course*

KIN-2068 Athletic Training Clinical I (1)
Provides clinical and field experience for the athletic training student. Skills and knowledge learned in KIN 1052 and 1058 are applied in the clinical and field setting. *Prerequisite:* KIN 1052 and KIN 1058.
(3 hrs clinical)

KIN-2078 Athletic Training Clinical II (1)
Provides clinical and field experience for the athletic training student. Skills and knowledge learned in KIN 1052, KIN 1058, and KIN 2057 are applied in the clinical and field setting. *Prerequisite:* KIN 2057 and KIN 2068.
(3 hrs clinical)

LIBRARY SCIENCE (LIBS)

LIBS-2280 Literature for Children (3)
Surveys children's literature for concentrations in elementary education, library science, and other disciplines interested in evaluating and using children's books according to needs, interests, and abilities of children.
(3 hrs lec)

MATHEMATICS (MATH)

MATH-0900 Prealgebra (3)
A course in basic skills including addition, subtraction, multiplication, division of whole numbers, fractions, decimals, averages, exponents and roots, percentages, ratios and proportions, and basic algebra.
(3 hrs lec)

MATH-0920 Beginning Algebra (5)
Designed to provide a comprehensive review of the basic operations of algebra. Covers such topics as signed numbers, laws of exponents, linear equations, and quadratic equations. *Prerequisite:* A grade of "C-" or better in MATH 0900 or placement

at math level 1 within one year prior to enrollment. (5 hrs lec)

MATH-0930 Intermediate Algebra (5)

Emphasis on algebraic manipulation. Covers such topics as linear and quadratic equations and inequalities; graphs and functions; polynomial, rational, and radical expressions; logarithms, and exponentials. *Prerequisite:* A grade of “C-” or better in MATH 0920 or placement at math level 2 within one year prior to enrollment. (5 hrs lec)

MATH-1000 Problem Solving (3)

Designed to acquaint the student with the usefulness of mathematics. Accomplished by an in-depth exploration of a variety of applied problems and the methods, models, and strategies used to solve them. Primarily for students who do not intend to take calculus. *Prerequisite:* A grade of “C-” or better in MATH 0930 or placement at math level 3 within one year prior to enrollment. (3 hrs lec)

MATH-1050 Finite Mathematics (3)

Designed for business, social science, and behavioral science students. Introduces the student to sets, logic, probability, matrices, and linear programming. Stresses applications to the disciplines mentioned. *Prerequisite:* A grade of “C-” or better in MATH 0930 or placement at math level 3 within one year prior to enrollment. (3 hrs lec)

MATH-1100 Theory of Arithmetic I (3)

Designed primarily for prospective elementary teachers. Students acquire conceptual background for the operations and algorithms of arithmetic. Includes study of whole numbers, rational numbers, integers, and real numbers. Logic and problem solving skills incorporated throughout. *Prerequisite:* A grade of “C-” or better in MATH 0930 or placement at math level 3 within one year prior to enrollment. (3 hrs lec)

MATH-1105 Theory of Arithmetic II (3)

A continuation of MATH 1100 presenting an exploration of various aspects of mathematics including algebra, geometry, statistics, and probability. *Prerequisite:* A grade of “C-” or better in MATH 1100. (3 hrs lec)

MATH-1400 College Algebra (4)

Course covers functions, matrices, polynomials, logarithms, conic sections, counting, probability, and series. Credit cannot be earned in both MATH 1400 and MATH 1450. *Prerequisite:* A grade of “C-” or better in MATH 0930 or placement at math level 3 within one year prior to enrollment. (4 hrs lec)

MATH-1405 Precalculus Trigonometry (3)

Course uses the functional approach to trigonometry and covers computation, applications, identities, inverse functions, complex numbers, and the analytic geometry of trigonometric functions. Credit cannot be earned in both MATH 1405 and MATH 1450. *Prerequisite:* A grade of “C-” or better in MATH 1400 or placement at math level 4 within one year prior to enrollment. (3 hrs lec)

MATH-1450 Precalculus Algebra and Trigonometry (5)

Designed primarily for those students intending

to take the MATH 2200-MATH 2210 sequence.

This course covers the topics from college algebra and precalculus trigonometry in one semester. Student cannot receive credit in both MATH 1450 and MATH 1400 or both MATH 1450 and MATH 1405. *Prerequisite:* A grade of “C-” or better in MATH 0930 or placement at math level 3 within one year prior to enrollment. (5 hrs lec)

MATH-1510 Technical Mathematics I (3)

A comprehensive review of mathematic fundamentals and applications of algebra and trigonometry to technology. Does not fulfill the mathematics requirement for the AA and AS degrees. *Prerequisite:* A grade of “C-” or better in MATH 0900 or placement at math level 1 within one year prior to enrollment. (3 hrs lec)

MATH-2200 Calculus I (5)

Introduces the calculus and analytic geometry of algebraic functions of one variable. The first semester of a three-semester sequence course. *Prerequisite:* A grade of “C-” or better in MATH 1405 or MATH 1450 or placement at math level 5 within one year prior to enrollment. (5 hrs lec)

MATH-2205 Calculus II (5)

The second of three courses in the calculus sequence. Covers the calculus of transcendental functions, techniques of integration, and isolated topics which may include infinite series, analytic geometry, indeterminate forms, and polar coordinates. *Prerequisite:* A grade of “C-” or better in MATH 2200 or equivalent. (5 hrs lec)

MATH-2210 Calculus III (5)

The last of three courses in the calculus sequence. Covers vectors, functions of two or more variables, and any of the topics not covered in MATH 2205. *Prerequisite:* A grade of “C-” or better in MATH 2205. (5 hrs lec)

MATH-2250 Elementary Linear Algebra (3)

A theory course which introduces the algebra of matrices followed by a study of vector spaces. *Prerequisite:* A grade of “C-” or better in MATH 2210. (3 hrs lec)

MATH-2300 Discrete Structures (3)

An introductory course covering the mathematics most used in the analysis of algorithms. Logic and proof covered with some emphasis on proof by induction. Counting, combinatorics, probability, relations, discrete functions, and Boolean algebras with applications to switching circuits covered. Graph theory, machine arithmetic, and finite differencing techniques also introduced. *Prerequisite:* A grade of “C-” or better in MATH 2200 or MATH 2350. (3 hrs lec)

MATH-2310 Applied Differential Equations I (3)

Students show mastery of solutions and applications of ordinary differential equations including a brief look at Laplace transforms. Students complete their understanding by completing a group project and presenting their results to Physical Science Division faculty. For students specializing in Engineering, Physical Science, and Mathematics. *Prerequisite:* A grade of “C-” or better in MATH 2205 and successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

MATH-2345 Survey of Calculus (5)

Students develop introductory level tools to apply calculus to the sciences. Students address limits, derivatives, and integrals of functions of one or more variables with applications throughout. Students may not receive credit in both MATH 2350 and MATH 2351 or MATH 2200. *Prerequisite:* A grade of “C-” or better in MATH 1400, or MATH 1450, or placement at math level 4 within one year prior to enrollment. (5 hrs lec)

MATH-2350 Business Calculus (5)

Students develop introductory level tools to apply calculus to business. Students address limits, derivatives, and integrals of functions of one or more variables with applications throughout. Students may not receive credit in both MATH 2350 and MATH 2200. *Prerequisite:* A grade of “C-” or better in MATH 1400, or MATH 1450 or placement at math level 4 within one year prior to enrollment. (5 hrs lec)

MATH-2355 Mathematical Applications for Business (4)

Students develop more advanced mastery of business and economic applications of mathematics based on techniques covered in MATH 2350. Students work with linear equations and programming, probability and statistics, Markov processes and game theory, plus complete a mandatory computer-based spreadsheet component. Student cannot receive credit for both MATH 1050 and MATH 2355. *Prerequisite:* A grade of “C-” or better in MATH 2350. (4 hrs lec)

MATH-2385 Research in the Life and Physical Sciences (3)

Research in the Life and Physical Sciences offers students the opportunity to work with other students interested in science disciplines. Students will develop individual projects within their discipline, and with fellow students, exchange ideas, and develop an appreciation for the commonality between scientific disciplines and the role of science in society. Students will be expected to make a public presentation of their work. *Prerequisite:* Successful completion of at least 30 credit hours. (3 hrs lec) *Capstone Course*

MANAGEMENT (MGT)

MGT-1000 Introduction to Supervision (3)

Students acquire knowledge and skills used in supervision, organization, time management, decision-making, and information management. Students work with practical applications that reinforce the theory. Through comprehensive cases and illustrations, students examine the interrelationship of key supervisory management principles. (3 hrs lec)

MGT-2100 Principles of Management (3)

Covers objectives, planning, organization of resources, human relations, coping with change and conflict, and controlling as management responsibilities. Includes appropriate behavioral and management science applications to the management process. *Prerequisite:* BADM 1000 or six hours of business-related courses. (3 hrs lec)

MGT-2470 Internship: Management (3)

Students acquire management experience through internships with businesses in the Big Horn Basin. Students receive guidance from college and internship-site supervisors plus receive a structured assessment of their work performance. Designed for students in the last semester of the management program. **Prerequisite:** Recommended enrollment in MGT 2100 or MKT 2100 and successful completion of at least 30 credit hours. (1 hr lec, 6 hrs lab)

MARKETING (MKT)**MKT-1000 Sales (3)**

Covers fundamentals of selling, emphasizing the sales agent's personal responsibilities and obligations to a company and its customers. (3 hrs lec)

MKT-1300 Advertising (3)

An introduction to the role and use of advertising. Basic processes of planning, implementing, and controlling the advertising effort studied. Consumer analysis, promotional objectives, media selection, and evaluation represent major areas of study. (3 hrs lec)

MKT-2100 Principles of Marketing (3)

Covers management's role in product planning, pricing, distribution, and promotion of goods and services. Emphasizes the application of the marketing concept in current business practices. **Prerequisite:** BADM 1000 or six hours of business-related courses. (3 hrs lec)

MOLECULAR BIOLOGY (MOLB)**MOLB-2210 General Microbiology (4)**

A study of bacteria, fungi, parasites and viruses; their morphology, physiology, classification, isolation, and sterilization. **Prerequisite:** BIOL 1010 and CHEM 1000. (3 hrs lec, 3 hrs lab)

MUSIC (MUSC)**MUSC-1000 Introduction to Music (3)**

An examination of musical style elements for aesthetic, expressive, and cultural meanings. Many styles of music will be heard and analyzed, with emphasis on classic selections. Develops informed, perceptive listeners. (3 hrs lec)

MUSC-1010 Theory Fundamentals of Non-Majors(2)

Learning to read music. Includes notes, rhythms, scales, intervals, triads, basic piano keyboard acquaintance, and simple performance. Does not require prior experience in music reading. Prepares the inexperienced student for MUSC 1030. (2 hrs lec)

MUSC-1030 Written Theory I (3)

A study of diatonic harmony and melody. Utilizing a computer, this course emphasizes scales, intervals, keys, triads, melodic organization, and four-part chorale writing. Involves analysis, com-

posing melodies, and harmonizing with primary and secondary triads. (3 hrs lec)

MUSC-1035 Aural Theory I (1)

Ear training through diatonic sight singing of melodies, scales and intervals, and melodic and rhythmic dictation. Involves learning of moveable do solfege and basic conducting patterns. Should be taken in conjunction with MUSC 1030. (2 hrs lec)

MUSC-1040 Written Theory II (3)

Involves further study of diatonic harmony and melody. Utilizing a computer, this course emphasizes style analysis, dominant and non-dominant seventh chords, modulation, two- and three-part form, and introduction to popular harmonic notation. Takes a student through the classical period of harmony. **Prerequisite:** MUSC 1030. (3 hrs lec)

MUSC-1045 Aural Theory II (1)

Continuation of MUSC 1035 which includes do solfege, dictation, and conducting patterns. Introduction to keyboard harmony and harmonic dictation. **Prerequisite:** MUSC 1035. (2 hrs lec)

MUSC-1057 Introduction to Jazz (3)

A survey of American Jazz Music from the turn of the century to the present. Students become acquainted with basic jazz materials, styles, and the works of selected jazz Masters. (3 hrs lec)

MUSC-1080 Baritone Horn I (2)**MUSC-1090 Bassoon I (2)****MUSC-1100 Cello I (2)****MUSC-1110 Clarinet I (2)****MUSC-1120 Double Bass I (2)****MUSC-1130 Flute I (2)****MUSC-1140 French Horn I (2)****MUSC-1150 Guitar I (2)****MUSC-1152 Bass Guitar I (2)****MUSC-1170 Oboe I (2)****MUSC-1190 Percussion I (2)****MUSC-1191 Percussion/Mallets I (2)****MUSC-1195 Latin Percussion I (2)****MUSC-1200 Piano I (2)****MUSC-1210 Saxophone I (2)****MUSC-1220 Trombone I (2)****MUSC-1230 Trumpet I (2)****MUSC-1240 Tuba I (2)****MUSC-1250 Violin I (2)****MUSC-1260 Viola I (2)****MUSC-1270 Voice I (2)**

One private lesson in a specified area each week with a minimum preparation standard. Generally requires a recital performance and juries. Students specializing in music must be concurrently enrolled in MUSC 2455. May be repeated once for credit. (.5 hr lec, 5 hrs open lab)

MUSC-1290 Class Piano I (1)

Group instruction for the beginner at the keyboard. First semester of a four-semester sequence. Covers note reading, rhythm symbols, beginning major scales, and chord progressions. Develops finger control and hand independence. (2 hrs lab)

MUSC-1292 Class Guitar I (1)

Trains the inexperienced student to play song

accompaniments on the acoustic guitar. Stresses ability to read chord tablature, perform with a variety of strums, and finger-pick. Introduces bergh chords. (.5 hr lec, 1 hr lab)

MUSC-1295 Class Piano II (1)

Second semester continuation of skills acquired in MUSC 1290. Includes all major scales, prescribed chord progressions, harmonization, transposition, sightreading, and repertoire. **Prerequisite:** MUSC 1290 or successful completion of MUSC 1290 final exam requirements. (2 hrs lab)

MUSC-1305 Guitar for the Elementary Teacher (2)

This class is designed to give basic guitar skills to the elementary classroom teacher. The students will develop their guitar skills through the use of grade appropriate music provided by the instructor. These songs and related activities will enrich the classroom and support state curriculum guidelines. Students provide own guitar, but prior guitar skills are not necessary. This class is most beneficial to Wyoming certified teachers and current prospective teachers. (2 hrs lec)

MUSC-1310 Public School Music: Brass I (1)

Group instruction to prepare the student in the fundamentals of teaching brass instruments in a public school setting. Emphasizes performance, methods, and materials. (2 hrs lab)

MUSC-1325 Public School Music: Percussion (1)

Group instruction to prepare the student in the fundamentals of teaching percussion instruments in a public school setting. Emphasizes performance, methods, and materials. (2 hrs lab)

MUSC-1340 Public School Music: Voice I (1)

Studies fundamentals of vocal production, vocal literature, and its performance. For the student with little previous formal voice training. (2 hrs lab)

MUSC-1350 Public School Music: Woodwinds (1)

Group instruction to prepare the student in the fundamentals of teaching woodwind instruments in a public school setting. Emphasizes performance, methods, and materials. (2 hrs lab)

MUSC-1378 College Band (1)

Open to all students with experience on brass, woodwind, and percussion instruments. Ensemble performs standard wind band repertoire. Membership subject to director's approval. May be repeated three times for credit. (3 hrs lab)

MUSC-1379 College Band for Percussion (1)

An opportunity for percussion students to perform in a modern wind band setting. Students will be exposed to and have the opportunity to perform band literature that is historically important. May be repeated three times for credit. (2 hrs lab)

MUSC-1388 Jazz Combo I (1)

An ensemble which performs small group jazz music. Emphasis on ensemble playing and individual expression through improvisation. May be

repeated three times for credit. **Prerequisite:** Consent of instructor.
(2 hrs lab)

MUSC-1390 Jazz Ensemble I (1)

A 16-20 piece ensemble for brass, woodwind, and rhythm players. Open to all students interested in performing contemporary jazz band literature. Members of the Jazz Ensemble I who are specializing in music must be enrolled in another major ensemble. Members chosen by audition. May be repeated three times for credit.
(3 hrs lab)

MUSC-1400 Collegiate Chorale (1)

A non-auditioned choral performing ensemble open to all student members of the college community. The course goal involves individual vocal and musical growth in a group performance context. May be repeated three times for credit.
(2 hrs lab)

MUSC-1403 Vocal Jazz (1)

A vocal ensemble specializing in jazz and popular music performances, using a rhythm section as accompaniment. Members chosen by director's audition. May be repeated three times for credit.
(3 hrs lab)

MUSC-1404 Master Chorale (1)

An adult choral performance ensemble. Through weekly, evening rehearsals, this group prepares and performs choral masterworks often in partnership with the Northwest Civic Orchestra. One complete concert repertoire covered each semester. Open to all singers without audition. May be repeated three times for credit.
(2 hrs lab)

MUSC-1410 Vocal Ensemble (1)

A 12-16 member vocal ensemble using an integration of related arts (drama, dance, poetry, visual arts, etc.) in the performance of music from all periods and styles. Members chosen by audition. May be repeated three times for credit.
(3 hrs lab)

MUSC-1415 Introduction to Music Technology (2)

Students address fundamental acoustics and electronics specifically focusing on the design and applications of state-of-the-art sound reinforcement systems for public address, musical, and dramatic events. Skills are developed through theory and application discussion, as well as hands-on training with professional sound equipment.
(2 hrs lec, .5 arr lab)

MUSC-1430 Symphony Orchestra (1)

An organization open to community members and students with experience on strings, brass, woodwind, and percussion instruments. Membership by director's approval. May be repeated three times for credit.
(3 hrs lab)

MUSC-1435 Audio Recording (3)

Students develop basic understanding of recording principles and techniques. Students examine the principles of sound, the operation and maintenance of studio equipment, and the systems, operation, and protocol of the modern digital recording studio. With tape-based recording as a starting point, students progress through such subjects as mixers, multi-track recording, effects processors,

and microphones. **Prerequisite:** MUSC 1415.
(2 hrs lec, 2 hrs lab)

MUSC-1450 Percussion Ensemble (1)

Percussion ensembles offered depending on instrumentation and interest of students. May be repeated three times for credit. **Prerequisite:** Consent of instructor.
(2 hrs lab)

MUSC-1460 Brass Ensemble (1)

Brass ensembles offered depending on instrumentation and interest of students. May be repeated three times for credit. **Prerequisite:** Consent of instructor.
(2 hrs lab)

MUSC-1470 Woodwind Ensemble (1)

Woodwind ensembles offered depending on instrumentation and interest of students. May be repeated three times for credit. **Prerequisite:** Consent of instructor.
(2 hrs lab)

MUSC-2010 American Popular Music (3)

A survey of popular styles of music in America from 1900 to the present. Studies such musical developments as blues, ragtime, jazz, swing, folk, country, rhythm and blues, rock, hip hop, and other current styles. Emphasizes the music's multi-cultural roots as well as its historical development. **Prerequisite:** Successful completion of at least 30 credit hours.
(3 hrs lec) *Capstone Course*

MUSC-2030 Written Theory III (3)

A study of chromatic and contemporary harmonic concepts. Emphasis placed on the analysis of historical music and writing in contemporary styles. Students expected to develop and practice keyboard skills and use a computer for drill and composition. **Prerequisite:** MUSC 1030, MUSC 1040.
(3 hrs lec)

MUSC-2035 Aural Theory III (1)

Class participation in the skills of melodic, harmonic and rhythmic dictation, and sight singing in more chromatic styles. **Prerequisite:** MUSC 1045.
(2 hrs lec)

MUSC-2040 Written Theory IV (3)

A continuation of Written Theory III with additional study of counterpoint and writing in larger musical forms. **Prerequisite:** MUSC 2030 and successful completion of at least 30 credit hours.
(3 hrs lec)

MUSC-2045 Aural Theory IV (1)

Includes work in error detection and diatonic keyboard harmony. **Prerequisite:** MUSC 2035.
(2 hrs lec)

MUSC-2050 Music History Survey I (3)

The history and literature of music from ancient times to 1750. Traces the development of musical style in a historical context. In addition to a general overview of the literature, students analyze representative works of each style period.
(3 hrs lec)

MUSC-2055 Music History Survey II (3)

The history and literature of music from 1750 to the present. Students trace the development of musical style in a historical context. In addition

to completing a general overview of the literature, students analyze representative works of each style period. **Prerequisite:** Successful completion of at least 30 credit hours.
(3 hrs lec) *Capstone Course*

MUSC-2060 Jazz Improvisation I (1)

Introduction to the skills necessary to create and perform jazz solos involving simple to complex chord progression, harmonic structures, and rhythmic frameworks. **Prerequisite:** Consent of instructor.
(2 hrs lab)

MUSC-2065 Jazz Improvisation II (1)

Continuation of MUSC 2060. **Prerequisite:** Consent of instructor.
(2 hrs lab)

MUSC-2071 Applied Music: Vocal & Instrumental (2)

Private lessons in voice or instrument for students who have completed four semesters of study in voice or in one instrument. **Prerequisite:** Four semesters of previous applied study.
(.5 hr lec, 5 hrs open lab)

MUSC-2080 Baritone Horn II (2)

Prerequisite: MUSC 1080

MUSC-2090 Bassoon II (2)

Prerequisite: MUSC 1090

MUSC-2100 Cello II (2)

Prerequisite: MUSC 1100

MUSC-2110 Clarinet II (2)

Prerequisite: MUSC 1110

MUSC-2120 Double Bass II (2)

Prerequisite: MUSC 1120

MUSC-2130 Flute II (2)

Prerequisite: MUSC 1130

MUSC-2140 French Horn II (2)

Prerequisite: MUSC 1140

MUSC-2150 Guitar II (2)

Prerequisite: MUSC 1150

MUSC-2152 Bass Guitar II (2)

Prerequisite: MUSC 1152

MUSC-2170 Oboe II (2)

Prerequisite: MUSC 1170

MUSC-2190 Percussion II (2)

Prerequisite: MUSC 1190

MUSC-2191 Percussion/Mallets II (2)

Prerequisite: MUSC 2191

MUSC-2195 Latin Percussion II (2)

Prerequisite: MUSC 1195

MUSC-2200 Piano II (2)

Prerequisite: MUSC 1200

MUSC-2210 Saxophone II (2)

Prerequisite: MUSC 1210

MUSC-2220 Trombone II (2)

Prerequisite: MUSC 1220

MUSC-2230 Trumpet II (2)

Prerequisite: MUSC 1230

MUSC-2240 Tuba II (2)

Prerequisite: MUSC 1240

MUSC-2250 Violin II (2)

Prerequisite: MUSC 1250

MUSC-2260 Viola II (2)

Prerequisite: MUSC 1260

MUSC-2270 Voice II (2)

One private lesson in a specified area each week with a minimum preparation standard. Generally requires a recital performance and juries. Students specializing in music must be concurrently enrolled in MUSC 2455. May be repeated once for credit. **Prerequisite:** MUSC 1270 .
(.5 hr lec, 5 hrs open lab)

MUSC-2290 Class Piano III (1)

Third semester of a four-semester sequence. Develops further piano skills. Involves prescribed scales, harmonizations, chord progressions, transpositions, sightreading, and repertoire. **Prerequisite:** MUSC 1295 or successful completion of MUSC 1295 final exam requirements. (2 hrs lab)

MUSC-2292 Class Guitar II (1)

A more advanced course extending knowledge of open chords, bergh chords, and song accompaniments. Includes scales, arpeggios, blues progressions, lead patterns, and note reading. **Prerequisite:** MUSC 1292. (.5 hr lec, 1 hr lab)

MUSC-2295 Class Piano IV (1)

Final semester of a four-semester sequence. May include learning simple accompaniments. Designed to prepare the music major for piano proficiency exam upon transfer. **Prerequisite:** MUSC 2290 or successful completion of MUSC 2290 final exam requirements. May be repeated twice for credit. (2 hrs lab)

MUSC-2360 “Born to Lose”: The Cultural Narrative of Country Music (3)

In this team-taught course, students examine American culture through the lens of country music. Course surveys country music history from its roots to the present by examining recordings and music videos, attending concerts, reading and discussing essays, presenting reviews, and synthesizing material in written reviews, essays, and final projects. This course is the same as HUMN 2360. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

MUSC-2385 Theme House: Music (2)

An experience of living and working together in an intentional, musical community. Four to eight selected students live together at Trapper Village West working on service goals, practical teaching experiences, and group and individual musical expression. **Prerequisite:** Consent of instructor. (1 hr lec, 2 hrs lab)

MUSC-2435 Advanced Audio Recording (3)

Students advance their recording skills through a project-based curriculum. Students use the computer to create an integrated recording, editing, and mixing environment extending into the areas of digital mastering, signal processing, and post production. Students explore the compact disc as a presentation and archiving medium through the development of a personal CD project.

Prerequisite: MUSC 1415 and MUSC 1435, and successful completion of at least 30 credit hours. (2 hrs lec, 2 hrs lab) *Capstone Course*

MUSC-2440 MIDI (3)

Students learn the principles and techniques of MIDI (Musical Instrument Digital Interface) and its uses in music composition, recording, and arrangement. After exploring basic theory, Digital Audio Workstations are used so students develop familiarity with elements of computer MIDI technology as they relate to sequencing, sound synthesis, non-linear recording and editing, and computer mixing. Emphasis will be placed on post production practices in scoring (notation) and the

preparation of MIDI material for presentation on the World Wide Web. **Prerequisite:** MUSC 1415 and MUSC 1435. (2 hrs lec, 2 hrs lab)

MUSC-2455 Convocation

An opportunity for students involved in applied music to perform for each other in a formal recital setting. Usually meets once every two weeks. Must be taken concurrently with applied music lessons. (1 hr lab)

NURSING (NRST)**NRST-1000 Fundamentals of Nursing (3)**

The course introduces the student to basic concepts of nursing such as caring, documentation, and teaching/learning. The student gains an understanding of norms related to system assessment and client health status. The student is provided the theory, principles, and skills necessary to provide nursing care that will meet basic unmet needs of the client in the clinical setting. **Prerequisite:** Admission to the Nursing Program. (2.5 hrs lec, 1 hr lab)

NRST-1200 Medical Terminology (2)

Introduces the student to medical vocabulary and terminology. Stresses the use of prefixes, suffixes, word roots, and combined forms to give the student a working knowledge of medical terms. (1 hr lec)

NRST-1510 Nurse Assistant (4)

This course is designed to provide the student with the basic theory, principles, and skills necessary to provide basic patient care in the health care setting. The student will be introduced to medical terminology as well as the role of the nursing assistant in Home Health care. The student will be made aware of how the State and Federal laws as well as the policies and procedures of the institution govern the practice of the nursing assistant. Special emphasis is placed on the role of the nursing assistant in meeting the physical, psychosocial, mental, spiritual and cultural needs of the client/resident. (3 hrs lec, 3 hrs lab/clinical)

NRST-1540 The Culture of Professional Nursing (1)

This course introduces the student to the roles of the professional nurse. Topics studied include nursing history, nursing research, and nursing theory, and the role these areas of study play in contemporary nursing practice. The student explores the ethical/legal aspects of nursing as well as how culture, ethnicity, and spirituality influences health/wellness and illness across the life span. An integrated approach is used to introduce the student to critical thinking skills and the nursing process as fundamental tools in planning care and intervening to meet the basic unmet needs of the client. **Prerequisite:** Admission to the Nursing Program. (1 hr lec)

NRST-1580 Introduction to Medication Administration (2)

This course is designed to prepare nursing students to perform basic drug calculations and to administer medications by all routes, excluding intravenous administration, in a safe and competent manner following the six rights of medication

administration. The course begins with review of basic arithmetic principles and then builds upon these principles. The students will have the ability to convert between the metric, apothecary, and household systems of measurement. Calculation of dosages using the formula method, ration and proportion, and dimensional analysis will be used to determine medication dosages. Calculation for continuous IV therapy will also be addressed. **Prerequisite:** Admission to the Nursing Program. (1.5 hrs lec, 1 hr lab)

NRST-1630 Mental Health Nursing (2)

This course introduces the students to contemporary psychiatric and mental health nursing. Common theories related to psychiatric disorders will be discussed. Various treatment modalities will be explored. Students will apply the nursing process when planning care for the client with unmet psychosocial needs. **Prerequisite:** Successful completion of NRST 1000, NRST 1540, NRST 1580 and NRST 1710. (2 hrs lec)

NRST-1660 Basic Emergency Care (3)

Students receive training in fundamentals of emergency care. This course follows the U.S. Department of Transportation (DOT) and advanced first aid outlines for the First Responder. This is an excellent course for students desiring to enter an Emergency Medical Technician Program. Students may not receive credit in both NRST 1660 and HLED 1660. (3 hrs lec)

NRST-1700 Nursing Care of the Adult I (4)

This course provides the theoretical framework for care of the adult client with unmet needs related to chronic illness. The nursing process is used in the planning of care. The focus is on the physiological, psychosocial, spiritual, developmental, and cultural needs of the client. The students continually increase in their ability to think critically, communicate effectively, and act collaboratively. Introduces students to the theory and skills necessary to deliver intravenous therapy safely. **Prerequisite:** Successful completion of NRST 1000, NRST 1540, NRST 1580 and NRST 1710. (3.5 hrs lec, 1 hr lab)

NRST-1710 Clinical Experience I (2)

This clinical experience introduces students to the roles of the Associate Degree Nurse, namely Role as Provider of Care, Role as Manager of Care, and a Member of the Profession of Nursing. The students begin to use critical thinking as they apply the systematic stages of the nursing process to plan and provide safe, competent, and individualized care to treat client response to actual, unmet needs. The students begin to manage the care of one or two client(s) who have well-defined health problems. **Prerequisite:** Admission to the Nursing Program. (2 hrs clinical)

NRST-1720 Clinical Experience II (4)

This course provides students with the opportunity to apply theory and skills practiced in the laboratory setting to direct client care in the client care setting. The students increase in their ability to use critical thinking and assessment skills as they use the nursing process to plan and implement care for their assigned clients. The focus is on the unmet physiological, psychosocial, spiritual, developmental, and

cultural needs of clients experiencing alterations of mental health or a chronic disease process. **Prerequisite:** Successful completion of NRST 1000, NRST 1540, NRST 1580 and NRST 1710. (4 hrs clinical)

NRST-2500 Role Transition – PN to RN (2)

Designed to assist the Licensed Practical Nurse who will enter the second year of the nursing program by advanced placement. **Prerequisite:** Completion of admission criteria for advanced placement. (2 hrs lec)

NRST-2600 Nursing Care of the Adult II (3)

This course provides the theoretical framework needed for care of the adult client with unmet needs related to acute illness. The student continues to increase in their ability to think critically in planning care for clients with acute illness using the nursing process. The focus of care is on the physiological, psychosocial, spiritual, developmental, and cultural needs of the client. The students will obtain the knowledge and skills needed to administer IV medications safely. Taking NRST 2600, NRST 2620, and NRST 2730 is equivalent to taking NRST 2630. **Prerequisite:** Successful completion of NRST 1630, NRST 1700 and NRST 1720. (3 hrs lec)

NRST-2620 Maternal Child Nursing I (2)

This course introduces the student to the application of the nursing process in meeting the unmet needs of the child bearing family from ante-partum care through post-partum care. The focus is on the normal pregnancy and delivery. The student will develop an understanding of the health promotion within the context of normal human growth and development from newborn through adolescence. Taking NRST 2600, NRST 2620, and NRST 2730 is equivalent to taking NRST 2630. **Prerequisite:** Successful completion of NRST 1630, NRST 1700 and NRST 1720. (2 hrs lec)

NRST-2730 Clinical Experience III (5)

This course provides the students with the opportunity to apply theory to direct client care in the clinical setting. As the students continue to improve their critical thinking and assessment skills, there will be an increase in the students' ability to plan care using the nursing process. The focus is on the unmet physiological, psychosocial, spiritual, developmental, and cultural needs of the acute care client, the child bearing family, and the developing child. Taking NRST 2600, NRST 2620, and NRST 2730 is equivalent to taking NRST 2630. **Prerequisite:** Successful completion of NRST 1630, NRST 1700 and NRST 1720. (5 hrs clinical)

NRST-2740 Clinical Experience IV (5)

This course provides the students with the opportunity to apply theory to direct care of the client in the clinical setting. Students use their critical thinking and assessment skills to plan care, using the nursing process, for clients, families, groups, and the community. The students, under the direction of preceptors, assume the role of nurse manager in the clinical setting to prepare for their transition to the role of Registered Nurse. Taking NRST 2740, NRST 2750, NRST 2760, and NRST 2770 is equivalent to taking NRST 2640. **Pre-**

requisite: Successful completion of NRST 2600, NRST 2620 and NRST 2730. (5 hr clinical)

NRST-2750 Nursing in the Community (1)

This course provides an overview of community-based nursing practice. The focus is health promotion, risk reduction, and disease prevention when planning care for client, family, and groups. The students will explore community resources available as a part of assessing the needs of the community. Taking NRST 2740, NRST 2750, NRST 2760, and NRST 2770 is equivalent to taking NRST 2640. **Prerequisite:** Successful completion of NRST 2600, NRST 2620 and NRST 2730. (1 hr lec)

NRST-2760 Leadership Management (2)

This course introduces the students to principles and theories of leadership and management that will help prepare them to assume the roles as provider of care, manager of care, and member of the profession of nursing. Leadership/ management topics relating to communication with others, change, conflict resolution, delegation of care, and nursing care delivery systems will be covered. There is an in-depth discussion of nursing practice and the law. Current trends and issues in nursing will be explored. Taking NRST 2740, NRST 2750, NRST 2760, and NRST 2770 is equivalent to taking NRST 2640. **Prerequisite:** Successful completion of 30 credit hours and NRST 2600, NRST 2620, and NRST 2730. (2 hrs lec)

Capstone Course

NRST-2770 Maternal Child Nursing II (2)

This course provides the students with the theoretical framework needed for the care of the client and family experiencing complications of pregnancy, labor, delivery, and during the post-partum. It also provides the theoretical framework for the planning of care for the newborn at risk and the pediatric client experiencing illness. The students will use critical thinking skills while using the nursing process to plan care for these clients. The focus will be on the physical, psychological, sociocultural, and spiritual needs of the clients and families. Taking NRST 2740, NRST 2750, NRST 2760, and NRST 2770 is equivalent to taking NRST 2640. **Prerequisite:** NRST 2600, NRST 2620, and NRST 2730.

NRST-2810 Basic Coronary Care (2)

Provides instruction in basic electrocardiographic interpretation. Focuses on the recognition of basic cardiac rhythm disturbances, treatment, and nursing management. **Prerequisite:** ZOO 2010 and ZOO 2020. (2 hrs lec)

NRST-2820 Introduction to Pharmacology (2)

This course introduces the student to the concepts of basic pharmacology and the nursing management of drug therapy. It includes examination of the body systems and the related drug therapy within each system. It explores the basic drug groups, key similarities and differences among drugs in each group and the nursing care for each group utilizing the nursing process. Emphasis is placed on the mechanism of action for each group, its therapeutic use, adverse effects and dosages. **Prerequisite:** Successful completion of ZOO 2010 and ZOO 2020. (2 hrs lec)

OUTDOOR EDUCATION – ACTIVITY (OEAC)

OEAC-1100 Outdoor Living Skills: Desert (2)

Acquaints the student with safe and conservationally sound backpacking skills. Special emphasis on techniques adapted to the desert environment. Five days continuous. (1 hr lec, 2 hrs lab)

OEAC-1150 Outdoor Living Skills: Mountain (1)

Acquaints the student with safe and conservationally sound backpacking skills. Special emphasis on techniques adapted to the mountain environment. Five days continuous. (1 hr lec, 1 hr lab)

OEAC-1260 Challenge Course Team Building (.5) As a group, students learn the basics of teambuilding through the use of Adventure Games, Group Problem Solving Initiatives and Challenge Course Activities. (.5 lec, .5 lab)

OUTDOOR EDUCATION – PROFESSIONAL (OEPR)

OEPR-1100 Introduction to Adventure Education (2)

Students acquire training in the philosophy, skills, applications, and programming of Adventure Education. These concepts can be applied in various educational settings such as the public schools, institutions for special populations, corporate institutions, and organized camps. (2 hrs lec, .5 hr lab)

OEPR-1200 Winter Outdoor Survival (1)

Designed to prepare outdoorsmen and travelers for crisis situations that occur during winter. With preparedness as a primary goal, examines hazards of winter environment. Involves several evening lectures and two weekend excursions. (1 hr lec)

OEPR-1250 River Studies (2)

An interdisciplinary course combining instruction from areas of outdoor education and natural science. Through direct experience, students learn to guide a white water raft and gain an understanding of the riparian environment. Five days continuous. (2 hrs lec)

OEPR-1600 Basic Search and Rescue (3)

Students gain practical experience in personal preparedness, search and rescue equipment and technology, emergency response and packaging victims for transport in all types of settings, and search and rescue incident management. Includes practice in search techniques and technical rescue. This course is designed for the novice law enforcement officer, search and rescue responder, or wilderness medic. **Prerequisite:** Current First Aid and CPR Certificate or concurrent enrollment in HLED 1225. (2 hrs lec, 2 hrs lab)

OEPR-1620 Challenge Course Facilitation (2)

This course is designed to introduce students to the facilitation techniques, group dynamics, and leadership of the High Ropes Challenge Course.

Emphasis will be placed on setup, safety, rescue, maintenance, and design. *Prerequisite:* OEPR 1100.

(1 hr lec, 2 hrs lab)

OEPR-1720 Advanced Rock Climbing (2)

This course is designed to teach students proper Institutional Top-Rope Rock Climbing Site Management. Emphasis will be placed on anchor building, safety concerns and managing a group at a rock climbing area. *Prerequisite:* Successful completion of PEAC 1287.

(1 hr lec, 2 hrs lab)

OEPR-2100 Outdoor Education Practicum (2-4)

Students gain practical experience in one or more of the following: teaching outdoor pursuits, conducting adventure activities, leading expeditions, and managing adventure education resources. Students present course content in actual teaching settings and/or perform related educational functions. Includes lesson and program planning, evaluation, and outdoor leadership development.

Prerequisite: OEPR 2450 and successful completion of at least 30 credit hours.

(1 hr lec, 2-6 hrs lab)

Capstone Course

OEPR-2110 NOLS Rocky Mountain Outdoor Education (4)

The NOLS Rocky Mountain Outdoor Education course prepares graduates to demonstrate safe, competent, responsible, and ethical outdoor leadership skills. These skills include outdoor teaching techniques, wilderness camping and travel, safety management planning, expedition behavior modeling, providing effective oral and written feedback, and expedition planning. This course is taught by National Outdoor Leadership faculty and requires 21 continuous days in the field. Students must register both at Northwest College and at the National Outdoor Leadership School in Lander. This course is not approved as a wellness credit.

(2 hrs lec, 4 hrs lab)

OEPR-2200 Outdoor Programming and Administration (2)

This course is designed to introduce the policies and procedures of running an outdoor education/recreation program. Emphasis is placed on risk management, logistics, staffing, and program development. *Prerequisite:* Successful completion of at least 30 credit hours.

(2 hrs lec)

PHYSICAL EDUCATION – ACTIVITY (PEAC)

PEAC-1015 Beginning Scuba (1)

An introduction to the underwater world. Involves classroom and pool instruction. Special equipment usage fee required.

(1 hr lec, 1 hr lab)

PEAC-1030 Dance Aerobics (.5)

An exercise form designed to condition the cardiovascular and skeletal systems. Combines patterned routines and stretching to lively music.

(.5 hr lec, .5 hr lab)

PEAC-1037 Fitness Walking (.5)

Students will develop an understanding of equipment, technique and health issues associated with

walking. Students will develop a structured routine of walking for fitness. This course is designed to accommodate persons of advanced age and others with diverse abilities.

(.5 hr lec, .5 hr lab)

PEAC-1045 Kickboxing (.5)

Introduces a fitness program which combines basic low-impact aerobic moves with the fundamentals of self-defense and kickboxing. Emphasis is placed on correct technique and execution of all kickboxing basic moves. Designed to provide maximum cardiovascular benefits, muscular endurance, speed and agility, in addition to balance and flexibility and mind/body integration.

(.5 hr lec, .5 hr lab)

PEAC-1050 Beginning Tennis (.5)

Introduces techniques of grip, stance, footwork, service, strokes, volleys, lobs, and smashing. Emphasis on stroke combinations and return of service.

(.5 hr lec, .5 hr lab)

PEAC-1248 Beginning Soccer (.5)

Introduces skills of kicking, trapping, intercepting or blocking, passing, tackling, dribbling, shooting, and goalkeeping. Some emphasis on team strategy and officiating.

(.5 hr lec, .5 hr lab)

PEAC-1249 Beginning Squash (.5)

Introduces stroke mechanics, shot selection, defensive and offensive strategy, equipment, rules of play, and court safety. Some emphasis on tournament play.

(.5 hr lec, .5 hr lab)

PEAC-1253 Beginning Bowling (.5)

Introduces elements of stance, pushaway and delivery, back swing and follow through, ball types, spare shooting, and spot bowling. Some emphasis on scorekeeping.

(.5 hr lec, .5 hr lab)

PEAC-1254 Snowboarding (.5)

Introduces the basics of downhill running, correct posture and weighting, heel and toe turns, traversing, equipment selection, etiquette, and safety. Flexible format allows for instruction for a wide range of skill and ability.

(.5 hr lec, .5 hr lab)

PEAC-1255 Beginning Golf (.5)

Introduces elements of club selection, grip, stance, swing, shot types, difficult lies, golf rules, and etiquette. Emphasis is placed on the swing.

(.5 hr lec, .5 hr lab)

PEAC-1257 Beginning Racquetball (.5)

Introduces stroke mechanics, shot selection, defensive and offensive strategy, equipment, rules of play, and court safety. Some emphasis on tournament play.

(.5 hr lec, .5 hr lab)

PEAC-1258 Beginning Skiing (.5)

Introduces basic skills of downhill running, turning, traversing, climbing (side step and her-ringbone), equipment selection, and safety. Flexible format allows instruction for wide range of skill and ability.

(.5 hr lec, .5 hr lab)

PEAC-1259 Beginning Cross Country Skiing (.5)

Introduces fundamental strides, turning techniques, uphill and downhill skiing, equipment selection, and preparation and organization for light touring. Some emphasis on skating technique.

(.5 hr lec, .5 hr lab)

PEAC-1260 Beginning Volleyball (.5)

Introduces elements of passing, setting, offensive and defensive net play, serving, and game strategy. Some emphasis on hitting skills.

(.5 hr lec, .5 hr lab)

PEAC-1263 Beginning Basketball (.5)

Introduces fundamentals of ball handling, passing, shooting, offensive and defensive strategy, rebounding, and rules of play. Emphasis is on teamwork.

(.5 hr lec, .5 hr lab)

PEAC-1264 Beginning Softball (.5)

Introduces skills of throwing, catching, pitching, fielding, batting, base running, infield play, and offensive and defensive strategy. Some emphasis on rules of play and score keeping.

(.5 hr lec, .5 hr lab)

PEAC-1265 Floor Hockey (.5)

Introduces skills of passing, shooting, goalkeeping, advancing the puck, and strategies for offensive and defensive play. Some emphasis on officiating.

(.5 hr lec, .5 hr lab)

PEAC-1273 Weight Training/Conditioning (.5)

Introduces elements of grip, proper form and breathing, specific muscle group training, and circuit and strength training. Lifting technique emphasized.

(.5 hr lec, .5 hr lab)

PEAC-1278 Taekwondo I (.5)

A discipline in Korean martial arts emphasizing physical, mental, and character development of the individual. Course guides beginners through stretching exercises, basic stances and techniques, and introduces the history and philosophy of Taekwondo.

(.5 hr lec, .5 hr lab)

PEAC-1279 Taekwondo II (.5)

Continuation of PEAC 1278. Students learn more advanced Taekwondo techniques and methods to increase self-discipline and concentration. *Prerequisite:* PEAC 1278.

(.5 hr lec, .5 hr lab)

PEAC-1281 Beginning Casting and Angling (.5)

Introduces students to fly-fishing in one of the most outstanding settings for angling in the world. Combines lecture sessions with field trips to expose students to many facets of fly-fishing. Course explores this fascinating sport as an engrossing lifetime study.

(.5 hr lec, .5 hr lab)

PEAC-1285 Kayaking (.5)

Introduces fundamentals of paddling, rolling, outfitting, transporting, and safety for the slalom kayak. Rescue techniques are emphasized. *Prerequisite:* Intermediate swimming ability.

(.5 hr lec, .5 hr lab)

PEAC-1286 Spelunking (.5)

Introduces basic lighting and safety equipment, horizontal and vertical technique, and trip organi-

zation. Cave conservation emphasized.
(.5 hr lec, .5 hr lab)

PEAC-1287 Rock Climbing (.5)

Introduces climbing technique, equipment, history, and ethics. Emphasis on safety and rescue techniques.
(.5 hr lec, .5 hr lab)

PEAC-1288 Bicycle Touring (.5)

Introduces skills of riding, bicycle repair, equipment selection and use, camping, and group trip organization. Emphasis on safe riding technique.
(.5 hr lec, .5 hr lab)

PEAC-1289 Individual Fitness (.5)

Introduces concepts of strength, flexibility, and endurance, and their interrelationships with and contributions to physical fitness. Emphasis placed on fitness testing and variety of exercise modes available.
(.5 hr lec, .5 hr lab)

PEAC-1300 Social Dance (1)

Introduces western dances most commonly used in our society. Some emphasis on social skills, history, terminology, and performance.
(2 hrs lab)

PEAC-1330 Dance Ensemble (1)

A dance ensemble encompassing a diversity of dance styles. Repertoire includes a variety of ballet, modern, country, and specializing in pom-pom, jazz, and funk. Members perform at various athletic and civic events and present stage productions.
(2 hrs lab, additional time required for performance)

PEAC-1480 Jazz Dance I (1)

Introduces the basic principles and techniques of jazz dance. Develops fundamental movement skills and includes the history and development of jazz dance.
(2 hrs lab)

PEAC-1560 Beginning Orienteering (.5)

This course is designed to acquaint the student with the map and compass techniques including triangulation, contours, declination, bearings, and land navigation.
(.5 hr lec, .5 hr lab)

PEAC-1600 Ice Climbing (.5)

This course is designed to acquaint the student with the basic techniques, equipment and ethics of Technical Ice Climbing. The emphasis is on route selection, safety, and staying warm and comfortable in the cold environment.
(.5 hr lec, .5 hr lab)

PHYSICAL EDUCATION – VARSITY ATHLETICS (PEAT)

PEAT-1000 Varsity Sports: (1)

Represents active participation on an athletic varsity team, attendance at practice, and some independent study. One specific sport will be emphasized in each section of this class (i.e., basketball, volleyball, wrestling or rodeo).
(1 hr lec, 1 hr lab)

PEAT-1005 Varsity Sports: (1)

See PEAT 1000 for course description. Sophomore level.
(1 hr lec, 1 hr lab)

PEAT-1010 Cheerleading (1)

Develops and maintains school spirit and enthusiasm for collegiate athletic events. Focuses on a strong relationship with spectators. Addresses appropriate standards in the areas of management, education, instruction, and safety. *Prerequisite:* Successful audition.
(1 hr lec, 1 hr lab)

PHYSICAL EDUCATION – PROFESSIONAL (PEPR)

PEPR-1005 Introduction to Physical Education (2)

Provides prospective teachers with a general concept of the meaning and interpretation of physical education plus presents a description of what is involved in preparation for teaching in this field. Presents information pertaining to employment in physical education fields.
(2 hrs lec)

PEPR-1025 Movement Core II (2)

Students learn the skills and knowledge necessary to teach basic movement skills in physical education including fundamental locomotors, stability, and jumping skills with an emphasis on analysis of movement and utilization of the skills in sport development.
(2 hrs lec)

PEPR-1040 Sport First Aid (2)

Coaches develop knowledge and skills necessary to recognize common sport injuries and administer the appropriate sport first aid to the injured or ill athlete. Designed to meet Wyoming State Coaches certification requirements for sport first aid. Upon successful completion of the course, coaches will receive ASEP certification in Sport First Aid and also American Red Cross in both first aid and CPR.
(2 hrs lec)

PEPR-1052 Prevention of Athletic Injury/ Illness (2)

Designed to meet the Wyoming State Coaches Certification Requirement. Prepares coaches in the prevention, recognition, and care of athletic injuries.
(2 hrs lec)

PEPR-2000 Movement Core III (2)

Students develop the skills and knowledge necessary to teach basic movement skills in physical education. Level two focuses primarily on manipulative skills for hands and feet including throwing, catching, dribbling, volleying, trapping, kicking, and striking.
(2 hrs lec)

PEPR-2012 Physical Education for Elementary School (3)

Trains prospective elementary teachers to develop every child's need for strength, skills, health, and knowledge. Involves training with grade school children in the community.
(3 hrs lec)

PEPR-2050 Care and Prevention of Athletic Injuries (2)

Provides the prospective coach with the basic skills necessary to provide basic care for the injured athlete. Strongly emphasizes prevention, recognition, and care of athletic injuries, includ-

ing conditioning, wrapping, padding, taping, physicals, nutrition and other means. Designed to meet Wyoming State Certification requirements for coaches.
(2 hrs lec)

PEPR-2069 History & Philosophy of Sport (3)

Students develop a historical, philosophical, and global perspective of sport through the study of contributions from the Greeks, Romans, and other world cultures including the United States from the colonial period to the present. Class members also analyze the major contributions of important sports philosophers.
(3 hrs lec)

PEPR-2091 Rules & Techniques of Athletic Officiating I (2)

Studies officiating techniques, rules, and the role of the official. Involves practical officiating experience.
(2 hrs lec)

PEPR-2100 Theory of Coaching: (2)

Designed to meet the Wyoming State Coaches Certification Requirement. Prepares coaches in the fundamentals of coaching any sport.
(2 hrs lec)

PEPR-2110 Scientific Foundations of Athletic Coaching (2)

Studies coaching philosophy and objectives. Includes study of sports psychology, pedagogy, physiology, and management. Assists participants to develop coaching style and teaches successful coaching techniques.
(2 hrs lec)

PEPR-2200 Physical Education, Health and Coaching Practicum (2-4)

Non-teaching students acquire practical experience in physical education, health, or coaching. Students will be placed in coaching situations, after school programs, recreational sports, geriatric living centers, movement or dance academies or health facilities, depending on their individual area of emphasis. A preceptor will guide each student through the experience. Student learning will be assessed by an in-depth student portfolio, final oral presentation, and student's preceptor and on-campus instructor evaluations. *Prerequisite:* Successful completion of at least 30 credit hours.
(1 hr lec, 2 hrs lab per credit hour)

Capstone Course

PHILOSOPHY (PHIL)

PHIL-1000 Introduction to Philosophy (3)

Surveys methods and concerns expressed in the study and use of epistemology, ethics, metaphysics, and aesthetics. Provides philosophical answers to questions of how and what people can know about themselves and the world around them, and how they can solve problems, think creatively, and find meaning for their lives.
(3 hrs lec)

PHIL-2200 Social & Political Philosophy (3)

An examination of the answers philosophers give to questions about human nature, the rationales which can be developed for different kinds of government and societies, and the ways in which moral decisions are made. Concludes with a

survey of ethical issues confronting contemporary individuals and groups in America. (3 hrs lec)

PHIL-2311 Philosophy of Religion (3)

A comparison of the answers which the major religions of the world provide to metaphysical questions about the origin, destiny, and purpose of the earth and its inhabitants. Also examines the history, practices, and ethics of these religions. (3 hrs lec)

PHIL-2420 Logic I: Critical Thinking (3)

Introduces the student to rhetorical and scientific methods of critical thinking, definition, argument formulation, and logical analysis. Applications of logic and reasoning drawn from a wide variety of sources. (3 hrs lec)

PHOTOGRAPHIC COMMUNICATION (PHTO)

PHTO-1500 35mm Camera (1)

Introduces the beginning photographer to the operation of automatic and manual 35 mm cameras, as well as providing instruction in basic photographic techniques such as lighting, selection of film, and principles of composition. (1 hr lec)

PHTO-1510 35mm Images (1)

This course is designed to help students apply the techniques and knowledge gained in 35mm Camera. The same hands-on approach will be used. Students bring prints, negatives, and/or slides to class for viewing and critique of settings used, selection of subject matter, composition, and lighting. A final portfolio will be required. *Prerequisite:* PHTO 1500. (1 hr lec)

PHTO-1540 Beginning Digital Photography (3)

Introduces the beginning photographer to the basics of photography with emphasis on theories, tools and practices of digital imaging and the hardware and software used with this media. (3 hrs lec)

PHTO-1550 Outdoor Photography Seminar (2)

Emphasis on field photography. Lighting, composition, and technical aspects of outdoor and nature photography studied in intensive weekend format. Critique of student work and marketing information included. May be repeated once for credit. (1 hr lec, 2 hrs lab)

PHTO-1600 Survey of Photography (3)

An overview of photography from its early practitioners to contemporary photographers and the history of photographic processes. Utilizes a hands-on approach to learning and traditional academic methods. Studies the history of specific photographic eras, leading to participation in demonstrations of the creation of photographs using same or similar processes from that specific historical period. (3 hrs lec)

PHTO-1610 Introduction to Photography (4)

Designed as an introductory photography course offering practice and experience in mechanical and creative functions of the medium with emphasis on technical skills and procedures. Introduces

basic mechanical principles of the camera and darkroom, enforcing good habits as students learn film and print development techniques. Successful completion contributes to a strong foundation for further study in advanced photography courses. (2 hrs lec, 4 hrs lab)

PHTO-1630 View Camera & Basic Lighting (4)

Introduces the 4 x 5 view camera and skills to control proper perspective of the image and basic lighting. Explores the use of tools with studio assignments and proper exposure and developing techniques. Stresses creativity and expressive use of photographic instruments. Investigates current and historical trends in the imaging industry and issues of ethics in photography. *Prerequisite:* Completion of PHTO 1610 with a "C" or better. (2 hrs lec, 4 hrs lab)

PHTO-2165 Issues in Web Design (3)

Lectures, research, and discourse in designing for the web. Topics include planning, design principles, site architecture, site design, web typography, editorial style and references, color and graphic formats, multimedia applications, data-driven graphics, publishing, publicizing, and maintaining a website. Homework will include designing a web site which illustrates these concepts. This course will benefit anyone who currently produces web pages, from the dabbler to the professional. This course is the same as ART 2165. (3 hrs lec)

PHTO-2350 Media Photography (3)

Reviews the history of media photography and emphasizes intensive practical photographic experience utilizing a variety of news photographer techniques. Topics include advanced camera techniques, the photo essay, page layout, newspaper and magazine photojournalism styles, and current trends in digital media photography. *Prerequisite:* Completion of PHTO 1610 with "C" or better. (1 hr lec, 4 hrs lab)

PHTO-2385 Photography Theme House (2)

Theme House course participants will produce personal and/or group projects involving elements of public presentation and/or community service. *Prerequisite:* Successful completion of at least 15 credit hours and consent of instructor. (1 hr lec, 2 hrs lab)

PHTO-2450 Media Photography II (3)

Students acquire an in-depth, intensive, practical photographic experience and skills used by a range of publishing media such as newspapers, magazines, books, and the Web. As a primary emphasis of the class, students produce photographic stories as well as design story layouts. Students learn advanced camera techniques, including flash and use of color. Projects will provide practical and ethical approaches to spot news, sports, and current trends in digital media such as the World Wide Web and CD-ROM formats. *Prerequisite:* PHTO 2350. (1 hr lec, 4 hrs lab)

PHTO-2510 Studio Illustration I (3)

Develops knowledge and skills in producing creative images in the field of studio illustration. Places major emphasis on photographic styles and table top product work. Covers studio and color lab management as part of the interaction and insight a photographer must have to function in this environment. Discusses these topics with a

priority on business practices. *Prerequisite:* Completion of PHTO 1630 with a "C" or better. (1 hr lec, 4 hrs lab)

PHTO-2520 Studio Illustration II (3)

Students learn to approach, identify, and solve creative photographic problems for consumer advertising. Emphasis given to advanced techniques in lighting for food, still life, catalogs, and editorial illustrations. *Prerequisite:* Completion of PHTO 2510 with a "C" or better. (1 hr lec, 4 hrs lab)

PHTO-2610 Commercial Portrait I (3)

Introduces basic portrait techniques, both in the studio and in outdoor environmental settings. Students explore basic portraiture with emphasis in utilizing classical studio lighting techniques, subject communication skills, and posing and clothing choices for consumer portraiture. *Prerequisite:* Completion of PHTO 1630 with a "C" or better. (1 hr lec, 4 hrs lab)

PHTO-2620 Commercial Portrait II (3)

A continuation of Commercial Portrait I. Examines advanced posing and lighting techniques through studio and on-location portraiture. Students apply portrait techniques to special problems. *Prerequisite:* Completion of PHTO 2610 with a "C" or better. (1 hr lec, 4 hrs lab)

PHTO-2650 Digital Imaging I (3)

Course explores digital photography and creative computer enhancement of photographs through the use of the Macintosh computer and Adobe Photoshop software. Covers a variety of input devices including the digital camera and reflective and transmission scanners. Stresses digital darkroom techniques along with computerized retouching and enhancement of traditionally generated photographic prints. (3 hrs lec)

PHTO-2660 Web Page Design (3)

Students learn technical skills and procedures for Web page development and design with emphasis on advanced Photoshop and Go Live techniques. Students gain experience in developing images, sound, video, design, and graphics for a Web site on the Internet. *Prerequisite:* Completion of PHTO 2650 with a "C" or better. (3 hrs lec)

PHTO-2710 Professional Portfolio I (4)

An introduction to the photographic portfolio for the photography student. A survey of portfolios introduces the student to developing a personal portfolio needed for seeking employment. Photographic problems and assignments relative to student's experience. Photographic careers explored and discussed. Only for students seeking an AAS in Photographic Communication. *Prerequisite:* Completion of PHTO 1630 with a "C" or better and concurrent enrollment in PHTO 2510 and PHTO 2610. (2 hrs lec, 4 hrs lab)

PHTO-2720 Professional Portfolio II (4)

A continuation of Professional Portfolio I. Student learns independent production in a selected area of photographic interest. This selected interest represents the student's specialty in seeking employment. Only for students seeking an AAS in Photographic Communications. *Prerequisite:* Completion of

PHTO 2710 with a “C” or better, and successful completion of at least 30 credit hours.
(2 hrs lec, 4 hrs lab) *Capstone Course*

PHTO-2740 Digital Color Photography (3)

Students acquire knowledge and skills related to traditional color photography and digital photographic techniques. Projects will be photographed in color utilizing both color negative and positive film. The majority of assignments are photographed using traditional cameras and film, while most of the prints are made using computer and professional-level digital printers. Several assignments cover the tools and techniques used to create images for multimedia and the Web. Students learn historic processes plus color theory and technique. Creativity and an expressive use of color photography are stressed as well as proficiency in camera and digital color processes. *Prerequisite:* Completion of PHTO 2510 or PHTO 2610 with a “C” or better.
(3 hrs lec)

PHTO-2760 Introduction to Digital Multimedia (3)

Introduces the creation and application of multimedia. Course offers an overview of multimedia tools, terminology, and techniques for the development of interactive multimedia projects. Utilizes extensive hands-on experience using hardware and software to mold an idea into a well-thought-out interactive experience. *Prerequisite:* Completion of PHTO 2650 with a “C” or better.
(3 hrs lec)

PHTO-2960 Photo Field Studies: (2)

Students will have the opportunity for extensive travel, internationally or domestically, providing a view of travel photography through intensive study in the field. Creativity and expressive use of photographic tools will be stressed. *Prerequisite:* Consent of instructor.
(1 hr lec, 2 hrs lab)

PHYSICS (PHYS)

PHYS-1050 Concepts of Physics (4)

An introduction to the concepts of physics from a logical non-mathematical viewpoint. Credit cannot be earned in this course if credit has been earned in PHYS 1110 or PHYS 1310. *Prerequisite:* Placement at math level 2.
(3 hrs lec, 2 hrs lab)

PHYS-1090 Fundamentals of the Physical Universe (4)

Applies fundamental principles of chemistry and physics to real life situations. Designed primarily for elementary education students. *Prerequisite:* Placement at math level 3.
(3 hrs lec, 2 hrs lab)

PHYS-1110 General Physics I (4)

Introduces fundamental laws of mechanics, thermodynamics, and wave motion. Some attention to processes of scientific discovery. For science and non-science students seeking a background in physics. Credit cannot be earned in this course if credit has been earned in PHYS 1310. *Prerequisite:* Placement at math level 3.
(3 hrs lec, 3 hrs lab)

PHYS-1120 General Physics II (4)

Topics include electricity, magnetism, optics, light, relativity, and nuclear physics. A continuation of

PHYS 1110. *Prerequisite:* PHYS 1110.
(3 hrs lec, 3 hrs lab)

PHYS-1310 College Physics I (4)

For concentrations in physical sciences, math, or engineering. Introduces laws of mechanics and thermodynamics applied to physical problems with emphasis on theoretical development. Incorporates examples and topics from contemporary physics where appropriate. *Prerequisite:* MATH 2200.
(3 hrs lec, 3 hrs lab)

PHYS-1320 College Physics II (4)

Studies wave and oscillatory motion, simple harmonic motion, optics, electricity, and magnetism. *Prerequisite:* MATH 2200.
(3 hrs lec, 3 hrs lab)

PHYS-2149 Nuclear Century (3)

Students acquire an understanding and appreciation for the development of nuclear energy and the social, psychological, political, and environmental issues associated with it. This course is team taught by a historian with a chemist or a physicist. This course is the same as HIST 2149 and CHEM 2149. All students who satisfactorily complete this course receive Honors credit.
(3 hrs lec)

PHYS-2385 Research in the Life and Physical Sciences (3)

Research in the Life and Physical Sciences offers students the opportunity to work with other students interested in science disciplines. Students will develop individual projects within their discipline, and with fellow students, exchange ideas, and develop an appreciation for the commonality between scientific disciplines and the role of science in society. Students will be expected to make a public presentation of their work. *Prerequisite:* Successful completion of at least 30 credit hours.
(3 hrs lec) *Capstone Course*

POLITICAL SCIENCE (POLS)

POLS-1000 American & Wyoming Government (3)

An introductory course for political science programs. It meets statutory requirements for instruction in principles and provisions of the constitutions of the U.S. and Wyoming.
(3 hrs lec)

POLS-2000 Current Issues in American Government (3)

Reviews current policies and policy makers in American government. Makes a special effort to relate current political issues and government's attempt to deal with them. *Prerequisite:* POLS 1000 or HIST 1210.
(3 hrs lec)

POLS-2010 Comparative Government (3)

Surveys representative governing systems with selected foreign governments providing basis for course.
(3 hrs lec)

POLS-2120 Introduction to Criminal Justice (3)

An exploration of the police, courts, and correctional agencies that oversee American justice. Examines process and philosophies that underlie the establishment of the modern criminal justice system. Credit cannot be earned in both POLS

2120 and CRMJ 2120.
(3 hrs lec)

POLS-2210 Criminal Law (3)

A survey of the basic fundamental principles of American substantive criminal law. Topics include the nature and origin of criminal law, Constitutional limitations, criminal liability, criminal defenses and excuses, and exploration into the elements of criminal offenses. Credit cannot be earned in both POLS 2210 and CRMJ 2210.
(3 hrs lec)

POLS-2310 Introduction to International Relations (3)

Surveys contemporary relations between the nations of the world. Introduces basic principles and conventional tools for conducting relations between nations.
(3 hrs lec)

POLS-2410 Introduction to Public Administration (3)

Basic concepts and theories of administration emphasizing the actual working of the executive branch of governments. Provides an initial understanding of power relations within the bureaucracy and career opportunities in government administration. *Prerequisite:* POLS 1000 or HIST 1210.
(3 hrs lec)

POLS-2460 Introduction to Political Theory (3)

A survey of the history of western political thought including the study of concepts and approaches to political theory. *Prerequisite:* Successful completion of at least 30 credit hours.
(3 hours lec)

PSYCHOLOGY (PSYC)

PSYC-1000 General Psychology (4)

Introduces the principles of human behavior as related to biological, physiological, mental, learning, personality, and social factors in human development.
(4 hrs lec)

PSYC-1200 Human Development (3)

A study of human development from conception to death. Student examines changes in the human organism throughout the life span. Covers physical growth, changes in learning and cognitive processes, emotional and social development, and key decision points in human existence. *Prerequisite:* PSYC 1000.
(3 hrs lec)

PSYC-1250 Human Potential Seminar (1)

Focuses on personal clarification of values, goals, strengths, and potential of each participant through a structured group process.
(1 hr lec)

PSYC-2000 Research Psychological Methods (4)

A lecture and laboratory course introducing students to methods of investigating behavioral science questions. Students learn research strategies including observation, survey, program evaluation, and experimentation. Emphasizes experimental methods. A writing intensive course. *Prerequisite:* PSYC 1000, Completion of 10 hours in Psychology recommended, successful completion of at least 30 credit hours.
(3 hrs lec, 2 hrs lab) *Capstone Course*

PSYC-2080 Biological Psychology (3)

Introduces biological basis of behavior. Includes ethology and comparative behavior, psychobiological development, physiological and sensory mechanisms of behavior, and evolution and behavioral genetics. Presents basic structural and functional properties of the nervous systems. *Prerequisite:* 4 hours of biology recommended. (3 hrs lec)

PSYC-2200 Human Sexuality (3)

An interdisciplinary study of human sexuality from biological, sociological, and psychological perspectives. Examines research in sexuality; the sexual response cycle; variations of sexual identity; and the social, legal, and religious implications of sexuality. Involves students in questions of values and ethics. (3 hrs lec)

PSYC-2300 Child Psychology (3)

The physical, mental, and personality development of children from conception to adolescence with emphasis on the major roles played by maturation and learning, contrasting theories of child development, and the conduct and use of research on children. *Prerequisite:* PSYC 1000. (3 hrs lec)

PSYC-2330 Psychology of Adjustment (3)

Principles of mental hygiene in personal, social, emotional, and vocational adjustment which are based on an understanding of normal and abnormal personality and personality change methods. *Prerequisite:* PSYC 1000. (3 hrs lec)

PSYC-2380 Social Psychology (3)

A study of the ways in which a person's perceptions, thoughts, feelings, desires, behaviors, and values are influenced by other people. Also examines how an individual can affect the functioning of the groups to which he or she belongs. *Prerequisite:* PSYC 1000 or SOC 1000. (3 hrs lec)

QUICK START (QSCS)**QSCS-1550 Customer Service Specialist (10)**

The Certified Customer Service Specialist (CCSS) program provides training in the core interpersonal and technical skills required to deliver exceptional customer service in a broad range of customer contact jobs. Students will acquire skills for work in service, retail, and other industries in which customer contact is a vital operation. Credit cannot be earned in both QSCS 1500 and QSCS 1501, QSCS 1502, QSCS 1503, QSCS 1504, or QSCS 1505. (10 hrs lec)

QSCS-1551 Service Industry Business Environment (1)

This block of courses introduces the learner to the service industry. Students will learn to understand the requirement to be life-long learners, the work ethic required for exceptional customer service, the value that each worker adds to the work team and are introduced to the principles of quality service and business. Credit cannot be earned in both QSCS 1500 and QSCS 1501. (1 hrs lec)

QSCS-1552 Customer Contact Skills (4)

This block of courses provides the learner with

an understanding of the environment and skills training in communications with customers and managing that relationship in both telephone and face-to-face situations. Information sharing skills, telephone communications, and managing difficult customers skills are provided in simulated practice sessions. Learners also are introduced to valuing and relating to customers from various ethnic and cultural backgrounds. Credit cannot be earned in both QSCS 1500 and QSCS 1502. (4 hrs lec)

QSCS-1553 Computer Skills for Customer Service (2)

This block of courses provides the learners with an opportunity to perform basic computer skills related to word processing, spreadsheets, databases, email and credit card processing. Credit cannot be earned in both QSCS 1500 and QSCS 1503. (2 hrs lec)

QSCS-1554 Business Skills for the Customer Service Environment (3)

This block of courses introduces learners to creating logical, easy-to-read correspondence, using basic mathematics to perform business calculations, managing changes and personal response to changes in the workplace. A six-step problem solving model is discussed, providing the learner with tools that focus on excellence in the service environment. Credit cannot be earned in both QSCS 1500 and QSCS 1504. (2 hrs lec)

RANGE MANAGEMENT (RGMG)**RGMG-1000 Introduction to Range Management (1)**

Orientation to range management as a field of study and as a profession including assistance in preparing the student's academic program. (1 hr lec)

RGMG-2000 Principles of Range Management (3)

This course covers the basic principles of range management as they affect livestock production, wildlife management, grazing systems and patterns, grazing regions, and vegetation types. Range vegetation with livestock uses and range nutrition in related areas are all examined. Several field trips included. *Prerequisite:* RGMG 1000. (2 hrs lec, 2 hrs lab)

SOCIOLOGY (SOC)**SOC-1000 Sociological Principles (3)**

Seeks to understand the social and cultural dimensions of life and those factors which influence human behavior. Seeks to broaden the student's exposure to a wide variety of cultures, subcultures, and modes of behavior. (3 hrs lec)

SOC-1005 Risky Behaviors (3)

Designed to increase a student's awareness of the social influence of drugs, alcohol, STDs, and sexual assault from a multi-disciplinary perspective (health, physiological, and sociological). Presents in logical form accurate, current information from the biological, health, and sociological sciences essential for making sound decisions regarding lifestyle

choices. Course fulfills one credit of non-activity based wellness education or three credits of social science. This course is the same as HLED 1005. (3 hrs lec)

SOC-1100 Social Problems (3)

Students examine current social problems in America by utilizing basic sociological concepts and methods. Topics include: health care, poverty, crime, prejudice, drug use, inequality, and population/immigration. (3 hrs lec)

SOC-1200 Introduction to Social Work (3)

Seeks to familiarize students with the basic principles, methods, and skills of social work. Considers career opportunities in social work and related professions. (3 hrs lec)

SOC-2325 Marriage and Family (3)

A consideration of scientific research and expert insight with regard to dating, marriage, and family life. Includes such topics as dating, love, marital adjustment, finance management, marital conflict, sex, pregnancy, childbirth, and childbearing. (3 hrs lec)

SOC-2340 Relationship Violence (3)

Students will learn the nature and extent of domestic violence, child abuse, dating violence, and sexual assault in America and the legal ramifications. A historical perspective on relationship violence will be explored as well as contemporary factors that contribute to the recurrence of the cycle of violence. Finally, coping strategies and techniques to prevent burnout will be addressed for the professional working with the victims of violence. Students who successfully complete this course with a grade of "B" or better may be eligible for possible internship positions with Crisis Intervention Services. (3 hrs lec)

SOC-2400 Criminology (3)

Introduction to the field of criminology describing the nature and extent of crime in the United States. Topics include theories on crime causation, classifications of crime, collection of crime statistics, and the Criminal Justice System's response to controlling crime. This course is the same as CRMJ 2400. (3 hrs lec)

SOC-2410 Juvenile Delinquency (3)

Examines delinquency from a variety of perspectives and provides insight to a number of underlying causes for this social phenomenon. Explores philosophical differences between juvenile justice and adult justice and the emergence of the unique court system to process the juvenile offender. (3 hrs lec)

SOC-2420 History of Crime & Justice (3)

This course examines the historic evolution of American crime and the American justice system from the early Colonial Period through the Twenty-first Century. The course studies philosophical shifts in correctional strategies, criminal activities, and law enforcement techniques and their impact on crime and the American judicial system. Credit cannot be earned in both SOC 2420 and HIST 2420. All students who satisfactorily complete this course receive Honors credit. (3 hrs lec)

SOCIAL SCIENCE (SOSC)

SOSC-2395 Seminar in Social Science Research (3)

Students learn about the traditions and research techniques of various social science disciplines. Students acquire familiarity with library, Web-based, and other data collection methods, as well as rules of evidence and logical argumentation. Each student completes a research paper and presents the results in a multimedia format. **Prerequisite:** Successful completion of at least 30 credit hours.
(3 hrs lec) *Capstone Course*

SPANISH (SPAN)

SPAN-1010 First Year Spanish I (4)

Introduces the essentials of Spanish necessary for oral and written use of the language. Gives practice in speaking, reading, understanding, and writing as well as introducing Spanish culture. Requires weekly use of language tapes.
(4 hrs lec)

SPAN-1020 First Year Spanish II (4)

Continuation of SPAN 1010. More cultural topics covered. Requires weekly use of language tapes. **Prerequisite:** Two years of high school Spanish or completion of SPAN 1010 with a "C-" or better.
(4 hrs lec)

SPAN-1050 Conversational Spanish I (1-2)

Primarily for those who want to develop and enhance their ability to speak Spanish. Provides a setting where useful vocabulary is incorporated into learned and spontaneous conversations and where cultural differences are discussed as they pertain to everyday situations. Intended for students who have minimal proficiency or no previous Spanish language experience. Not intended for transfer credit.
(1-2 hrs lec)

SPAN-1060 Conversational Spanish II (1-2)

Primarily for those who want to continue to develop and enhance their ability to speak Spanish. Provides a setting where useful vocabulary is incorporated into learned and spontaneous conversations and where cultural differences are discussed. Intended for students who have minimal proficiency or no previous Spanish language experience. **Prerequisite:** Completion of SPAN 1050 with a "C-" or better.
(1-2 hrs lec)

SPAN-2030 Second Year Spanish I (4)

Reviews Spanish grammar and gives additional practice in conversation and composition. Includes an introduction to Hispanic literature. **Prerequisite:** Two years of high school Spanish or completion of SPAN 1020 with a "C-" or better.
(4 hrs lec)

SPAN-2040 Second Year Spanish II (3)

Continuation of SPAN 2030. More concentration on conversation, composition, literature, and culture. **Prerequisite:** Three years of high school Spanish or completion of SPAN 2030 with a "C-" or better.
(3 hrs lec)

SPAN-2140 Introduction to Literature (3)

An introduction to Spanish and Spanish-American literature from the Middle Ages to the present. Students study four genres: narrative, drama, poetry,

and essay. Course covers trends and historical events that influenced literature. Class methods include lectures, discussions, student presentations on research topics, in-class readings, and small group activities. **Prerequisite:** Three years of high school Spanish, SPAN 1020 with a "B" or better, SPAN 2030, SPAN 2040, SPAN 2210, or SPAN 2220.
(3 hrs lec)

SPAN-2210 Intermediate Composition and Conversation I (3)

Emphasis on the study of oral and written skills in Spanish. Prepares students for upper division courses in advanced composition and conversation. **Prerequisite:** Three years of high school Spanish, SPAN 1020 with a "B" or better, SPAN 2030, or SPAN 2040.
(3 hrs lec)

SPAN-2220 Intermediate Composition and Conversation II (3)

Continuation of SPAN 2210. More concentration on the study of oral and written Spanish. Prepares students for upper division courses in advanced composition and conversation. **Prerequisite:** Three years of high school Spanish, SPAN 1020, SPAN 2030, SPAN 2040 or SPAN 2210.
(3 hrs lec)

SPAN-2460 Field Studies: (1-3)

An introduction to the culture, geography, history, and language of a Spanish-speaking country. Course normally includes preparation prior to travel along with intensive language study and cultural experience in a foreign country. **Prerequisite:** Consent of instructor.
(1-3 hrs lec)

STATISTICS (STAT)

STAT-2010 Statistical Concepts for Business (4)

Covers descriptive measures, probability concepts, discrete and continuous distributions, sampling methods, parameter estimation, hypothesis testing, multiple group designs, contingency tables, regression and correlation, sample size determination, and methods for quality control. Emphasis on decision making applications. Introduces associated computer skills in labs. **Prerequisite:** A grade of "C-" or better in MATH 1400, MATH 1050, or MATH 1450 or placement at math level 4 within one year prior to enrollment.
(3 hrs lec, 2 hrs lab)

STAT-2050 Fundamentals of Statistics (4)

Covers descriptive measures, probability, discrete and continuous distributions, ideas and applications of statistical inference, hypothesis testing, and an introduction to regression and correlation. Emphasis on decision-making applications. Introduces statistical computer packages in weekly labs. **Prerequisite:** A grade of "C-" or better in MATH 1400, MATH 1050, or MATH 1450 or placement at math level 4 within one year prior to enrollment.
(3 hrs lec, 2 hrs lab)

STAT-2070 Introductory Statistics for Social Science (4)

Presents central ideas of descriptive statistics and statistical inference, as applied to questions in social sciences. Includes graphs, averages, sampling, estimation, hypothesis-testing and relationships between variables. Introduces associated

computer skills in weekly labs. **Prerequisite:** A grade of "C-" or better in MATH 1400, MATH 1050, or MATH 1450 or placement at math level 4 within one year prior to enrollment.
(3 hrs lec, 2 hrs lab)

THEATRE (THEA)

THEA-2120 Oral Interpretation (3)

Provides an opportunity for students to appreciate literature by interpreting it orally for an audience. Gives instruction in the principles of interpreting prose, poetry, and dramatic literature.
(3 hrs lec)

WELDING TECHNOLOGY (WELD)

WELD-1555 Welding Technology Safety and Problem Solving (2)

This course covers personnel protection, fire prevention, welding on closed containers ventilation, proper use of equipment, and treatment of minor injuries. May be repeated once for credit. For students seeking a degree in Welding.
(2 hrs lec)

WELD-1600 General Arc Welding (2-3)

This course is an introduction to oxyacetylene, electric arc and cutting torch. Different welding units and basic welds in main positions, economy in use of equipment, and special emphasis on safety are covered. Flexible credit contingent on enrolled lab hours. Open to any student.
(1.5 hrs lec, 1-3 hrs lab)

WELD-1650 Print Reading (3)

This course is a study of blueprint reading and basic drafting practices used in the welding and manufacturing industry. It provides training in reading and drawing blueprints and welding symbols through the development of comprehensive plans. For students seeking a degree in Welding.
(3 hrs lec)

WELD-1700 General Welding (2-3)

This course is an in-depth study and practice in arc welding, all positions, with a variety of metals. Introduces MIG and TIG machines. Oxyacetylene instruction includes brazing, aluminum, and cast iron. Flexible credit contingent on enrolled lab hours. Open to any student. **Prerequisite:** WELD 1600.
(1.5 hrs lec, 1-3 hrs lab)

WELD-1705 Welding Processes (4)

Basic acetylene and arc welding skills are examined. Care and use of welding equipment and hand tools explored. For students seeking a degree in Welding.
(2 hrs lec, 4 hrs lab)

WELD-1765 Advanced Welding Processes (4)

This course covers MIG and TIG skills; pipe welding skills; higher skills of welding copper, aluminum and stainless steel. For students seeking a degree in Welding. **Prerequisite:** WELD 1705.
(2 hrs lec, 4 hrs lab)

WELD-1770 GMAW - FCAW (4)

Students will gain technical understanding of Gas Metal Arc Welding (GMAW) equipment, metal

transfer, shielding gases, and welding safety. Emphasis will be placed on short circuit, globular, and spray transfer; Flux Cored Arc Welding (FCAW); and inner shield.
(2 hrs lec, 4 hrs lab)

WELD-1785 GTAW Welding (4)

Students will learn about Gas Tungsten Arc Welding (GTAW) which is an individual specialty that is demonstrated and performed on mild steel, stainless steel, and aluminum in all position fillet and butt joints. Information and practical experience is also included on pipe joints with root penetration and filler passes according to applicable codes.
(2 hrs lec, 4 hrs lab)

WELD-1800 Materials Evaluation (1-6)

This course provides an introduction to the field of destructive and nondestructive testing of metals. It examines testing methods in evaluation of various welding processes. For students seeking a degree in Welding.
(3 hrs lec)

WELD-1860 Welding Fabrication (4)

Students acquire knowledge of welding fabrication by emphasizing construction of welded projects, utilization of blueprints and specifications, and repair and maintenance of industrial equipment. For students seeking a degree in Welding.
(1 hr lec, 6 hrs lab)

WELD-1870 Advanced Metal Fabrication Technique (4)

Consists of developing plans and producing a finished project. Various welding positions and assembly techniques are utilized. For students seeking a degree in Welding.
(1 hr lec, 6 hrs lab)

WELD-1920 Basic Pipe Welding (3)

Arc welding of pipe in various positions and techniques are covered in this course. Safety electrode selection and certification codes are also included. Open to any students. **Prerequisite:** WELD 1700.
(1 hr lec, 4 hrs lab)

WELD-1960 Specialized Applications in Welding: (1-3)

This course provides the learner with a technical understanding of gas metal arc welding and gas tungsten arc welding, welding equipment setup, metal transfer, shielding gasses and welding safety. The course also provides hands on experience in any aspect of welding and alloys that are weldable using the process of tig and mig welding.
(.5 hr lec, 1-5 hrs lab)

WELD-2610 Ornamental Iron Work (3)

Students learn basic acetylene and MIG welding skills as well as 3-D art design elements. Course is intended for students interested in the basics of welding for personal use, set construction, or metal sculpture.
(1 hr lec, 4 hrs lab)

WELD-2670 Welding Inspection Technology (3)

Students learn about magnetic particle, dye penetrant, eddy current, radiographic and ultrasonic inspection of ferrous and nonferrous metals. For students seeking a degree in Welding.
(3 hrs lec)

WELD-2680 Welding Metallurgy (3)

Students gain an introduction to the field, emphasizing physical aspects. This course is centered around steel and ferrous alloys in the properties of metals with a view to their use and application. For students specializing in Welding.
(3 hrs lec)

WELD-2700 Welding Certification (Plate) (4)

Students gain an understanding of the theory and practice on plate metal with emphasis on certification. Includes work on various thicknesses and positions. Methods include arc, TIG, and MIG. For students seeking a degree in Welding. **Prerequisite:** Consent of instructor.
(1 hr lec, 6 hrs lab)

WELD-2710 Welding Certification (Pipe) (4)

Students study and practice pipe certification tests. Includes work on API 1104 and other industry tests. Covers arc, TIG, MIG, and oxyacetylene techniques. For students seeking a degree in Welding. **Prerequisite:** Consent of instructor.
(1 hr lec, 6 hrs lab)

WELD-2750 Metals Production (4)

Students will work on project production, weld test study, and technical reporting. For students seeking a degree in Welding. **Prerequisite:** Weld 1860 and successful completion of at least 30 credit hours.
(1 hr lec, 6 hrs lab)

WELD-2800 Plastic Welding (4)

Students acquire knowledge, skills, and experience to use proper procedures in thermoplastic welding.
(2 hrs lec, 4 hrs lab)

WELD-2970 Internship: Welding (1-6)

Designed for serious students interested in experiences on and off campus leading to transfer programs in vocational education, business engineering, or other options connected to Welding Technology. Also available to students who wish to broaden their occupational experiences to include experience in shop management, maintenance and repair, or other aspects of the welding environment. S/U grading only. **Prerequisite:** WELD 1705.
(2 hrs lab per credit hour)

WELD-2985 Welding Seminar (4)

Open to advanced students for project production, weld test study, and technical reports. For students seeking a degree in Welding. **Prerequisite:** WELD 2750 and successful completion of at least 30 credit hours.
(2 hrs lec, 4 hrs lab)

*Capstone Course***ZOOLOGY (ZOO)****ZOO-2010 Human Anatomy & Physiology I (4)**

The first course in a two-semester sequence. Includes cell chemistry, cellular structure and function, histology, the integumentary, skeletal, muscular, and peripheral nervous systems. Emphasis focused on the functional anatomy of the human body. Laboratory activities complement the lecture material with an appropriate balance between anatomy and physiology. One semester of Human Anatomy and Physiology will not meet the lab science requirement.
(3 hrs lec, 2 hrs lab)

ZOO-2020 Human Anatomy & Physiology II (4)

This course is a continuation of ZOO 2010. Topics of emphasis include the central nervous, cardiovascular, lymphatic, respiratory, and digestive systems, metabolism, urinary and reproductive systems, and genetics and early development. **Prerequisite:** ZOO 2010.
(3 hrs lec, 2 hrs lab)

ZOO-2060 Human Pathophysiology (3)

Studies basic concepts of common and chronic disease processes in humans. Examines physiological, morphological, and biochemical aspects of disease. Explores the relationships among the disease, its symptoms, and its treatment. **Prerequisite:** ZOO 2010 and ZOO 2020 or concurrent enrollment in ZOO 2020.
(3 hrs lec)

ZOO-2400 Vertebrate Natural History (4)

A study of fishes, amphibians, reptiles, birds, and mammals. Emphasizes North American forms and includes identification, classification, special characteristics, and natural history. **Prerequisite:** BIOL 1010.
(3 hrs lec, 3 hrs lab)

ZOO-2450 Wildlife Management (3)

Includes an introduction to the history of wildlife management and the ecological needs of wildlife species. Studies management strategies for wildlife in various ecological settings. Acquaints students with goals, methods, and problems of wildlife management.
(3 hrs lec)

BOARDS, ADMINISTRATION, FACULTY, STAFF

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Term expires 2004

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Term expires 2004

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Trustee
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Term expires 2004

Administration

LAROWE, MILES
President, 2003
University of Denver, BS 1970
University of Wyoming, MA 1973
University of Northern Colorado, EdD 1988

HRUSKA, SHER
Dean of Instruction, 1999
University of Minnesota, BA 1970
University of Cincinnati, MA 1972
University of Cincinnati, PhD 1974

KITCHEN, MARK
Dean of College Relations and Development, 1977
University of Wyoming, BA 1975

YOUNG, DANA
Dean of Students, 2003
Eastern Oregon University, BS 1988
Portland State University, MBA 1996

Faculty

ABELITA, REBECCA
Instructor in Nursing, 2002
Olivet Nazarene University, BS 1972
Northern Illinois University, MS 1992

BAKKEN, GARY
Assistant Professor of Photography, 1991
Montana State University, BS 1978
University of Minnesota, MA 1987
University of Wisconsin, MFA 1989

BARKAN, DAVID
Professor of Chemistry and Mathematics;
Chairperson of Physical Science Division, 1984
Bowling Green State University, BS 1973, MS 1982
University of Denver

BECKER, ROBERT
Instructor in Communication, 1994
North Dakota State University, Fargo, BS 1992
Colorado State University, MA 1995

BEDFORD, RONNIE
Instructor in Music, 1986
Whitney School of Art
Studied under Fred Albricht of the N.B.C. Symphony-Toscanini, Conductor, 1948-1952
Studied under Willie Rodriguez, 1948-1950

BIBBEY, MARIANNE
Instructor in Music; Accompanist, 1977
University of Wyoming, BA 1967

BIEKE, KATHLEEN
Associate Professor of English, 1983
University of Detroit, BA 1972, MA 1976
Wayne State University, PhD 1985

BLOOM-WILSON, HARRIET
Assistant Professor of French and English, 1981
State University of New York at Cortland, BA 1968
University of New Mexico, MA 1975;
University of New Mexico
Universite de Neuchatel, Switzerland
Fulbright Lecturer, Universite de Dijon, France

BRADLEY, BURTON
Associate Professor of English, 1986
California State University, Chico, BA 1980
State University of New York, Stony Brook, PhD 1986

BROPHY, DENNIS
Professor of Psychology, 1975
Washington University, St. Louis, AB 1967, AM 1968
Pacific School of Religion, MDiv 1971
Texas A&M University, PhD 1995

BRUCE, DEAN
Instructor in Business / Accounting, 2000
Kansas Wesleyan University, BA 1992
Emporia State University, MBA 1995

CAMPBELL, JOHN
Associate Professor of Biological Sciences, 1985
Albion College, BA 1971
San Francisco State University, MA 1977
University of Alberta, PhD 1983

CHAMPLIN, JENNIFER
Instructor in Art, 1999
University of North Dakota, BFA 1989
Syracuse University, NY MFA 1997

CHILDS, ALLAN
Professor of Chemistry and Mathematics, 1985
Iowa State University, BS 1970
Kansas State University, MS 1973, PhD 1980

CLIFTON, KRISTINA
Instructor in Nursing, 2003
Valencia Community College, AS 1976
Florida Southern College, BS 1985
University of South Florida, MS 1994

DAVIS, DENNIS
Assistant Professor of Journalism / Mass Communication, 1998
University of Wyoming, BS 1974, BS 1978
Capella University, MS 2002

DECHERT, RENEE
Associate Professor of English, 1997
Baylor University, BA 1986, MA 1989
Texas A&M, PhD 1997

DOOLEY, VERNON
Associate Professor of Agriculture, 1983
South Dakota State University, BS 1978, MS 1980
Michigan State University, PhD 1983

ELTON, HAROLD
Instructor in Welding, 1999
Northern Montana College, AS, 1966, BS 1969

ERICKSON, DAVID
Associate Professor of Sociology, 1994
University of North Dakota, BS 1990, MA 1993

FISH, DUANE
Professor of Communication; Director of Forensics;
Chairperson of Communication Division, 1976
Eastern Montana College, BS 1975
Wichita State University, MA 1976
University of Utah, PhD 1994

GEMOETS, DARREN
Instructor in Mathematics, 2003
Fort Lewis College, BA 1996
Montana State University, MS 1998

GIARRIZZO, JOHN JR
Associate Professor of Art, 1981
Kenyon College, BA 1977
University of Colorado, MFA 1981

GJOVIK, K PEDER
Assistant Professor of Graphic Arts / Printing, 1989
Valley City State College in Industrial Education, BS 1977
University of North Dakota, MS 1989

HANSEN, NEIL
Associate Professor of Music; Coordinator of Music; Director
of Bands, 1982
University of Northern Iowa, BA 1973
University of Wyoming, MA 1982

HARBON, STEVEN
Assistant Professor of Biological Sciences, 1982
Western Michigan University, BS 1971, MA 1973, SpA 1977,
MA 1977, PhD 1981

HITCHCOCK, RONALD
Associate Professor of Biological Sciences, 1988
State University of New York at Potsdam, BS 1979
Auburn University, MS 1982, PhD 1986

HOAGLAND, WILLIAM
Associate Professor of English, 1990
Northern Illinois University, BA 1974
University of Massachusetts, MFA 1979

IBARRA-ROBINSON, MARY ELLEN
Assistant Professor of Spanish, 1985
University of Wyoming, BA 1976, MA 1978

JOHNSON, WILLIAM (BILL)
Assistant Professor of Welding, 1996
Montana State University, BS 1995

JOHNSTON, JEREMY
Assistant Professor of History, 1994
University of Wyoming, BA 1993, MA 1995

KIMBLE, ELISE
Assistant Professor in Biological Sciences, 1998
Augustana College, BA 1967
University of Nebraska, MS 1984
University of Colorado, PhD 2001

KLIEWER, JAN
Assistant Professor of Music, 1990
Cleveland State University, BM 1986
University of Missouri-Kansas City, MM 1989

KOELLING, DEBORAH SPANGLER
Associate Professor of English, 1980
Macalester College, BA 1974
University of Nebraska-Lincoln, MA 1975, PhD 1984

KOELLING, ROBERT JR
Professor of English, 1979
Barton College, BA 1970
University of Nebraska-Lincoln, MA 1972, PhD 1982

KOLB, BELINDA
Instructor in Business / Accounting, 2000
University of Wyoming, BS 1983
University of Wyoming, MBA 1998

KRAFT, JANICE
Associate Professor of Accounting / Business Administration, 1998
University of Wyoming, BS 1974, MBA 1976

KRENZ, ROBERT

Associate Professor of Mathematics, 1988
Utah State University, BA 1980
Colorado State University, MS 1988

LORD, LARRY

Instructor in Mathematics, 2001
South Dakota School of Mines and Technology, BS 1995
Murray State University, MS 1998

MARCIN, JAMES

Instructor in Business, 2003
Mansfield University, BS 1993
Indiana Wesleyan University, MS 2002

MASTERSON, MICHAEL

Professor of Music; Chairperson of Visual and Performing Arts Division, 1977
Ball State University, BS 1972
Arizona State University, MM 1977
University of New Mexico, PhD 1990

McCALLISTER, KEITH

Instructor in Outdoor Education, 2003
University of Delaware–Newark, BS 1999
University of Northern Colorado, MA, 2001

NELSON, DOUGLAS

Professor of Anthropology, Greek, Hebrew, and History, 1983
Abilene Christian College, BA 1965, MDiv 1968
University of California–Los Angeles, MA 1974, PhD 1981

NISLEY, BRUCE

Instructor in Agriculture, 2001
University of Nebraska, BS 1987
Montana State University, MS 1992

NORTHROP, ASTRID

Assistant Professor in Engineering and Mathematics, 1997
Montana College of Mineral Science & Technology, BS 1984, MS 1986
Registered Professional Engineer, Colorado and Wyoming

OHMAN, MARLYS

Director of Nursing, Assistant Professor of Nursing, 2000
University of Wyoming, BS 1985
Whitworth College, MSN 1990

PATRICK, CHARLOTTE

Professor of Communication, 1966
University of Wyoming, BA 1965, MA 1969

PERCIFIELD, PAMILA

Visiting Instructor in Equine Studies, 2003
Northwest College, AAS 2001
Texas A&M University, BS 2003

POLLART, SUSAN

Assistant Professor in Physical Education / Women's Volleyball Coach, 1999
University of Wyoming, BS 1981
United States Sports Academy, MSS 1987

POLVERE, ANTHONY

Instructor in Photography, 2000
Pace University, BBA 1985
Pace University, BA 1985
Northern Arizona University, BS 1995
Northern Arizona University, MEd, 1996

RILEY, JAMES

Professor of Communication, 1977
Washburn University, BA 1965
Texas Christian University, MFA 1970
University of Utah

ROCHLITZ, KENNETH

Assistant Professor of Physical Education / Men's Basketball Coach; Director of Athletics and Recruiting, 1980
University of Wyoming, BS 1964, MEd 1970

RUMBOLZ, ROBERT

Instructor in Music, 2001
Macalester College, BA 1982
University of Minnesota, MA 1989
Wesleyan University, PhD 2000

SATTERLEE, CRAIG

Associate Professor of Photography; Coordinator of Photography, 1978
Montana State University, BS 1976
University of Iowa, MA 1982

SATTERLEE, LISA

Instructor in Business Technology / Information Systems, 1983
University of Iowa, BS 1983
University of Wyoming, MBA 1998

SHERWOOD, ANNE

Visiting Instructor, Equine Studies, 1998

STEWART, MARK

Assistant Professor in Engineering and Mathematics, 2003
Drew University, BA 1994
Lehigh University, PhD 2002

STOTHART, ROBERT

Instructor in English and ESL, 2001
Western Washington University, BA 1978
University of Washington–Seattle, MFA 1987

STURMER, GARY

Professor of Political Science and Economics; Chairperson of Social Science and Education Division, 1979
College of Idaho, BA 1973
Idaho State University, DA 1979

TAFOYA, RENEE

Instructor in Art and Graphics, 1999; 2002
San Jose State University, BS 1984

THORPE, LYNN

Assistant Professor of Art, 1984
University of Washington, BA 1968
University of Wyoming, BA 1981, MFA 1983

THULIN, STEVEN

Associate Professor of History, 1990
Old Dominion University, BA 1975, MA 1977
Kent State University

TYREE, MORGAN

Assistant Professor of Graphic Arts / Printing, 1991
Arizona State University, BS 1981
Northern Arizona University, MA 1988

VIOLETT, RANDY

Assistant Professor of Agriculture, 1996
Montana State University, BS 1985, BS 1986, MS 1996

WAITE, NEIL

Assistant Professor of Mathematics, 1994
Brigham Young University, BS 1992, MS 1994

WALKER, NANCY

Assistant Professor of Mathematics; Coordinator of Math, 1984
Eastern Montana College, BS 1976
University of Wyoming, MA 1989

WALLACE, GARRY

Assistant Professor of Biological Sciences, 1987
University of Montana, BA 1980, MA 1982
Bennington College, MFA 2001

WATKINS, FRED

Assistant Professor of Mathematics, 1980
Fort Lewis College, BA 1969
University of Wyoming, MA 1971
University of Wyoming

WATNE, BRUCE

Associate Professor of Chemistry and Astronomy, 1981
Massachusetts Institute of Technology, BS 1967
Montana State University, PhD 1978

WEBB, TOM

Instructor in Physical Education / Women's Basketball Coach, 2000
Southwest State University, BS 1998
Northern State University, MS 1999

WHEELER, DARREN

Assistant Professor of Political Science, 2001
Western Illinois University, BS 1990
Western Illinois University, MA 1994
Miami University – Ohio, PhD 2003

WHITE, CAROLYN

Associate Professor of Business Technology; Chairperson of Agriculture, Technology, and Business Division, 1981
Chadron State College, BS 1971
Eastern Montana College, MEd 1985

WHITE, GREGORY

Instructor in Physics, 2003
Walla Walla College, BS 1970
University of Washington–Seattle, MS 1971

WHITE, WALLACE

Associate Professor of Drafting, 1979
Chadron State College, BS 1968
Northern Montana College, MS 1973

WILLIAMS, KATHLEEN

Assistant Professor of Education, 1985
City College of New York, BBA 1968
University of Wyoming, MA 1974, PhD 1984

WILSON, RICHARD

Associate Professor of English; Chairperson of Humanities Division, 1981
Fairfield University, BA 1969, MA 1974
University of New Mexico, PhD 1979

WOLFE, HAROLD WALLACE

Assistant Professor of Psychology, 1987
University of Wyoming, BA 1969
University of Alabama, MA 1975
University of Alabama

WOODEN, JEFF

Instructor in Photography, 2001
PIMA Community College, AAS 1979
Brooks Institute of Photography, BA 1991
Brooks Institute of Photography, MS 1993

WURZEL, MARY ANN ATWOOD

Associate Professor of Education; Director of Field Placement, 1989
Chadron State College, BS 1969, MS 1973
University of Wyoming

YOUNG, FLOYD

Associate Professor of Physical Education; Chairperson of Life and Health Science Division, 1984
University of Wyoming, BS 1964, MS 1970

ZEIGLER, JIM

Instructor in Physical Education / Wrestling Coach; Fitness Center Director, 1993
University of Southern Colorado, BS 1990
University of Northern Colorado, MA 1992

Northwest College Emeriti

BEYER, K KEITH

Professor Emeritus of English, 1970
University of Northern Iowa, BA 1958, MA 1968

CHRISTENSEN, STANLEY

Professor Emeritus of Agriculture, 1976
University of Wyoming, BS 1961, MEd 1964, EdD 1976

COUGHENOUR, ARTHUR

Professor Emeritus of Business, 1970
Grove City College, BS 1958
Montana State University, MS 1971

FISHER, DONALD

Professor Emeritus of Engineering, 1968
University of Wyoming, BS 1959, MS 1968
Registered Professional Engineer, Wyoming
University of Wyoming

FRIES, ARTHUR

Professor Emeritus of Chemistry, 1958-1984
McPherson College, BS 1948
University of Northern Colorado, MA 1952
University of Northern Colorado

ORENDORFF, SINCLAIR

Emeritus Administrator, 1966-1988
Southwestern College, AB 1948
George Peabody College Vanderbilt, MA 1948
University of Wyoming, EdD 1967
Oklahoma State University

SMITH, E. JEANNETTE

Professor Emerita of Spanish, 1962-1985
University of Colorado, BA 1945
Middlebury College, MA 1966
Universidad Central, Quito, Ecuador
Universidad de Sevilla, Spain
Universidad de Costa Rica

WASDEN, WINIFRED

Professor Emerita of English, 1964-2000
University of Wyoming, BA 1960, MA 1961
University of Utah

Professional Staff

ALMLI, JENNIFER

Director of Financial Aid, 2003
Miles Community College, AA 1994
University of Great Falls, BA 2002

ANDERSON, JENNIFER

Interim Enrollment Services Assistant, 2003
Northwest College, AA 1998
University of Wyoming, BA 2000

BAUMANN, MARY

Multicultural Coordinator, 1997
Montana State University, BS 1979

BELL, JOHN

Supervisor of Grounds and Custodial Services, 1993
University of Wyoming, BS 1979

BJORNESTAD, TIM

Director of West Campus, 1988
Northwest College, Certificate 1988

BUSHNELL, ROM

Director of Adult Basic Education, 1997
University of Colorado at Boulder, BA 1979
University of Texas at Austin, MA 1982

CARLSON, KAY

Director of Library, 1996
Eastern Oregon State College, BS 1971
Indiana University, MLS 1993

CHILDS, CINDY

Learning Specialist, 2001
Kansas State University, BS 1974

COBOURN, CASEY

Coordinator, Prospective Students / Off Campus Activities, 2001
Doane College, BA 1996, BS 1979

CROSBY, KATHERINE

Director of Work-Based Learning, 1998
Miles Community College, AA 1992
Montana State University-Northern, BS 1995

DICKS, DAMIAN

Data Base Administrator, 2000
Northwest College, AAS 1996

FEES, NANCY

Mathematics Tutoring Center Manager, 2004
Mills College, BS 1971
Idaho State University, MA 1975

FISH, VIRGINIA

Associate Dean of Instruction, 1976-84; 1987
Eastern Montana College, BS 1974; MS 1993

GASCH, CARRIE

Director of Annual Giving and Alumni, 2000
Northwest College, JC 1977
University of Wyoming
Eastern Montana College

HAMMOND, BRAD

Coordinator of Prospective Students / On Campus Activities, 2000
Northeastern State University, BA 2000

HARSH, LISA

Career / Transfer Specialist, 2002
Central University of Iowa, BA 1989
University of Wisconsin-La Crosse, MS 1991

HAVIG, DEE

Director of Residence Life, 1987-91; 1992
University of Wyoming, BA 1992, MA 1999

HEIMER, JO ANN

Director of Budget and Accounting, 1975
Northwest College, AS 2002

HERMAN, ROXANNE

Director of Student Health Services, 1998
Bryan Memorial School of Nursing, RN 1984
University of North Dakota, PA Certificate 1994

HERNANDEZ, WEST

Interim Admissions Representative, 2003
University of Montana - Dillon, BA 2003

HORTON, SCOTT

Instructional Technology Coordinator, 1976-1997; 2000
Montana State University, BS 1974

JOHNSON, JOEY

Stock Ag Pavilion Coordinator / Livestock Judging Coach, 2001
University of Wyoming, BS 1994

KASINGER, CLINT

Network Manager, 1999

KEIL, BILL

Director of Computer Services, 1994
Montana State University, BS 1968

KELSAY, DENISE

Assistant to the Art Department / Galleries Director, 1995
Northwest College, AAS 1988

KOBBE, HEATHER

Director of Human Resources, 2003
University of Wisconsin - Madison, BA 1996

LAIRD, KATHY

Counselor, 2000
College of Santa Fe, BA 1990
University of New Mexico, MA 1994

MARMAN, KIMBERLY

Director of Bookstore, 1995-99; 2000
Northwest College, AS 1992
Montana State University-Billings, BS 1995

MARTIN, DIANE

Assistant Librarian, Reference & Cataloging, 1988
Millersville University, BS 1969
University of Arizona, MA 1997

McGEE, SEAN

Residence Hall Director, 2003
Plymouth State College, BA 2001

METTES, RIK

Farrier Science Coordinator, 1991
Eastern Montana College, AA 1991

MILLER, GEORGE

Director of Workforce Development, 2003
University of Utah, BA 1978
Oregon State University, MA 2003

MILLS, DEB

Director of Student Success Programs, 2001
Austin Peay State University, BS 1977
University of Wyoming, MA 1996, MA 2003

MILLS, KIM

Director of Physical Plant, 2002
Montana State University, BS 1973

MINICK, LINDY

Residence Hall Director, 2003
Northwest College, AS 2000
Utah Valley State College, BS 2003

MUSCIO, MARLA

Assistant Director of Workforce Development - Cody, 1998; 2002
Montana State University, BS 1979

NEWELL, LINDA

Registrar, 2000
Western State College, 1982
University of Phoenix, MA 1992

NOSE, DEL

Rodeo Coach / Program Coordinator, 1999

PEER, RONDA

Director of Extended Campus, 1985-88; 1992; 1993
Northwest College, AA 1982
Mesa State College, BA 1990
University of Wyoming, MA 1998

PROFFITT, NICOLA

Manager of News Service, 1988
Northwest College, AS 1976

RITTMAN, STEPHANIE

Director of Project Succeed, 2004
Oberlin College, BA 1998
University of Wisconsin - Madison, MS 1994

RIVARD, RICK

Photography Studio and Lab Manager, 2003
Eastern Montana College, BS 1973

RUMANN, COREY

Counselor, 1999
University of Wyoming, BS 1991, MS 1998

SCHULLER, ROBERT

Manager, Printing Services, 1985
Northwest College

SHERWOOD, MARVIN

Manager of Equine Center, 1988
Montana State University, BS 1985
West Texas State University, MS 1988

SHRIKHANDE, DEVENDRA

Web Manager, 2002
Dnyaneshwar Vidyapeeth, Pune, India, BE 1984
University of Wyoming, MBA, 1998

SPERRY, MIKE

Supervisor of Maintenance, 1989

STECK, SUSAN

Grievance Officer, 1997
University of Wyoming, BA 1963

STRATMAN, EDWARD

Supervisor of Field Station, 1978
Wayne State College, BA 1973
University of Nebraska-Omaha, MA 1978

STRATMAN, JANICE

Assistant Supervisor and Cook of Field Station, 1990

SULLIVAN, KRISTIE

Housing Office / Summer Conference Coordinator, 1993
Liberty University, BS 1986

TAYLOR, MICHAEL

Director of Student Activities / Orientation, 1992
Cornell University, BS 1977, MPS 1981

VANGRINSVEN, ALANA
 Director of Child Care Center, 1985-88; 1990
 University of Wyoming, BA 1988

VAUGHAN, DAVID
 Photography Manager College Relations and Development,
 2003
 Northwest College, AAS 1996

VREDENBURG, LAUREL
 Director of Publications, 1983
 Northwest College
 University of Missouri-Kansas City

WAKE, SANDRA
 Extended Campus Representative – Worland, 1986
 Chadron State College, BA 1980
 Eastern Montana College, BS 1982

WETZEL, SHELBY
 NWC Foundation Executive Director, 1992
 University of Wyoming, BA 1995

Classified Support Staff

ANDERSON, GARY
 HVAC / Maintenance Assistant, 2000

ARGENTO, LARRY
 Carpenter / Maintenance Assistant, 1989
 University of Wyoming, BA 1967

AUSTILL, LORI
 Interim Research Assistant, 2003
 Northwest College, AAS 2003

BEAVER, MARCIA
 Secretary, Nursing Department, 1992

BECK, LORILYN
 Clerk, Instruction Office; Clerk / Receptionist, Music Camps
 and Festivals, 1992-94; 1997
 Northwest College, AA 1983
 Valley City State University, BS 1988

BEEBE, TINA
 Bookstore Assistant III, 2002

BELL, BOBBIE
 Accounts Receivable Clerk, 2001

BERRYMAN, HOLLY
 Communications Services Operator, 1999

BEUKELMAN, JOYCE
 Child Care Aide, 1988
 University of Northern Iowa, BA 1972

BRADBURN, ALBERT ERNEST
 Custodian, 1992
 Northwest College, AA 1981

BRADBURN, SHARON
 Custodian, 1995
 Northwest Nazarene College

BRAZELTON, ROGER
 Custodian, 2002
 Central Wyoming College, AAS 1976

BRISENO, EVELYN
 Child Care Aide, 1987

CICCI, CINDY
 Executive Secretary, Office of President, 1996
 Moorhead State University, BS 1985

CRAGOE, ANNA
 Secretary, Agriculture, Technology and Business Division
 1998

CROSS, VALERIE
 Secretary, Social Science and Education Division, 1991-96;
 1996
 Northwest College, AA 1980
 University of Montana, BA 1982

DAVIS, MARY LOU
 Administrative Secretary, Office of College Relations and
 Development, 1978-91; 1992
 Northwest College, AA 1967

DAVIS, ROBIN
 Administrative Secretary, Office of Administrative Services,
 1999
 Northwest College, AAS 1990, AAS 2003

DEARCORN, CASEY
 Computer Support Specialist, 2000

DEWITT, LISA
 Computing Services Assistant, 2003

FULBRIGHT, KAREN
 Enrollment Services Technician / Financial Aid, 1998

GASAWAY, TRACY
 Payroll/Benefits Manager, 1998
 Northwest College, AS 2004

GILMAN, STACY
 Workforce Development Office Coordinator, 2003
 University of Wyoming, BS 1993

GILMORE, NANCY
 Secretary, Cody Center, 2002; 2003
 Northwest College, AAS 2001

GLASS, DIANE
 Library Assistant/Evening/Weekend/Summer Supervisor, 2003
 Northwest College, AAS 2003
 Purdue University, BA 1992

GONZALEZ, RENEE
 Business Office Assistant, 2003

GORMLEY, JANICE
 Secretary, Communication Division, 2000

GREENWALD, JEANNE
 Administrative Assistant, Office of Instruction, 1993
 Northwest College

HARRISON, MARIANNE
 Enrollment Services Technician / Degree Audit and Grades,
 2001
 Northwest College, AA 1997

HARRISON, TIM
 Custodian, 2001

HERNANDEZ, LYDIA
 Enrollment Services Technician / Student Records and
 Registration, 1992

HIEB, VALERIE
 Custodian, 1985

JACOBS, DEBBIE
 Secretary, Student Success Center, 1984-87; 1992

JAMES, BEVERLY
 Bookstore Assistant II, 1998

KELLY, DEBRA
 Library Assistant, Serials / Government Documents / Interli-
 brary, 1983-88; 1996
 Northwest College, Certificate 1974
 Montana State University, Billings, BS 1977

KLINE, CHAR
 Secretary, Office of Enrollment Services, 2001
 Northwest College, AAS 2000

KOBBE, DENISE
 Secretary, Life and Health Science Division / Health, Outdoor,
 and Physical Education Department / Athletics, 2000

LAUGHLIN, GEORGE
 Printing Services Operator, 1990
 Northwest College

LAWRENCE, CHRISTINE
 Custodian, 1997
 Northwest College, AS, AA, 1990

LEBLANC, CARLA
 Secretary, Residential Life, 1981
 Northwest College, AB 1980

LENNON, MELANIE
 Secretary, Physical Science Division / Biology Program, 1992
 Northwest College, AAS 1992

LINVILLE, SANDRA
 Custodian, 2001

McNULTY, DULCIE
 Business Office Manager, 2000

MEIDINGER, DIANE
 Custodian, 1977

MICKELSON, WENDELL
 Electrician / Maintenance Assistant, 1995
 University of Wyoming, BA 1970, MS 1972

MILLER, KARALEE
 Custodian, 1996
 Northwest College, AA 1995

MILLER, NANCY
 Library Assistant, Circulation / Acquisitions, 1997
 Oregon State University, BS 1981

MONTGOMERY, DELORES
 Custodian, 1996

NIELSEN, LINDA
 Development Technician / Bookkeeper, 2003

OLBERDING, CANDY
 Biology Lab Assistant, 1996
 Veterinary Technician Institute of Minnesota

OLSEN, LOYAL
 Campus Watchperson, 2004

OLSON, OLIN
 Carpenter / Maintenance Assistant; Locksmith, 1990

PALAN, DIANE
 Administrative Secretary, Office of Student Services, 1977

PINEGAR, JOHN
 Utility Worker, 2000

POWERS, CAROL
 Custodian, 1979

RAGSDALE, THERMAN
 Utility Worker, 2000

RAY, BARBARA
 Secretary, Work-Based Learning and ABE/ESL/GED, 2003

RENAUD, FRED
 Utility Worker, 1992
 Northwest College, AS 1991

RENAUD, KARL
 Custodian, 2003

SAPP, TOBY
 Child Care Aide, 1997

SCHATZ, GARNET
 Library Assistant, Evening/Weekend/Summer Supervisor,
 1997

SCHULLER, NANCY
 Printing Services Technician, 1987
 Northwest College, AAS 1986

SCHWAN, JENNIFER

Secretary, Project Succeed, 2003
Mayville State University, BS 1986

SEVEREIDE, DEBBIE

Clinic Nurse, 1993
Northern Montana College, LPN 1972

SPERRY, PAM

Secretary, Physical Plant, 2001

SPOMER, LINDA

Accounts Payable Clerk, 1981

SZATKOWSKI, GARY

Computer Support Specialist, 1996

THOMPSON, PATTY

Library Assistant, Evening/Weekend Supervisor, 2001

TIMMONS, TERRI

Secretary, Humanities Division, 1997
Northwest College, AA 1972
Brigham Young University, BA 1975

VELAND, JOYCE

Secretary, Visual and Performing Arts Division, 1998

WHITNEY, SHERYL

Datatel and User Support Specialist, 2003
Southern Illinois University, BS 1989

WICKELMAN, JOHN

Campus Watchperson, 2003

WILLIAMS, CARLENE

Financial Aid Systems Specialist, 1984
Northwest College, AAS 1985

WOOD, KASHA

ABE Office Coordinator and GED Examiner, 2003
University of Wyoming, BS 2001

WOODS, SUE

Development Technician / Database Manager, 2002

ZAWACKI, CAROL

Coordinator, Tutoring and Testing Services, 1999

**Northwest College
Foundation**

NELSON, DICK

President

WILDER, DICK

Vice President

EDMONDS, DUANE

Second Vice President

BONNER, DAVE

Secretary

DEWITT, JOSEPHINE

Assistant Secretary

ROBIRDS, HAROLD

Treasurer

JONES, ALAN

Assistant Treasurer

Bonner, Brad – Powell
Boydston, Marinell – Cody
Brumage, Esther – Powell
Gose, Bob – Powell
Hopkin, Fred – Cody
Frisby Hedderman, Gloria – Powell
* Frisby, Robert – Cody / Powell
Kearns, Roger – Cody
* Knutson, Maurice – Powell
LaRowe, Miles, ex-officio – Powell
Lee, Bryan – Frannie
Linton, H.A. “Bud” – Powell
Linton, Jim – Powell
McCarty, Darlene – Cody
McDonald, Willis – Cody
Minchow, Jim – Lovell
Nickles, Megan – Powell
* Nott, Ray – Powell
* Orendorff, SinClair – Powell
Paul, Ernie – Powell
Rhiner, John – Cody
Riley, Victor – Cody
Rodriguez, Paul – Powell
Rohrbach, Bill – Cody
Sheets, William – Cody
Shipp, Rhonda – Cody
Taggart, Chris – Cody
Thomas, Cyndy – Meeteetse
Turnell, Jack – Meeteetse

**Director Emeritus*

**Northwest College Alumni
Association**

HOFFMAN, N. JASON (‘91) – Powell, Wyo.
President

BELL, JAMES (‘87) – Cody, Wyo.
Immediate Past President

CUMMINS, CLAYTON (‘61) – Billings, Mont.
Vice President / President-elect

KIEFER, JAN (Littlehales) (‘71) – Ten Sleep, Wyo.
Secretary

Adkins, Toni (Roberts) (‘92) – Cody, Wyo.
Battershell, Jim (‘60) – Powell, Wyo.
Easum, Kim (Norlin) (‘94) – Cody, Wyo.
Geer, Darel (‘75) – Gillette, Wyo.
Graham, Tim (‘71) – Basin, Wyo.
Hammond, Ruth (‘79) – Lovell, Wyo.
Lundberg, Amie (Baxter) (‘92) – Powell, Wyo.
Northrup, Astrid (‘84) – Powell, Wyo.
Palmer, Hugh (‘67) – Sundance, Wyo.
Rasmussen, Martha (Carrizales-Anderson) (‘81) – Burlington, Wyo.
Singer, Tom (‘73) – Billings, Mont.
Starceovich, Angela (Novokovich) (‘85) – Powell, Wyo.
Terry, Gail (‘76) – Cody, Wyo.
Veile, David (‘63) – Worland, Wyo.
Wambeke, Ted (‘79) – Cody, Wyo.
Webster, Brian (‘84) – Cody, Wyo.

A

Academic Activities	14
Academic Advising	19
Academic Amnesty	24
Academic Calendar	inside front cover
Academic Code of Conduct	23
Academic Computing Fee	9, 10
Academic Divisions:	
Agriculture, Technology and Business	31
Communication	39
Humanities	44
Life and Health Science	48
Physical Science	55
Social Science and Education	59
Visual and Performing Arts	65
Academic Exception Policy	25
Academic Procedures/Policies	21
Academic Probation	24
Academic Success Program	7
Academic Support Services	19
Academic Suspension	24
Accident Insurance and Health Plans	9, 10
Accommodations	19
Accounting	34, 70
Accreditation of the College	5
ACT	6, 21
Activities	14, 18
Adding Courses	21
Administration	101
Administrative Assistant	36
Admission to the College	6
Concurrent High School Enrollment	6
Home Schooled Student	6
International Student	6
Special	7
Transfer Student	6
Out-of-State Resident	6
Wyoming Resident	6
Adult Basic Education	15
Adult Student Services	19
Advanced Placement Examinations	10, 22
Advising	16, 19
Changing Advisors	19
Agriculture	31, 70
Agriculture Business	31
Agriculture Communications	32, 39
Agriculture – CROP	78
Agriculture Economics	70
Agriculture Education	32
Agroecology	32, 70
Animal Science	32, 71
Farm and Ranch Management	34
Farrier Business Management	34
Production Agriculture	33, 34
Range Management	33
Agriculture, Technology, and	
Business Division	31
Agroecology	32, 70
Alternative Credit Charges	10
Alumni Association	5, 105
American Government	26
American Studies	44, 71
Interdisciplinary Studies	44
Media and Cultural Studies	44
Native American Studies	45
Regional Ecology and Cultural Values	44
Animal Science	32, 71

Anthropology	59, 71
Apartments	9, 17
Appeals	23
Application for Graduation	30
Archaeology Technology	59
Archaeological Technician	60
Art	65, 72
Art Education	65
Associate of Applied Science Degree	26-30
Associate of Arts Degree	26-30
Associate of Science Degree	26-30
Astronomy	73
Athletics	18
Athletic Training	51
Attendance Policy	22
Auditing Classes	21
Aviation	73

B

Below College-Level Courses	29
Biology	48, 74
Biology Education	48
Board of Trustees	5, 101
Books and Supplies	9
Bookstore	20
Botany	74
Budget of Northwest College	5
Business	34, 75
Accounting	34
Management	35
Marketing	35
Business Administration	34, 73
Business Communication	26
Business Management Information Systems	74
Business Technology	36, 74
Administrative Assistant	36
General Office/Clerical Skills	37
Network Technician	36
Help Desk Specialist	36
Word Processing	37

C

Calendar	inside front cover
Campus and Facilities	5
Campus Map	inside back cover
Campus Visit	6
Cancellation of Classes	30
Capstone Courses	14
Career Planning	19
Career Development and Information	19
Catalog Under Which a Student May Graduate	30
Certificates	26-30
Challenge Examinations	10, 22
Changing Courses	21
Chemistry	55, 75
Chemistry Education	55
Child Care Services	18
CISCO Academy Codes	69
Classified Support Staff	104
Class Load	21
CLEP Examination	10, 22
Clubs and Organizations	18
College Success Courses	15
Communication	39, 77

Communication and Mass Media	77
Communication Division	39
Community Education	16
COMPASS Testing	10, 21
Compliance Statement	inside front cover
Computer Applications	75
Computer Science	55, 77
Computer Services	5, 20
Concurrent Enrollment	6, 14
Conduct Codes	23
Contact Information	3
Continuing Education	15
Cooperative Education	15, 69
Costs	
Academic Computing Fee	9, 10
Accident Insurance and Health Plans	9, 10
Alternative Credit Charges	10
Books and Supplies	9
Course Fees	9, 10
Fixed Fees	9, 10
Housing	9
Housing Deposit	17
Instructional Fee	9, 10
Other Charges	10
Tuition	9, 10
Counseling	19
Course Descriptions	3, 69
Course Designators	69
Course Fees	9, 10
Course Numbering System	3, 69
Courses	69
Courses Below College-Level	29
Courses Meeting General Education	
Requirements	28
Course Transfer	3, 19, 24
Credit by Examination	10, 21
Credit Hour	3
Criminal Justice	77
Crop Science	78
Cultural Programs	16

D

Definitions	3
Degree Requirements	26
Degrees/Certificates Offered	26-30
Degree Worksheet	107
Developmental Courses	15
Developmental Studies	78
Directed Studies/Research Problems	69
Disabilities Accommodations	19
Dismissal Policy	24
Drafting	56
Dropping Courses	11
Dual Admissions	8

E

Early Childhood Education	61, 74
Earning a Second Degree	30
Economics	60, 78
Economics, Agriculture	78
Education	59, 79
Curriculum/Instruction	78
Early Childhood	61, 78
Elementary	60

Exceptional Children 79
 Secondary 61
 Educational Foundations 79
 Electrical Apprenticeship 79
 Elementary Education 60
 Emergency Medical Technology 80
 Emeriti, Faculty & Administration 102
 Employment on campus 12
 Enduring Values of the College 4
 Engineering 57
 Engineering Science 83
 Engineering Technology 81
 English 26, 28, 45, 80
 English as a Second Language 15
 English Education 45
 English – Literary Studies or Writing 45
 Enrollment Services 6
 Entomology 81
 Environmental Biology 49
 Equine Business Management 37
 Equine Judging 14
 Equine Riding and Training 37
 Equine Studies 37, 81
 Expenses and Financial Aid 9
 Extended Campus 14

F

Faculty 101
 Family and Consumer Science 83
 Family Educational Rights and Privacy Act 7
 Farm and Ranch Management 34
 Farrier Business Management 34
 Federal Aid 11
 Fees 9, 10
 FERPA 7
 Field Station 5
 Field Studies 14, 69
 Final Examinations 21
 Finance 84
 Financial Aid 11
 Fitness Center 18
 Food Science 83
 Food Services 17
 Foreign Language Education 46
 Forensics 14
 Forestry 49
 Foundation 5, 105
 French 46, 84
 Freshman 3
 Full-time Student 3

G

GED 15
 Geography 61
 Geography and Recreation 84
 Geology 57, 84
 General Code of Student Conduct 23
 General Education Requirements 26
 General Office/Clerical Skills 37
 General Studies 28
 Goals of the College 4
 Golden Age 11
 Grade Point Average 22
 Grade Reports 22

Grading Policies 22
 Graduating with Honors 23
 Graduation Application 30
 Graduation Data 4
 Graduation Requirements 26
 Grants 11
 Graphic Arts 85
 Graphic Design 65
 Graphics 40, 66
 Design 40, 65
 Prepress Production 41, 66
 Printing Production 41, 66
 Web Design and Application 42, 66
 Greek 85

H

Health Education 52, 86
 Health Plans 10
 Health Services 19
 Hebrew 48, 85
 Help Desk Specialist 36
 History 62, 85
 History of Northwest College 4
 Home Schooled Student Admissions 6
 Honor Rolls 22
 Honor Society 14
 Honors Program 14, 23
 Horticulture 87
 Housing 9, 17
 Human Development 87
 Humanities 26, 28, 44, 87
 Humanities Division 44

I

Immunizations 6, 17
 Incomplete Policy 23
 Independent Study 15, 69
 Information Management 87
 Insurance 9, 10
 Instructional Fee 9, 10
 Interdisciplinary Studies 44
 International Student Admissions 6
 International Student Services 19
 Internships 15, 69
 Interpreting Course Descriptions 69
 Intramural Sports 18

J

Job Placement Services 20
 Journalism 42, 87
 Print 42
 Web/Broadcasting 42
 Judging 14

K

Kinesiology 88

L

Languages 46
 Learning Disability Services 19
 Learning Outcomes 26
 Liberal Studies 28
 Library 20
 Library and Information Science 62
 Library Science 88
 Life and Health Science Division 48
 Literary Studies 45
 Livestock Judging 14
 Livestock Show Team 14
 Loans 11

M

Management 35, 89
 Marketing 35, 90
 Mathematics 26, 28, 57, 88
 Mathematics Education 57
 Meal Plans 9, 17
 Media and Cultural Studies 44
 Mid-term Progress Reports 22
 MIG Welding 38
 Minority Student Services 19
 Mission of the College 4
 Modern Languages 46
 Molecular Biology 90
 Multi-Cultural Awareness 26, 28
 Music 66, 90
 Music Technology 68

N

Native American Studies 45
 Natural Resource Biology 49
 Network Technician 36
 New Student Orientation 17
 Nondiscrimination Statement 5
 Northwest College Alumni Association 5, 105
 Northwest College Foundation 5, 105
 Nursing 53, 92

O

Occupational Therapy 49
 On-Campus Living Requirement 7, 17
 Organizations 18
 Orientation 17
 Outdoor Education 51, 93
 Outdoor Education – Activity 93
 Outdoor Education – Professional 93
 Outdoor Recreation 18
 Out-of-State Resident Admissions 6
 Overload Policy 21

P

Part-time Student 3
 Payment Policy 10
 Persistence Data 4
 Philosophy 47, 95
 Philosophy of General Education 26

Phi Theta Kappa..... 14
 Photographic Communications..... 42, 96
 Physical Education..... 52, 94
 Physical Education – Activity..... 94
 Physical Education – Professional..... 95
 Physical Education – Varsity Athletics..... 95
 Physical Science Division..... 55
 Physical Therapy..... 49
 Physics..... 58, 97
 Placement Testing..... 21
 Political Science..... 62, 97
 Practicum..... 69
 Pre-Baccalaureate Nursing..... 53
 Pre-Dentistry..... 51
 Pre-Law..... 63
 Pre-Medicine..... 51
 Pre-Optometry..... 50
 Preparation for College..... 6
 Pre-Pharmacy..... 50
 Prepress Production..... 41, 66
 Pre-Professional Sciences..... 51
 Prerequisites..... 69
 Pre-Veterinary Medicine..... 51
 Print Journalism..... 42
 Printing Production..... 41, 66
 Probation..... 24
 Production Agriculture..... 33, 34
 Professional Staff..... 103
 Programs of Study Available..... 29
 Project Succeed..... 20
 Psychology..... 63, 97

Q

Quick Start..... 98

R

Range Management..... 33, 98
 Recreation Equipment Co-op..... 18
 Refund Policy..... 10, 17
 Regional Ecology and Cultural Values..... 44
 Registration Procedures..... 21
 Religious Studies..... 63
 Repeating Courses..... 21
 Requirements for Graduation..... 26
 Residence Facilities..... 9, 17
 Residency Classification..... 7
 Resident Admissions..... 6
 Residence Life..... 17
 Resource Management..... 49
 Room and Board..... 9, 17

S

SAT..... 6
 Scholarship Day..... inside front cover
 Scholarships..... 12
 Science..... 26, 29
 Secondary Education..... 61
 Second Degree..... 30
 Self-Acquired Competency Credit..... 10, 22
 Seminar Courses..... 69
 Skills Certificate..... 26
 Social Science..... 26, 29, 64, 99

Social Science and Education Division..... 59
 Social Work..... 64
 Sociology..... 64, 98
 Sophomore..... 3
 Spanish..... 46, 99
 Special Course Numbers..... 69
 Special Learning Opportunities..... 14
 Sports..... 18
 Staff:
 Professional..... 103
 Classified Support..... 104
 Standards of Progress..... 11
 Statistics..... 99
 Student Activities and Organizations..... 18
 Student Appeals..... 23
 Student Center..... 18
 Student Conduct Code..... 23
 Student Government..... 18
 Student Life..... 17
 Student Success Programs..... 19
 Subject Area Designators..... 69
 Suspension..... 24

T

Technical Education..... 38
 Technology..... 31
 Tech Prep..... 15
 Telephone Numbers..... 3
 Theatre..... 99
 Theme Houses..... 14
 TIG Welding..... 38
 Topics Courses..... 69
 Transcripts..... 10, 20
 Transfer Assistance..... 19
 Transfer Credit from Northwest..... 19, 24
 Transfer Credit to Northwest..... 6
 Transfer Agreements..... 8
 Transfer Student Admissions..... 6
 Travel and Tourism..... 35
 Trustees..... 5, 101
 Tuition..... 9, 10
 Tuition Scholarship..... 8
 Tuition Refund Policy..... 10
 Tuition Waiver..... 11
 Tutoring..... 19

U

Undergraduate Course Prerequisites..... 69

V

Veterans' Benefits..... 12, 20
 Visual and Performing Arts..... 26, 29
 Visual and Performing Arts Division..... 65

W

WebAdvisor..... 21
 Web/Broadcasting Journalism..... 42
 Web Design and Application..... 42, 66
 Welding Technology..... 38, 99
 Wellness Education..... 26, 29

Western Interstate Commission for
 Higher Education..... 25
 Western Undergraduate Exchange Program..... 8
 WICHE..... 25
 Wildlife Management..... 49
 Withdrawals..... 10, 21
 Word Processing..... 37
 Work Force Development..... 15
 Workshop Courses..... 69
 Work Study..... 11
 Writing..... 45
 WUE Tuition Scholarship..... 8
 Wyoming Department of Employment..... 16
 Wyoming Government..... 26
 Wyoming Resident Admissions..... 6

Z

Zoology..... 100

Courses Meeting General Education Requirements

ENGLISH

ENGL 1010—English I: Introduction to Composition
ENGL 1020—English II: Introduction to Literature
ENGL 2010—Technical Writing
ENGL 2017—Introduction to Research
ENGL 2030—Critical Reading and Writing
BADM 1020—Business Communication (AAS only)

HUMANITIES

All English courses numbered 2000 or above.
All foreign language courses of three (3) or more credits.
All humanities courses. [HUMN 2460 Field Studies: (1-3) might not be accepted for transfer by senior institutions.]
All philosophy courses.
CO/M 1010—Public Speaking (3)
CO/M 1030—Interpersonal Communication (3)
CO/M 1040—Introduction to Human Communication (3)
CO/M 2090—Introduction to Persuasion (3)
CO/M 2110—Nonverbal Communication (3)
CO/M 2120—Small Group Communication (3)
CO/M 2125—Family Communication (3)
CO/M 2150—Argumentation (3)
CO/M 2250—Organizational Communication (3)
GRAR 2650—Literary/Art Magazine Production (3)
GRAR 2750—Magazine Editing and Management (3)
HIST 1110—Western Civilization I (3)
HIST 1120—Western Civilization II (3)
JOUR 1000—Introduction to Mass Media (3)
JOUR 2250—Literary/Art Magazine Production (3)
JOUR 2270—Magazine Editing and Management (3)

MATHEMATICS

All college-level courses in mathematics and statistics.
BADM 1005 and MATH 1510 for AAS programs only. For nursing students: NRST 1610 (2 credits), NRST 1620 (½ credit), NRST 1630 (½ credit).

MULTI-CULTURAL AWARENESS

AGEC 1010—Agricultural Economics I (3)
ANTH 1200—Introduction to Cultural Anthropology (3)
ANTH 1300—Introduction to Archaeology (3)
ANTH 2200—World Ethnography (3)
ANTH 2210—North American Indian Cultures (3)
ANTH 2350—Biblical Archaeology (3)
ART 1010—Introduction to Art (3)
ART 2010—History of Art I (3)
ART 2020—History of Art II (3)
BADM 1020—Business Communication (3)
BUSN 2000—Introduction to International Business (3)
CO/M 2110—Nonverbal Communication (3)
ENGL 2170—The Bible as Literature (3)
ENGL 2210—English Literature I (3)
ENGL 2220—English Literature II (3)
ENGL 2230—Introduction to Shakespeare (3)
ENGL 2280—Introduction to Mythology (3)
Foreign language—any course of 3 credit hours or more.
G&R 1000—Introduction to Geography (3)
G&R 1250—Geography of Travel and Tourism (3)

HIST 1110—Western Civilization I (3)
HIST 1120—Western Civilization II (3)
HIST 2070—The Holocaust: A Survey (3)
HIST 2112—19th Century Europe (3)
HIST 2115—20th Century Europe (3)
HIST 2120—Ancient Greece (3)
HIST 2130—Ancient Rome (3)
HIST 2140—Ancient Near East (3)
HIST 2290—North American Indians (3)
HUMN 2420—Introduction to Cross-Cultural Studies (3)
HUMN 2445—U.S. Culture and Language for Foreign Students (4)*
HUMN 2460—Field Studies: (1-3) [HUMN 2460 Field Studies: (1-3) might not be accepted for transfer by senior institutions.]
MUSC 1000—Introduction to Music (3)
MUSC 2010—American Popular Music (3)
MUSC 2050—Music History Survey I (3)
MUSC 2055—Music History Survey II (3)
PHIL 2311—Philosophy of Religion (3)
POLS 2010—Comparative Government (3)
POLS 2310—Introduction to International Relations (3)

* Only for students whose first language is not English.

SCIENCE

All college-level courses in ASTR, BIOL, CHEM, GEOL, MOLB, PHYS, ZOO worth (4-5) credit hours, AECL 2010, and AECL 2020.

SOCIAL SCIENCE

All ANTH, CMRJ, ECON, G&R, HIST (except HIST 1110 and 1120), POLS, PSYC, SOC courses, and AGECE 1010 and AGECE 1020.

VISUAL AND PERFORMING ARTS

ART 1010—Introduction to Art (3)
ART 1050—Drawing I (3)
ART 1060—Drawing II (3)
ART 1110—Design: 2-D (3)
ART 1120—Design: 3-D (3)
ART 1250—Beginning Waterbased Media I (3)
ART 2010—Art History I (3)
ART 2020—Art History II (3)
ART 2050—Life Drawing I (3)
ART 2055—Art in the Wild (3)
ART 2090—Printmaking I (3)
ART 2100—Computer Graphics I (3)
ART 2210—Painting I (3)
ART 2220—Painting II (3)
ART 2310—Sculpture I (3)
ART 2320—Sculpture II (3)
ART 2410—Ceramics I (3)
ART 2420—Ceramics II (3)
ART 2430—Advanced Ceramics (3)
ENTK 1510—Drafting I (3) [Does not count for Drafting Specialization.]
MUSC 1000—Introduction to Music (3)
MUSC 1030—Written Theory I (3)
MUSC 1035—Aural Theory I (1)
MUSC 1040—Written Theory II (3)
MUSC 1045—Aural Theory II (1)
MUSC 2010—American Popular Music (3)
MUSC 2035—Aural Theory III (1)
MUSC 2045—Aural Theory IV (1)
MUSC 2050—Music History Survey I (3)
MUSC 2055—Music History Survey II (3)
MUSC 2057—Jazz History (3)
All applied music lessons (2 credits maximum)
PEAC 1330 (one credit only)
THEA 2120—Oral Interpretation (3)

WELLNESS EDUCATION

(No individual course may be repeated for credit.)
This requirement may be waived only for physical disability verified by a physician's report. The Wellness Education requirement may be completed in one of three different ways:

OPTION 1

Two credits of any activity-based courses.* Activity-based courses include the following:

PEAC courses
PEAT courses
OEAC courses
Dance courses** with a physical education activity designator [PEAC] (one credit only)
OEPR 1100—Introduction to Adventure Education (one credit only)
OEPR 1250—River Studies (one credit only)
OEPR 1200—Winter Outdoor Survival

OPTION 2

One credit of activity-based courses (see above) and one credit of approved nonactivity-based courses.

Approved nonactivity-based courses include:

EDCI/OEPR 2450—Introduction to Adventure Education (2)
HLED courses
FCSC 1140—Nutrition (2)
FCSC 1141—Principles of Nutrition (3)
NRST 1660—Basic Emergency Care (3)
NRST 1990—Topics: (1-3)
PEPR 1040—Sport First Aid (2)

OPTION 3

One of the following courses:

HLED 1270—Wellness (3)
HLED 1271—Diet and Exercise (2)

* One hour of activity-based course work is waived for students taking an AAS in the Equine field.

** Only one credit of PEAC 1330—Dance Ensemble may be used as an activity-based credit.

Below College-Level Courses

Courses listed below are not college-level courses.

DVST 0104—Conversational English for Non-native English Speakers (3)
DVST 0106—Reading and Writing for Non-native English Speakers (3)
DVST 0510—Fundamentals of Reading I (1-3)
DVST 0520—Fundamentals of Reading II (1-3)
DVST 0600—Basic Writing I (3)
DVST 0610—Basic Writing II (3)
DVST 0890—Basic Skills Development (1)
FREN 1050—Conversational French I (1-2)
MATH 0900—Prealgebra (3)
MATH 0920—Beginning Algebra (5)
MATH 0930—Intermediate Algebra (5)
SPAN 1050—Conversational Spanish I (1-2)
SPAN 1060—Conversational Spanish II (1-2)

All Degree Worksheet

Student _____ Specialization / Degree _____ Date _____

Only college-level courses count toward the degree. At least 64 total credits are required. See pages 26-30 for more details.

GENERAL EDUCATION REQUIREMENTS

Category	AA Credits	AS Credits	AAS Credits	Semester Taken	Credits Earned
GOVERNMENT POLS 1000 or HIST 1221, or HIST 1210 and HIST 1250	3-6	3-6	3-6	_____	_____
ENGLISH ENGL 1010 and one of the following ENGL 1020, ENGL 2010, ENGL 2017, ENGL 2030 or AAS Degree ONLY BADM 1020 <i>Courses may not be taken concurrently.</i>	6	6	6	_____	_____
MATHEMATICS AA or AS – MATH or STAT 1000 level or above except for MATH 1510 AAS – MATH or STAT 1000 level or above including MATH 1510 or BADM 1005	3		3	_____	_____
LAB SCIENCE <u>AA</u>	4			_____	_____
MATHEMATICS / LAB SCIENCE <u>AS</u> One course from each area At least one course must be a Lab Science		10		_____	_____
HUMANITIES / VISUAL AND PERFORMING ARTS <u>AA</u> At least once course from each area	9			_____	_____
HUMANITIES / VISUAL AND PERFORMING ARTS, AND SOCIAL SCIENCE <u>AS</u> Choose at least 2 different areas		9		_____	_____
LAB SCIENCE, HUMANITIES, VISUAL AND PERFORMING ARTS, AND SOCIAL SCIENCE <u>AAS</u> Choose at least 2 different areas			6	_____	_____
SOCIAL SCIENCE <u>AA</u>	6			_____	_____
MULTI-CULTURAL AWARENESS Three credits may be used to fulfill, Government, Humanities, Social Science or Visual and Performing Arts credit	6	1-4		_____	_____
WELLNESS	2	2	2	_____	_____
GENERAL EDUCATION TOTALS —	36-42	31-37	20-23		

Record Capstone Course, Core Requirements, Core Elections and Transfer and General Electives on back side

Student _____ Anticipated Graduation Date _____

CAPSTONE COURSE
Required for all degrees

CORE REQUIREMENTS

Course	Semester Taken	Credits Earned
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total _____

CORE ELECTIVES

Course	Semester Taken	Credits Earned
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total _____

TRANSFER AND GENERAL ELECTIVES

Course	Semester Taken	Credits Earned
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total _____

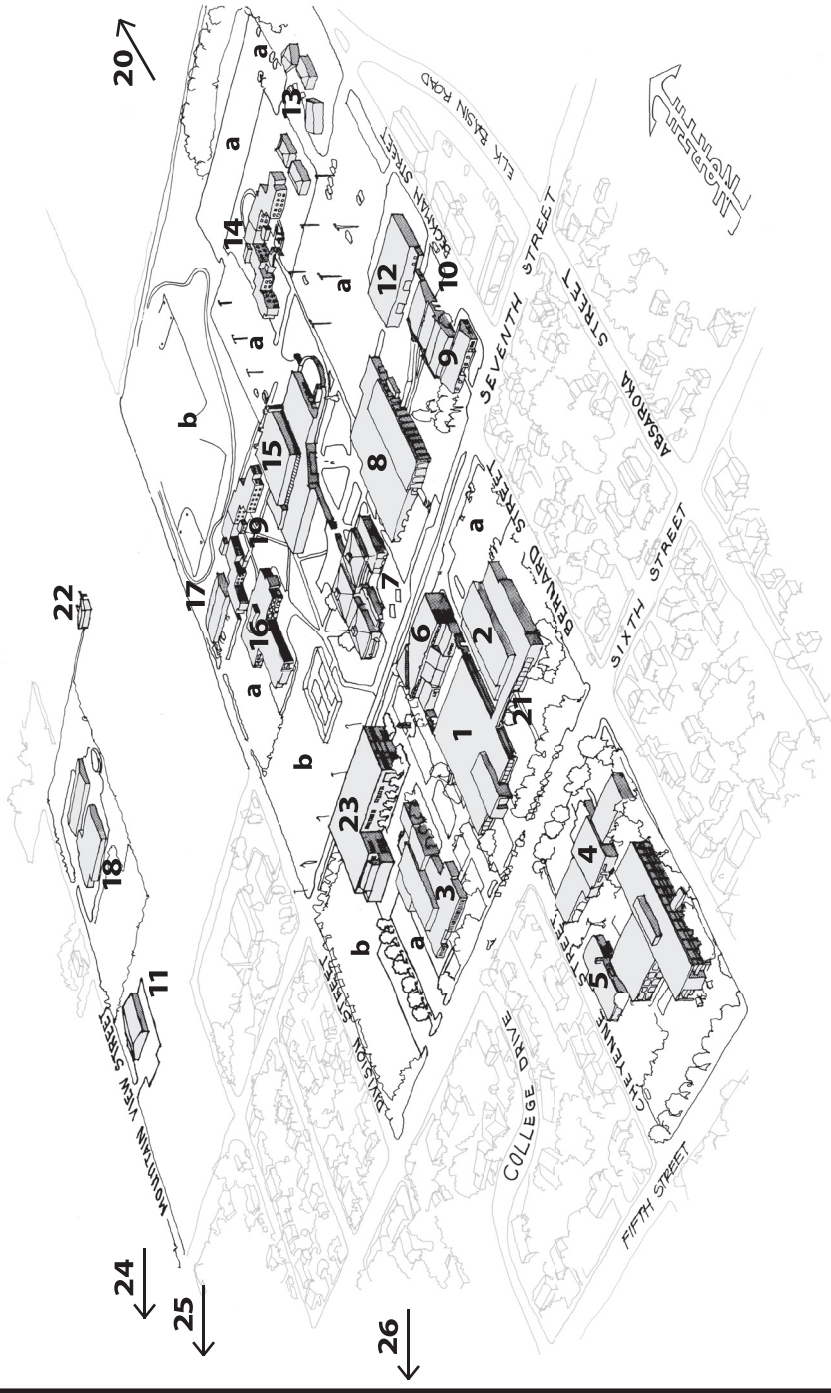
Total Credits _____

Advisor's Name _____ Office _____ Phone _____

LEGEND

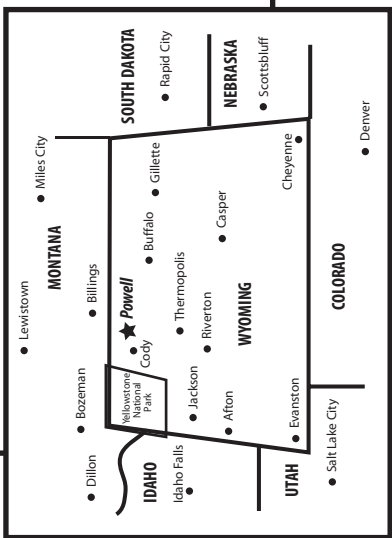
- 1 Orendorff Building — ORB
- 2 Johnson Fitness Center — JFC
- 3 Nelson Performing Arts Center — NPA
- 4 Colter Hall / Student Success Center — CH
- 5 Frisby Building — FRS
- 6 Hinckley Library / Greenhouse — HL
- 7 DeWitt Student Center / Trapper Room — DSC
- 8 Fagerberg Building — FAB
- 9 Child Care Center — CCC
- 10 Nursing Building — NU
- 10 Workforce Alliance Center — WAC
- 11 Physical Plant — PP
- 12 Oliver Building — OLB
- 13 Trapper Village Main Apartments — TV
- 14 Ashley Hall — ASH
- 15 Cabre Building — CB
- 16 Lewis and Clark Hall — LC
- 17 Vehicle Maintenance
- 18 Equine Center — EC
- 19 Cody Hall — CODH
- 20 Stock Agriculture Pavilion — SAP
(Approximate distance 1.5 miles north)
- 21 Moyer Building — MB
- 22 Observatory — OBSV
- 23 Science and Mathematics Building — SM
- 24 West Campus — WC
Center for Technology and Innovation — CTI
- 25 Trapper Village West Apartments — TVW
Cody Center — COC
(Approximate distance 23 miles southwest)
- 26 Mickelson Field Station — MFS


a Parking **b** Activity Area



Northwest College

POWELL, WYOMING





307.754.6000

Enrollment Services 1.800.560.4NWC (4692)

Admissions, Financial Aid, & Registration Services

307.754.6101

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Through a superior teaching, learning, and living environment, Northwest College will be a dynamic and distinguished educational leader that shapes a positive future for students and the many communities it serves.